

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: STREETWORKS

Report Number: P271214

Luminaire Tested: **XNV-AF-01-LED-U-AFL-7027-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P271214
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24160)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: XNV-AF-01-LED-U-AFL-7027-600
Description: XNV ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2700K, 615mA LIGHTSQUARE WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3547 lumens
Efficiency: N/A
Efficacy: 104.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B1 - U0 - G1

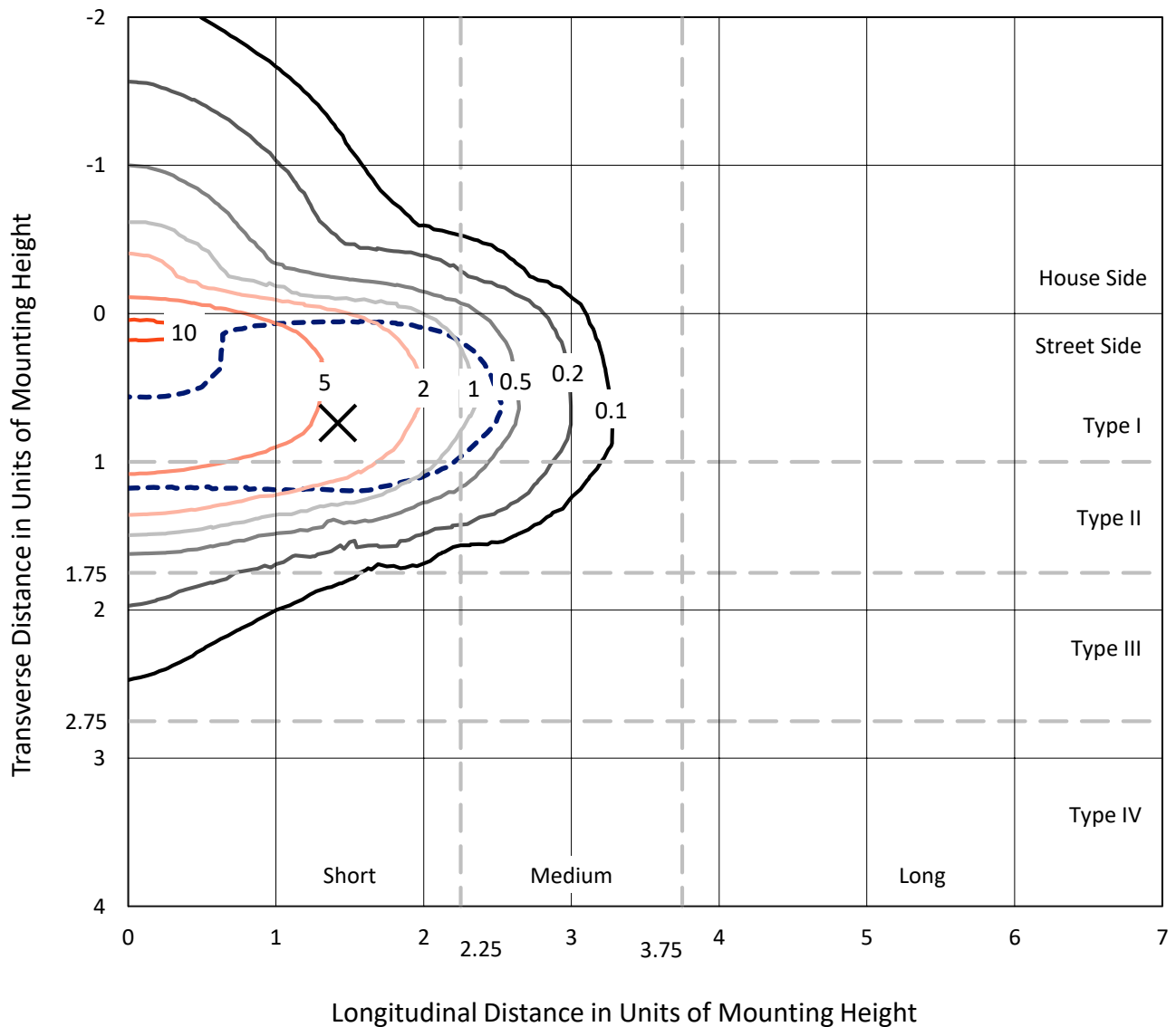
Input Watts (W): 34
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P271214
 CATALOG NUMBER: XNV-AF-01-LED-U-AFL-7027-600

