

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: P271240

Luminaire Tested: **XNV-AF-01-LED-U-SL3-7027-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P271240
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24263)
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-SL3-7027-HSS
Description: XNV ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2700K, 1050mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4460.8 lumens
Efficiency: N/A
Efficacy: 76.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Medium - Non-Cutoff
BUG Rating: B1 - U0 - G1

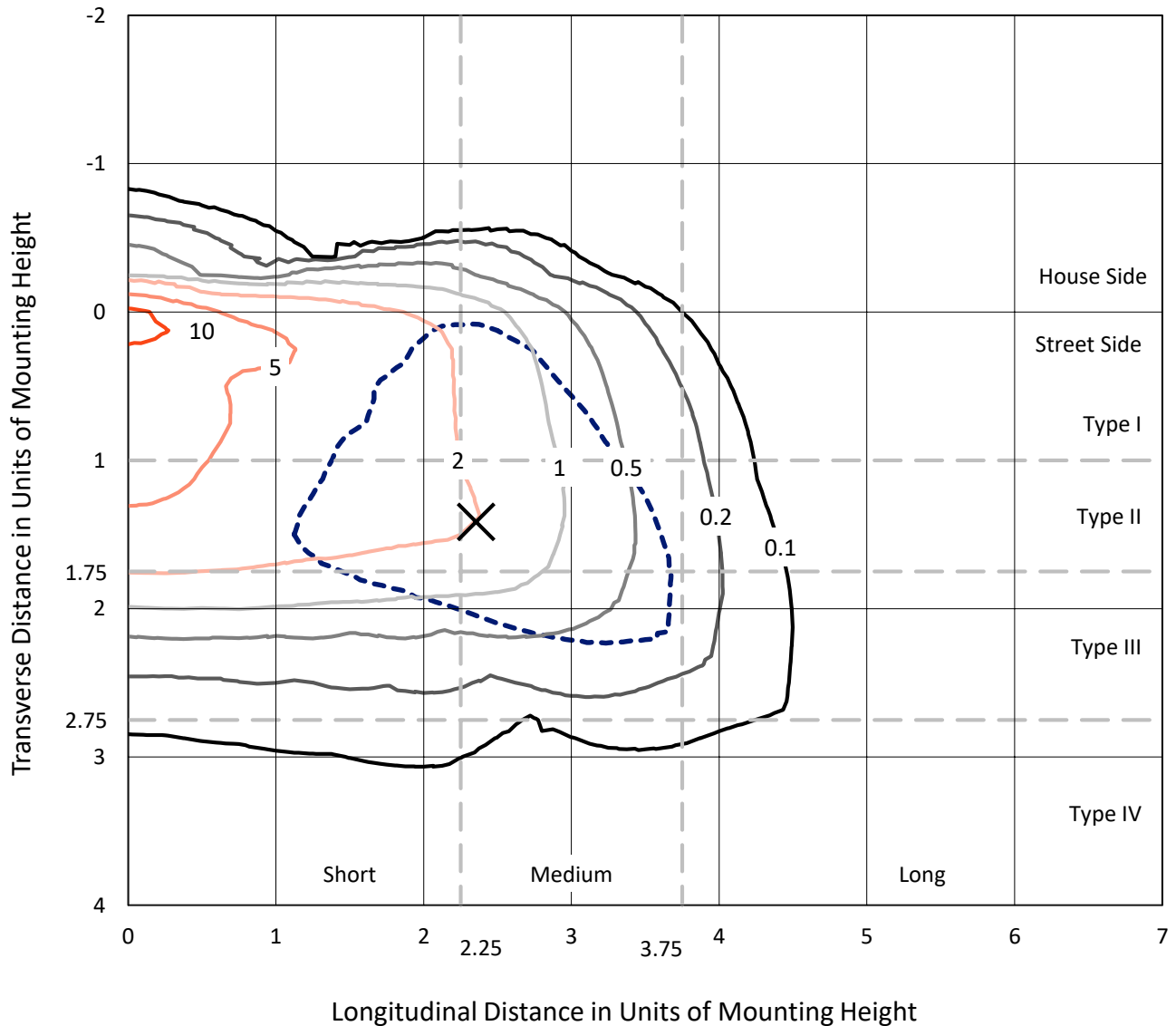
Input Watts (W): 58
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P271240
 CATALOG NUMBER: XNV-AF-01-LED-U-SL3-7027-HSS

