

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: P199258

Luminaire Tested: **XNV-AF-01-LED-U-T3R-8030-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P199258
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24250)
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-T3R-8030-600
Description: XNV ROADWAY AND AREA LUMINAIRE
(1) 80 CRI, 3000K, 615mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3307 lumens
Efficiency: N/A
Efficacy: 97.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Medium - Full Cutoff
BUG Rating: B1 - U0 - G1

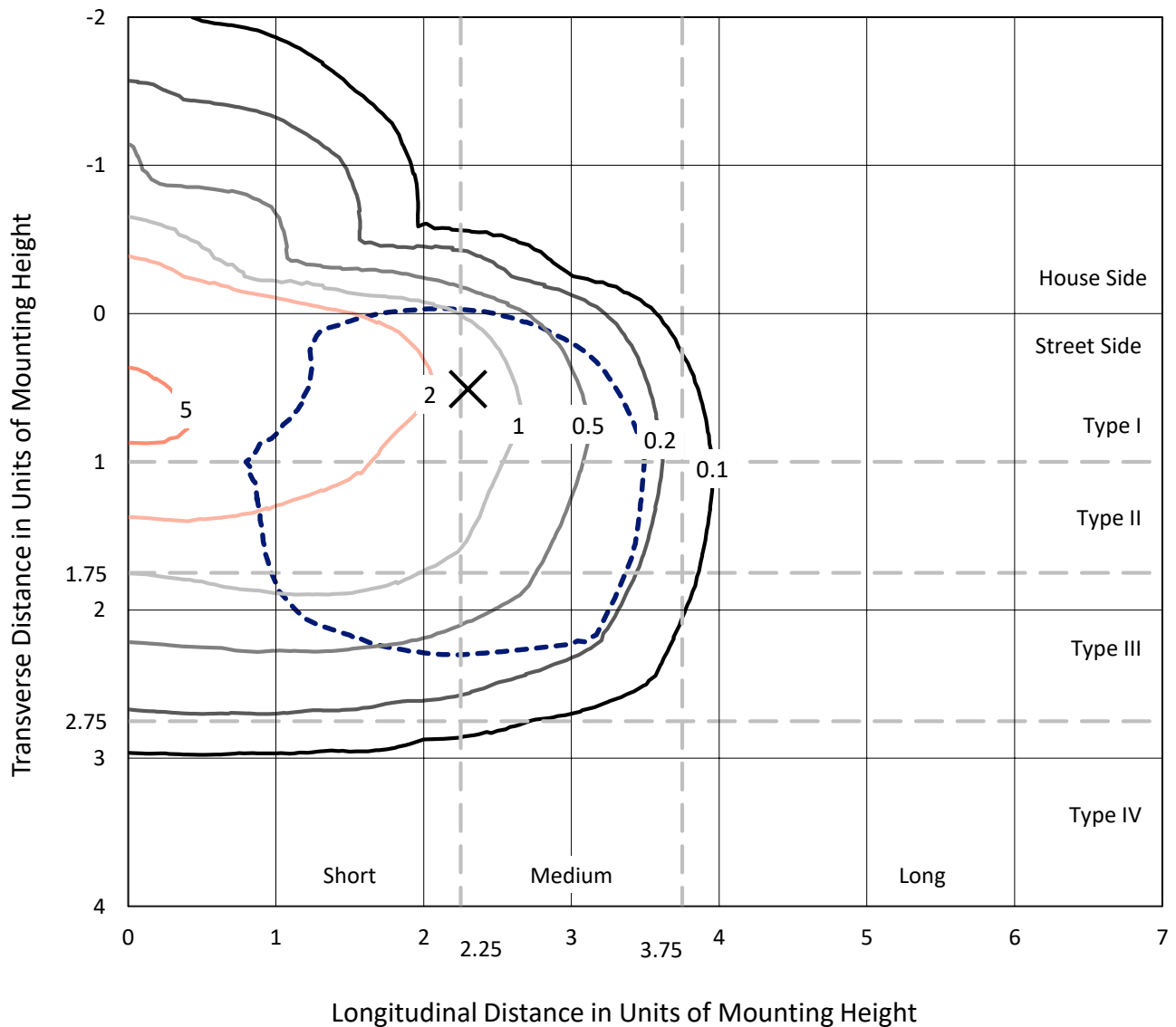
Input Watts (W): 34
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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 CATALOG NUMBER: XNV-AF-01-LED-U-T3R-8030-600