Iso-Footcandle Lines of Horizontal Illumination

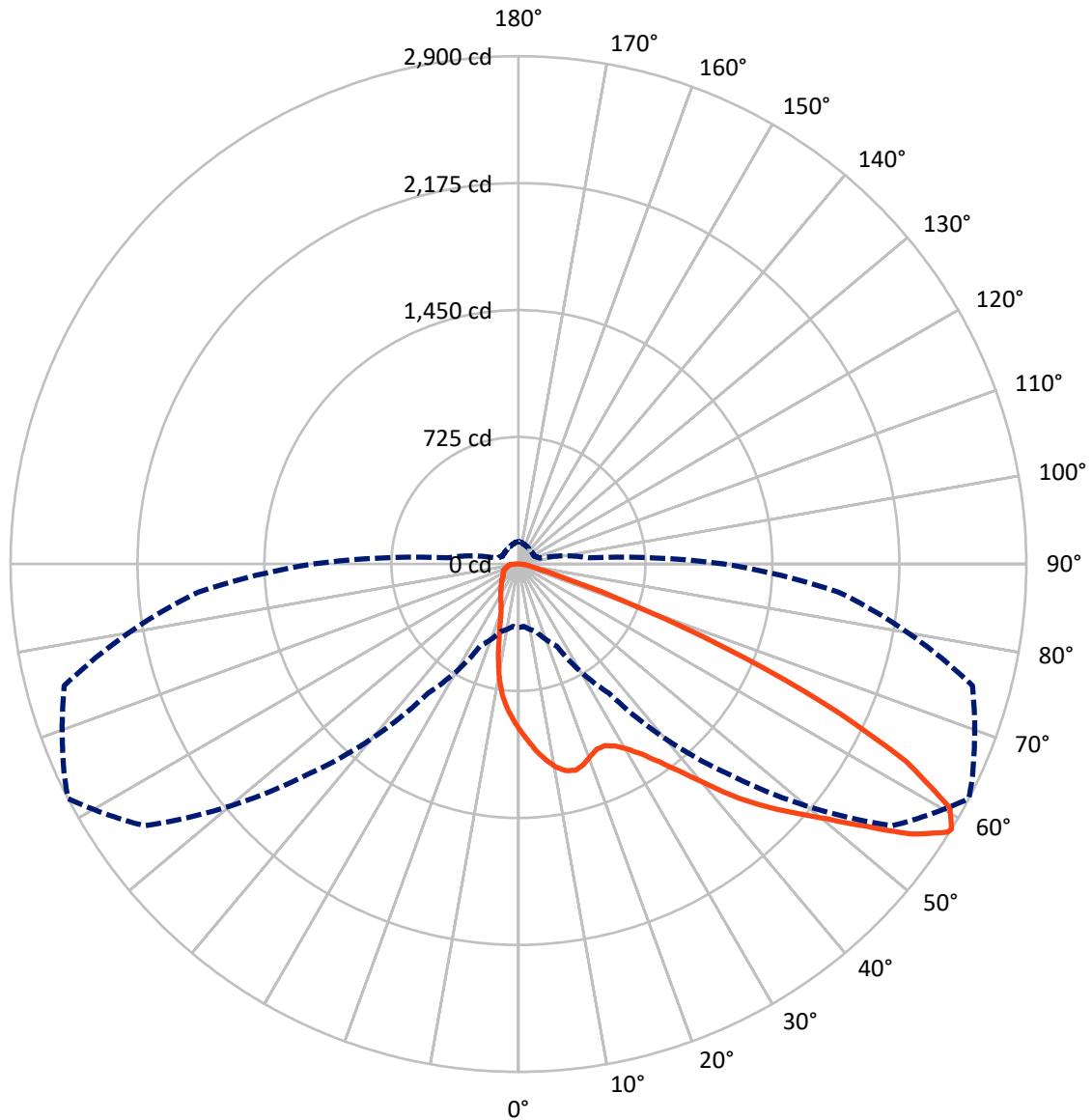
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 11.1 fc
 Type II - Short - Full Cutoff