Iso-Footcandle Lines of Horizontal Illumination

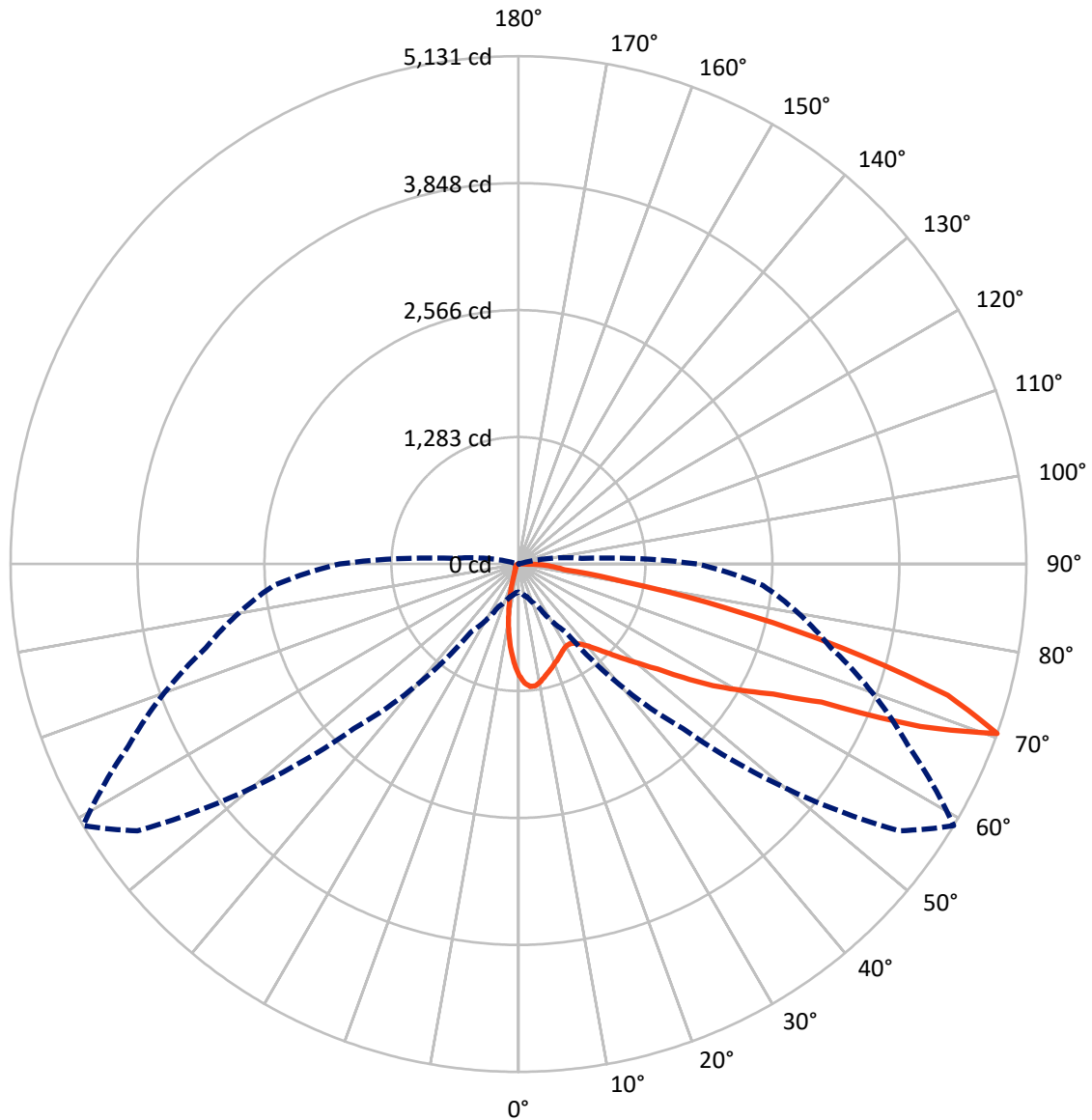
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 12 fc
 Type III - Medium - Non-Cutoff