Iso-Footcandle Lines of Horizontal Illumination

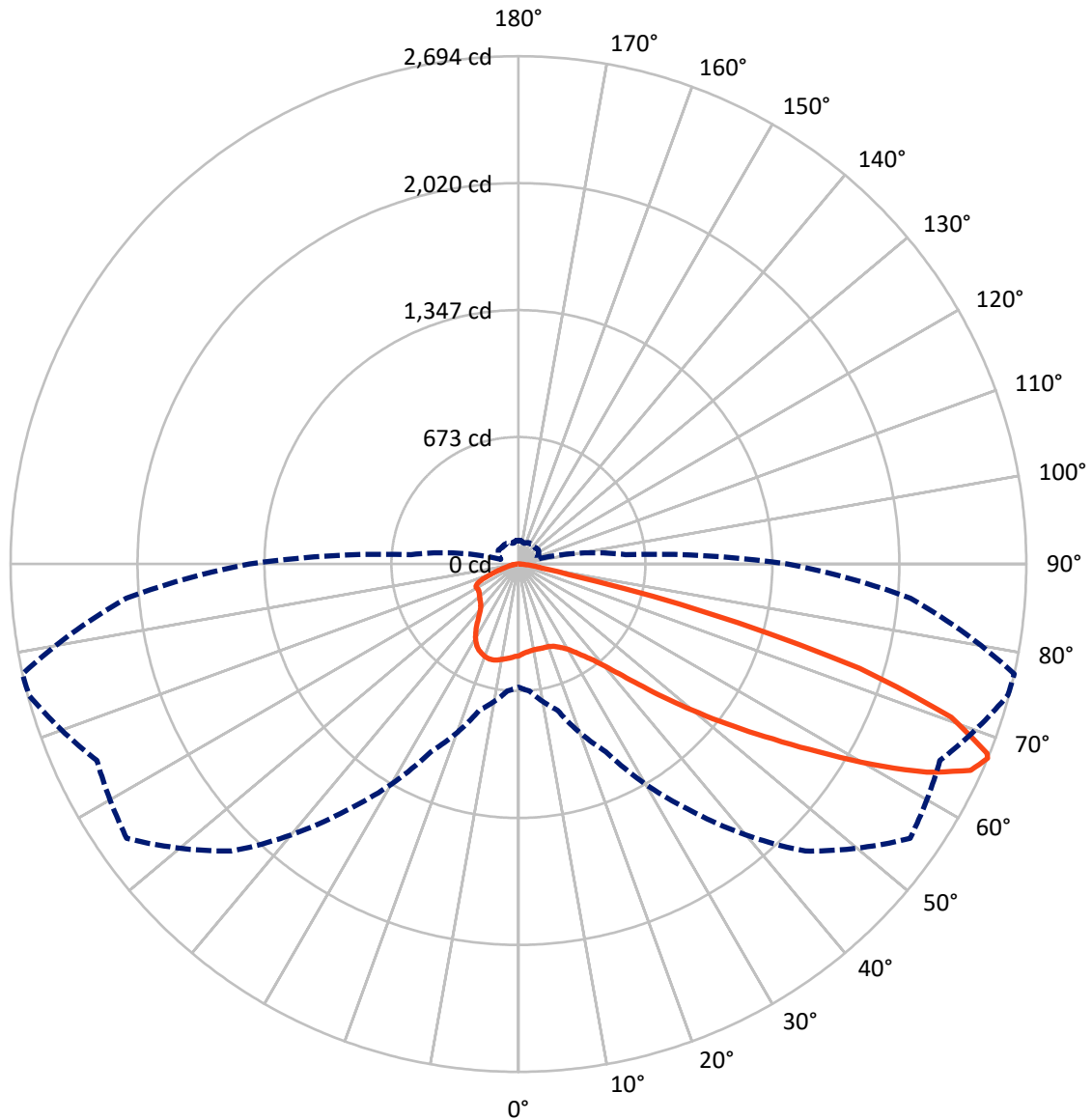
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 5.9 fc
 Type III - Medium - Full Cutoff

REPORT NUMBER: P199258
CATALOG NUMBER: XNV-AF-01-LED-U-T3R-8030-600

Luminous Intensity Polar Plot



— Vertical Plane Through 77.5-Deg Lateral - - - Horizontal Cone Through 67-Deg Vertical



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	568.3	0.0	568.3
	% Fixture	17.2	0.0	17.2
Street Side	Lumens	2738.7	0.0	2738.7
	% Fixture	82.8	0.0	82.8
Total	Lumens	3307.0	0.0	3307.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	43.3	1.3
10°-20°	120.0	3.6
20°-30°	204.0	6.2
30°-40°	326.3	9.9
40°-50°	502.3	15.2
50°-60°	697.0	21.1
60°-70°	929.7	28.1
70°-80°	442.4	13.4
80°-90°	41.9	1.3
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°	3307.0	100.0
0°-180°	3307.0	100.0