REPORT NUMBER: P271214
CATALOG NUMBER: XNV-AF-01-LED-U-AFL-7027-600

Luminous Intensity Polar Plot



— Vertical Plane Through 62.5-Deg Lateral - - - Horizontal Cone Through 58-Deg Vertical

REPORT NUMBER: P271214

CATALOG NUMBER: XNV-AF-01-LED-U-AFL-7027-600

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	544.6	0.0	544.6
	% Fixture	15.4	0.0	15.4
Street Side	Lumens	3002.5	0.0	3002.5
	% Fixture	84.6	0.0	84.6
Total	Lumens	3547.0	0.0	3547.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	84.6	2.4
10°-20°	213.6	6.0
20°-30°	346.2	9.8
30°-40°	552.8	15.6
40°-50°	804.0	22.7
50°-60°	841.3	23.7
60°-70°	512.9	14.5
70°-80°	143.4	4.0
80°-90°	48.1	1.4
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	3547.0	100.0
0°-180°	3547.0	100.0



REPORT NUMBER: P271214

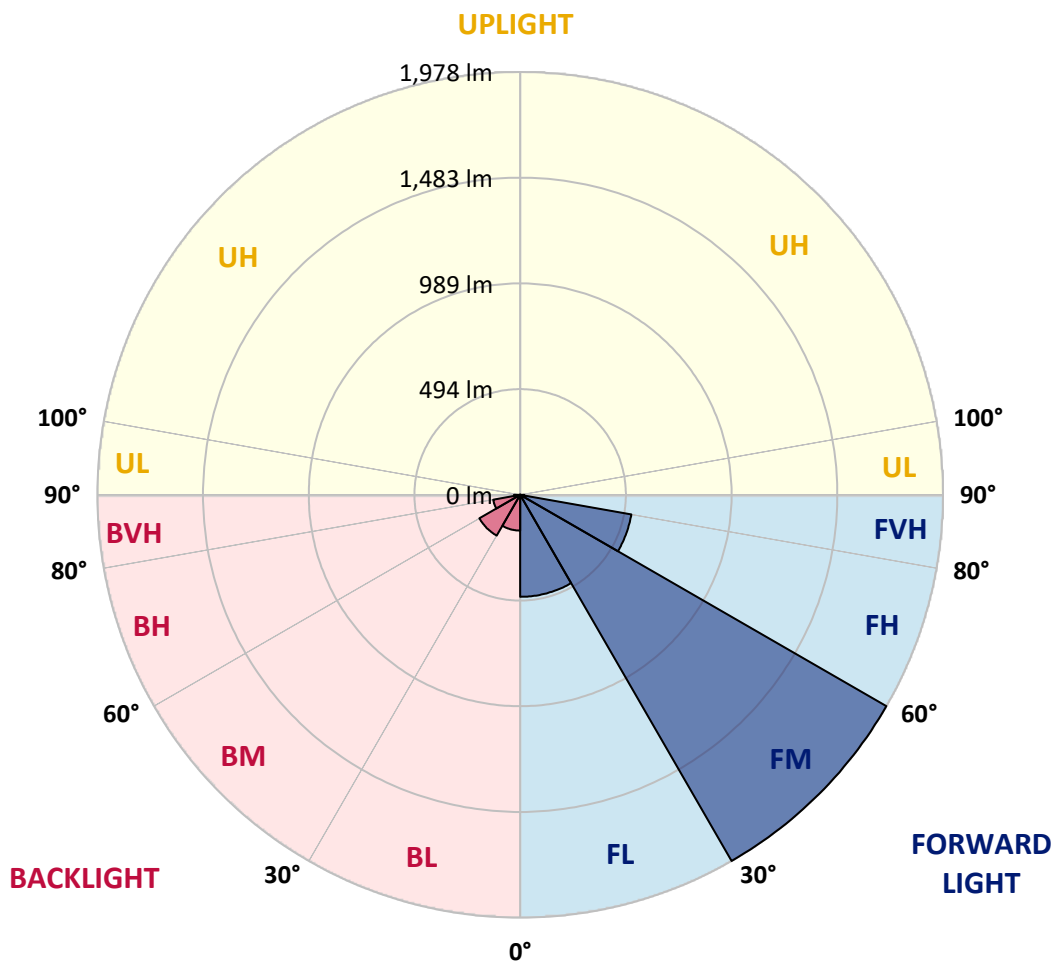
CATALOG NUMBER: XNV-AF-01-LED-U-AFL-7027-600

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	477.1	13.5			
FM	(30°-60°)	1977.9	55.8			
FH	(60°-80°)	528.1	14.9			G0/660
FVH	(80°-90°)	19.3	0.5			G1/100
BL	(0°-30°)	167.4	4.7	B1/500		
BM	(30°-60°)	220.2	6.2	B1/1000		
BH	(60°-80°)	128.2	3.6	B1/500		G1/500
BVH	(80°-90°)	28.7	0.8			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type II Short





REPORT NUMBER: P271214

CATALOG NUMBER: XNV-AF-01-LED-U-AFL-7027-600

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	62.5°	65°	75°	85°
0°	947.1	947.1	947.1	947.1	947.1	947.1	947.1	947.1	947.1	947.1	947.1
2.5°	1074.9	1074.4	1065.2	1059.2	1052.2	1035.7	1019.2	1007.1	1000.9	977.1	954.1
5°	1163.8	1161.1	1156.1	1149.7	1140.4	1119.7	1093.7	1071.4	1062.5	1020.5	978.1
7.5°	1116.9	1121.1	1136.8	1154.5	1173.1	1174.5	1156.1	1129.4	1119.7	1063.5	1001.4
10°	986.7	984.9	1004.7	1039.2	1100.7	1161.4	1191.8	1178.7	1168.5	1104.2	1024.6
12.5°	947.3	946.9	950.1	959.0	997.6	1080.9	1182.7	1211.0	1207.5	1147.5	1049.5
15°	959.2	959.7	959.5	960.6	971.2	1011.0	1132.0	1222.0	1233.1	1190.3	1074.7
17.5°	997.6	996.0	991.2	985.8	987.3	1001.6	1077.2	1203.3	1236.5	1228.3	1096.0
20°	1056.8	1056.8	1043.7	1028.9	1019.0	1022.2	1054.3	1171.4	1220.2	1260.7	1112.0
22.5°	1131.1	1132.1	1112.9	1085.8	1063.7	1055.1	1067.5	1147.7	1200.2	1290.7	1126.1
25°	1223.2	1223.0	1194.8	1156.1	1121.1	1101.0	1100.7	1148.8	1193.9	1325.7	1141.0
27.5°	1337.4	1327.1	1294.2	1239.0	1189.5	1158.8	1144.8	1176.7	1207.1	1368.7	1161.0
30°	1466.3	1455.7	1412.6	1341.7	1274.7	1229.7	1206.7	1225.1	1246.9	1423.5	1191.2
32.5°	1593.8	1596.2	1545.7	1465.6	1379.5	1316.1	1282.1	1293.3	1308.7	1490.4	1231.9
35°	1780.4	1780.1	1714.1	1614.2	1511.8	1424.2	1380.9	1386.9	1400.8	1584.8	1289.1