REPORT NUMBER: P199258

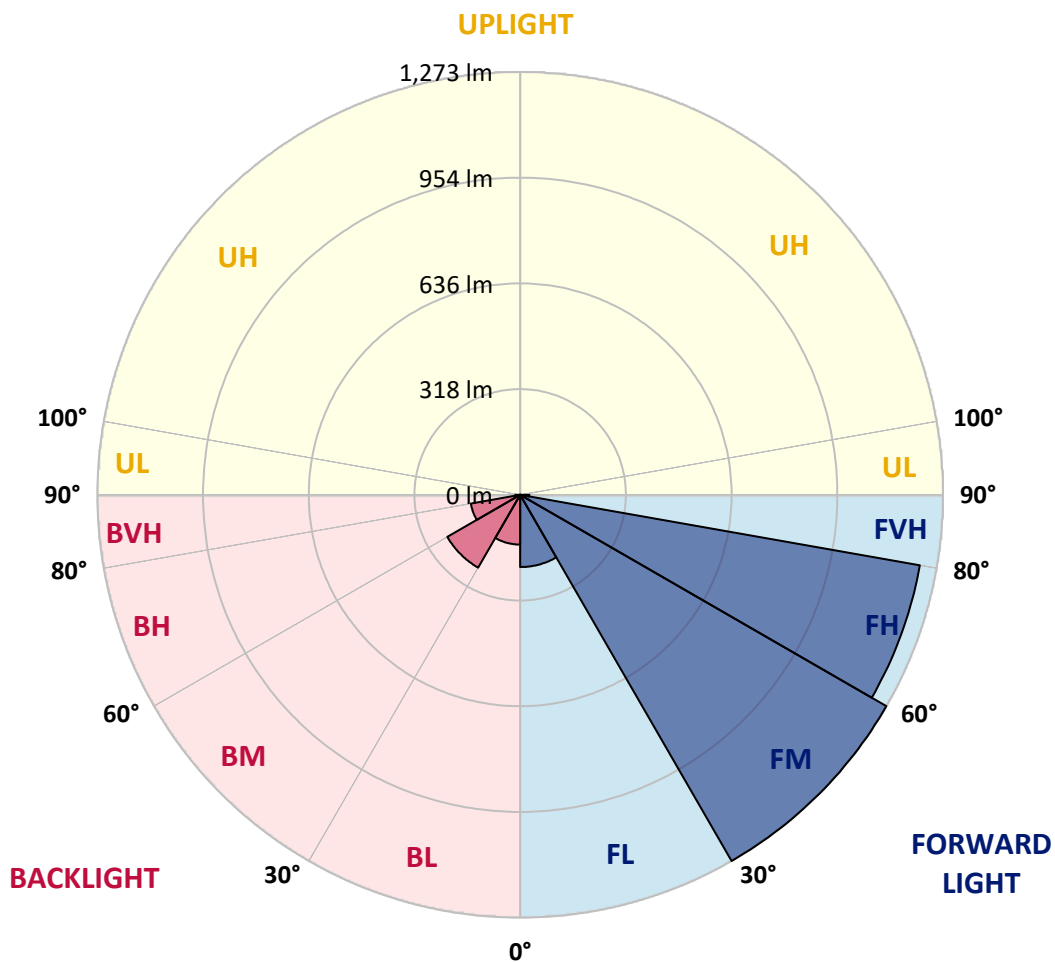
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	217.5	6.6			
FM	(30°-60°)	1272.6	38.5			
FH	(60°-80°)	1221.5	36.9			G1/1800
FVH	(80°-90°)	27.2	0.8			G1/100
BL	(0°-30°)	149.9	4.5	B1/500		
BM	(30°-60°)	253.0	7.7	B1/1000		
BH	(60°-80°)	150.7	4.6	B1/500		G1/500
BVH	(80°-90°)	14.7	0.4			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 III Medium