37.5°	1919.6	1917.3	1874.9	1786.4	1671.2	1565.9	1503.5	1504.4	1516.2	1703.5	1364.4
40°	1933.8	1933.3	1933.2	1920.4	1841.7	1742.4	1664.2	1648.0	1652.9	1829.4	1444.6
42.5°	1825.4	1841.5	1888.1	1959.6	1981.4	1929.3	1855.3	1819.2	1808.5	1973.8	1529.2
45°	1670.8	1679.0	1760.7	1921.1	2051.6	2104.9	2049.3	1972.9	1954.8	2114.4	1598.2
47.5°	1599.1	1595.5	1642.7	1817.6	2044.8	2244.5	2248.5	2123.6	2092.7	2235.7	1656.8
50°	1445.0	1440.3	1499.9	1665.3	1970.0	2313.9	2453.2	2287.5	2230.6	2351.0	1710.2
52.5°	1138.0	1133.5	1213.5	1426.6	1802.3	2288.1	2625.7	2488.8	2391.7	2462.1	1759.8
55°	740.5	740.9	817.2	1036.9	1458.5	2136.9	2706.6	2721.4	2612.6	2573.1	1799.8
57.5°	407.7	403.9	458.2	593.2	1003.3	1793.5	2639.2	2888.9	2832.3	2668.4	1828.9
58°	362.5	358.1	399.9	516.3	899.7	1696.5	2605.3	2899.6	2860.5	2684.1	1833.1
60°	258.3	250.7	244.2	291.1	518.3	1223.2	2379.2	2830.6	2868.6	2715.7	1829.0
62.5°	217.7	209.0	185.9	184.2	244.1	598.4	1881.5	2486.0	2592.1	2643.2	1764.8
65°	202.2	193.6	163.1	152.4	165.6	258.3	1163.5	1919.6	2061.5	2391.1	1603.0
67.5°	191.1	180.9	148.3	134.1	136.8	154.5	493.7	1255.4	1420.0	1864.6	1286.1
70°	181.1	169.8	136.5	120.2	117.9	117.5	192.9	655.6	814.0	1220.2	861.5
72.5°	169.8	158.7	126.1	108.7	103.8	95.3	115.9	270.8	371.3	598.1	394.9
75°	153.4	144.3	114.7	99.2	90.6	77.3	85.6	130.0	160.1	229.0	183.3
77.5°	135.0	127.6	102.9	91.1	79.8	63.2	65.3	88.0	98.9	129.0	106.2
80°	95.5	98.3	89.8	80.3	70.2	50.9	50.3	64.5	71.0	86.6	71.3
82.5°	65.8	67.8	73.1	63.4	56.8	39.6	37.0	44.7	48.1	52.3	34.6
85°	47.0	45.6	50.8	45.5	41.7	25.2	23.7	28.3	30.4	31.9	16.6
87.5°	28.6	28.3	29.3	23.4	21.6	12.8	11.8	13.6	14.5	14.0	7.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P271214

CATALOG NUMBER: XNV-AF-01-LED-U-AFL-7027-600

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	947.1	947.1	947.1	947.1	947.1	947.1	947.1	947.1	947.1	947.1	947.1
2.5°	945.5	934.6	910.9	891.8	871.3	855.5	839.7	830.9	821.1	815.7	814.9
5°	955.8	933.8	883.3	836.2	787.9	744.4	701.8	670.3	644.7	630.0	629.2
7.5°	967.5	932.6	854.6	773.3	687.3	601.7	526.0	472.7	438.3	422.4	421.2
10°	976.3	927.9	819.9	693.2	556.9	443.9	375.1	343.6	333.2	330.5	330.0
12.5°	987.0	924.6	775.9	590.5	425.6	337.9	317.0	315.0	317.2	318.5	318.8
15°	996.8	918.2	716.7	476.8	333.2	301.9	302.4	306.6	311.1	313.0	313.2
17.5°	1001.6	902.4	639.0	375.8	291.5	285.8	290.8	296.4	300.5	301.9	301.9
20°	1001.6	877.3	548.7	304.3	269.9	270.8	277.0	281.3	282.2	280.9	280.2
22.5°	997.4	845.9	460.9	265.5	252.1	256.2	261.1	258.3	247.8	239.8	238.3
25°	993.5	809.0	376.4	241.9	236.6	242.1	240.0	220.4	204.5	196.2	194.8
27.5°	987.3	764.2	306.0	222.3	221.4	226.0	206.3	187.0	179.1	174.7	173.8
30°	985.8	715.6	256.0	205.1	206.6	200.4	177.8	171.5	169.8	167.4	166.2
32.5°	990.9	667.0	224.8	190.9	192.4	172.0	163.4	164.3	164.0	160.9	159.9
35°	1004.9	619.8	204.9	178.0	173.6	154.1	155.1	157.8	157.8	154.1	152.7
37.5°	1029.3	576.0	192.1	167.2	151.9	144.7	147.6	151.2	151.2	148.5	147.4
40°	1055.1	533.1	182.6	158.6	138.1	138.2	141.3	143.9	144.9	145.4	144.5
42.5°	1078.8	488.8	172.5	149.2	132.0	133.5	134.7	136.8	141.5	144.5	144.1
45°	1092.5	444.2	161.3	137.7	127.6	128.4	127.9	131.4	137.0	141.7	141.7
47.5°	1105.2	407.7	152.4	126.1	123.4	123.4	122.2	125.8	130.9	136.4	136.8
50°	1117.1	383.9	145.9	117.3	118.1	117.5	117.0	120.4	127.2	133.8	135.0
52.5°	1129.3	376.0	140.0	110.9	112.6	111.7	112.2	116.8	124.5	131.4	132.6
55°	1146.3	381.2	134.1	106.4	107.3	107.1	108.9	114.2	121.0	127.9	128.4
57.5°	1167.3	399.7	129.0	103.0	102.1	103.6	106.4	111.5	118.1	126.3	127.0
58°	1171.6	404.1	128.2	102.1	101.1	103.0	106.0	110.9	117.7	126.3	127.0
60°	1178.0	419.9	125.9	100.4	97.3	100.9	104.5	109.4	116.8	127.5	128.7
62.5°	1147.0	423.0	125.3	98.5	93.3	97.7	102.0	107.4	115.9	131.2	134.1
65°	1039.5	391.0	120.6	95.1	90.0	95.3	99.7	106.2	118.5	142.6	143.9
67.5°	834.4	324.7	109.4	90.0	86.2	92.4	97.9	106.2	119.7	144.3	145.2
70°	573.7	244.1	95.1	84.5	81.7	88.9	97.3	108.7	115.9	136.5	133.8
72.5°	299.8	169.8	83.4	78.1	76.4	85.8	103.8	106.2	111.5	127.5	124.9
75°	150.9	115.5	73.4	70.7	70.4	84.7	116.2	102.1	106.9	120.0	125.8
77.5°	89.1	90.5	65.3	63.9	64.9	82.6	116.4	98.3	101.5	110.4	116.6
80°	60.9	74.6	59.2	58.7	59.6	76.0	107.3	93.3	95.3	104.5	111.1
82.5°	34.3	41.2	51.9	54.7	54.3	62.3	92.6	84.9	87.3	123.4	130.6
85°	16.6	24.9	43.5	51.3	46.4	41.4	75.4	75.4	76.0	88.5	89.7
87.5°	6.2	11.0	29.3	40.6	32.3	24.9	51.3	53.4	59.4	61.2	62.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)