REPORT NUMBER: P199258

CATALOG NUMBER: XNV-AF-01-LED-U-T3R-8030-600

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77.5°	85°
0°	486.7	486.7	486.7	486.7	486.7	486.7	486.7	486.7	486.7	486.7	486.7
2.5°	436.4	438.5	438.7	444.6	447.3	454.0	461.4	467.9	473.6	475.7	479.3
5°	392.7	392.7	393.3	397.2	404.7	415.6	430.9	447.7	465.2	469.5	480.4
7.5°	369.8	370.2	370.6	374.5	380.4	390.0	405.3	428.2	457.5	464.6	483.6
10°	371.8	371.2	369.2	368.3	370.8	376.9	390.2	413.7	450.9	462.0	489.6
12.5°	403.9	402.7	395.9	386.1	377.1	374.9	384.1	406.4	447.9	462.0	499.6
15°	458.9	459.7	446.4	426.0	402.5	386.5	385.3	403.7	446.8	463.2	511.2
17.5°	530.4	530.9	512.5	482.8	443.8	410.9	393.7	403.7	446.8	464.4	522.5
20°	606.5	603.6	582.8	545.6	494.9	444.6	409.0	406.2	448.1	466.3	533.1
22.5°	671.7	669.0	647.2	608.1	550.1	484.5	429.7	414.3	454.8	473.8	548.0
25°	728.7	730.4	709.1	665.2	605.1	529.4	460.5	433.1	468.9	487.5	566.4
27.5°	798.0	795.0	770.4	728.5	661.7	576.0	499.2	456.9	485.7	504.1	588.9
30°	878.2	876.7	843.6	800.5	724.0	628.2	537.4	482.4	507.6	526.8	617.1
32.5°	975.5	975.2	939.7	886.7	794.1	687.0	582.6	517.4	539.4	558.9	654.5
35°	1085.6	1085.4	1048.6	978.7	874.9	752.2	635.7	559.9	578.9	599.3	699.1
37.5°	1162.1	1160.9	1141.6	1073.8	964.2	828.1	702.2	617.1	623.7	646.6	752.8
40°	1176.8	1184.2	1200.7	1160.6	1061.7	912.3	768.8	678.6	684.8	714.2	820.5
42.5°	1160.9	1170.5	1225.4	1236.7	1159.2	1014.3	852.2	763.9	771.7	808.2	900.0
45°	1147.0	1155.3	1224.2	1278.8	1255.5	1125.5	956.2	867.9	882.6	928.0	990.8
47.5°	1123.2	1131.0	1200.1	1286.4	1310.5	1232.6	1081.5	993.0	1018.4	1073.4	1094.2
50°	1122.0	1125.5	1167.2	1261.0	1329.5	1314.0	1220.3	1139.4	1178.2	1241.6	1208.7
52.5°	1090.9	1115.3	1153.1	1220.5	1329.9	1361.4	1357.1	1299.9	1359.7	1429.9	1334.2
55°	900.8	928.8	1106.1	1200.7	1327.4	1402.1	1482.0	1470.5	1564.2	1637.9	1474.8
57.5°	841.2	853.0	970.3	1206.6	1347.9	1469.3	1606.9	1653.9	1798.0	1878.5	1643.5
60°	824.8	837.3	943.2	1209.5	1403.3	1591.8	1776.3	1861.0	2072.9	2158.4	1835.0
62.5°	806.6	822.8	945.2	1212.2	1500.6	1772.9	2001.2	2085.6	2355.2	2431.5	2014.5
65°	753.5	774.9	907.4	1195.4	1607.1	2000.2	2298.4	2319.9	2588.5	2636.9	2122.8
67°	652.7	676.2	803.5	1098.5	1597.3	2153.3	2536.1	2466.4	2687.6	2693.5	2087.7
67.5°	620.8	645.1	768.4	1058.2	1569.3	2173.3	2578.2	2486.7	2686.8	2680.2	2054.9
70°	418.0	445.4	544.1	777.0	1258.8	2022.7	2568.0	2424.3	2510.6	2435.6	1765.5
72.5°	207.5	208.3	271.5	425.6	762.7	1450.7	2142.2	2074.0	2035.1	1893.5	1295.6
75°	100.0	101.8	128.2	188.1	321.5	749.0	1460.9	1399.4	1191.5	1031.7	648.4
77.5°	76.2	78.1	99.5	122.4	134.1	244.3	723.6	584.8	345.3	275.8	182.7
80°	58.9	62.3	84.0	94.0	88.7	97.9	227.5	179.1	134.3	123.3	90.6
82.5°	46.0	48.0	71.3	71.3	61.3	65.6	105.9	103.4	83.4	75.2	48.6
85°	32.5	36.6	57.4	53.1	40.3	40.7	63.4	60.7	42.9	34.5	19.0
87.5°	14.5	18.6	40.9	34.7	21.5	16.6	26.0	22.3	17.0	13.1	8.8
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: P199258

CATALOG NUMBER: XNV-AF-01-LED-U-T3R-8030-600

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	486.7	486.7	486.7	486.7	486.7	486.7	486.7	486.7	486.7	486.7	486.7
2.5°	483.4	486.7	491.8	494.9	499.0	500.6	502.2	505.1	507.3	506.7	505.7
5°	487.9	493.4	499.8	501.8	501.8	499.8	498.6	498.8	498.2	497.7	496.5
7.5°	494.5	502.0	506.5	504.5	498.2	490.2	482.6	478.1	473.8	471.2	472.0
10°	503.7	512.1	512.3	503.3	488.1	470.8	455.8	446.2	437.0	432.9	434.2
12.5°	517.0	525.3	518.2	498.8	472.2	445.0	417.6	397.8	380.0	375.7	374.5
15°	531.3	537.8	521.9	489.2	449.3	404.5	358.5	328.9	309.1	305.6	304.4
17.5°	543.7	547.4	520.0	472.0	413.1	342.6	289.0	269.0	264.9	267.0	267.0
20°	554.8	553.5	512.1	445.4	356.1	273.9	242.8	242.6	248.2	253.3	253.7
22.5°	568.7	559.1	499.4	406.0	288.0	228.5	223.2	228.5	234.7	240.4	241.0
25°	585.2	565.2	482.4	349.7	231.6	207.5	209.7	214.2	218.1	222.6	222.8
27.5°	601.8	569.9	458.5	283.7	200.9	194.0	196.4	198.3	199.3	202.2	202.2
30°	621.0	573.6	423.9	227.3	186.8	182.1	180.7	179.9	180.7	184.6	184.8
32.5°	645.1	580.1	376.7	195.0	180.3	173.7	166.4	162.3	165.2	172.1	173.3
35°	672.5	587.9	320.1	182.1	178.0	169.7	156.2	149.8	150.9	157.2	158.2
37.5°	706.9	597.9	264.3	179.1	180.3	169.3	151.5	142.5	138.0	138.2	138.0
40°	750.8	607.9	220.2	179.9	185.2	170.3	149.2	135.1	125.7	126.1	126.9
42.5°	796.8	614.5	192.1	182.3	191.1	171.7	148.4	128.0	119.8	126.7	133.1
45°	850.6	612.6	177.6	184.6	195.6	172.3	145.3	127.1	120.4	141.2	153.1
47.5°	912.3	604.6	169.5	185.6	196.8	172.1	143.1	129.8	125.5	161.7	175.2
50°	979.3	592.2	162.9	184.0	196.2	171.3	145.5	133.1	127.6	166.2	176.6
52.5°	1052.7	580.7	156.2	180.3	193.2	168.8	148.6	131.6	121.8	153.1	161.1
55°	1139.6	578.1	148.6	174.0	188.1	166.2	147.0	127.1	115.5	135.7	140.6
57.5°	1238.9	594.6	138.8	166.2	181.1	160.9	143.1	124.7	113.2	123.5	126.1
60°	1365.1	631.2	128.4	158.0	172.5	152.9	139.6	125.3	113.9	121.6	122.2
62.5°	1463.6	664.1	119.0	148.0	161.1	143.3	135.9	125.9	115.7	124.1	123.1
65°	1499.4	648.0	107.3	133.1	144.9	132.7	130.8	126.3	115.7	125.5	123.3
67°	1426.0	570.9	96.3	118.1	129.6	123.3	125.9	124.7	113.7	125.3	121.4
67.5°	1391.0	543.7	93.4	115.7	125.5	120.4	124.7	123.9	113.0	124.9	120.4
70°	1147.2	390.0	78.9	97.1	105.1	106.1	117.1	118.6	108.1	117.3	109.2
72.5°	816.2	244.1	68.1	75.2	84.8	90.8	106.9	111.4	101.6	102.0	95.3
75°	403.9	131.0	60.7	58.1	66.0	75.6	93.2	101.6	92.0	85.0	82.8
77.5°	136.3	74.2	51.3	46.8	51.3	60.7	77.3	88.7	81.2	72.0	70.5
80°	70.5	54.0	40.1	37.6	40.5	47.0	60.5	73.8	69.3	69.7	57.4
82.5°	43.9	32.9	28.8	28.6	30.7	36.0	44.6	59.9	59.5	50.9	37.0
85°	20.4	19.0	18.4	19.0	19.6	20.4	29.0	42.7	45.2	27.4	24.3
87.5°	8.6	8.4	7.4	8.0	8.8	8.6	11.7	18.2	25.3	17.2	15.7
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)