REPORT NUMBER: P271240
CATALOG NUMBER: XNV-AF-01-LED-U-SL3-7027-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

REPORT NUMBER: P271240

CATALOG NUMBER: XNV-AF-01-LED-U-SL3-7027-HSS

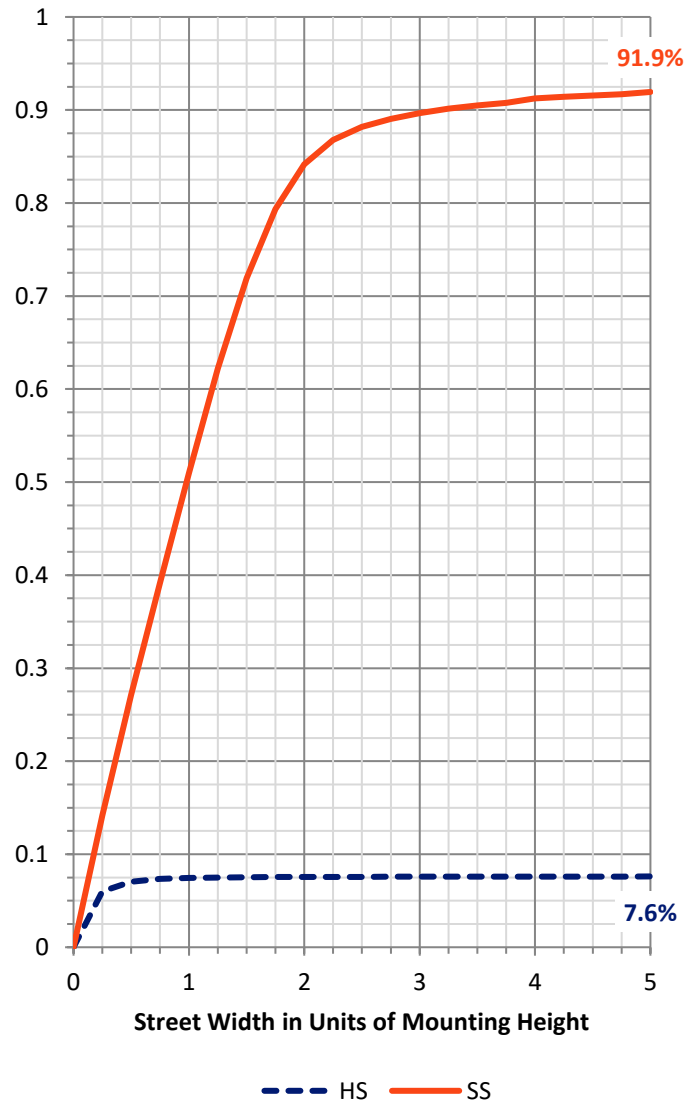
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	342.9	0.0	342.9
	% Fixture	7.7	0.0	7.7
Street Side	Lumens	4117.9	0.0	4117.9
	% Fixture	92.3	0.0	92.3
Total	Lumens	4460.8	0.0	4460.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	92.8	2.1
10°-20°	194.5	4.4
20°-30°	263.4	5.9
30°-40°	380.1	8.5
40°-50°	631.2	14.1
50°-60°	965.5	21.6
60°-70°	1200.8	26.9
70°-80°	663.8	14.9
80°-90°	68.8	1.5
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°	4460.8	100.0
0°-180°	4460.8	100.0



REPORT NUMBER: P271240

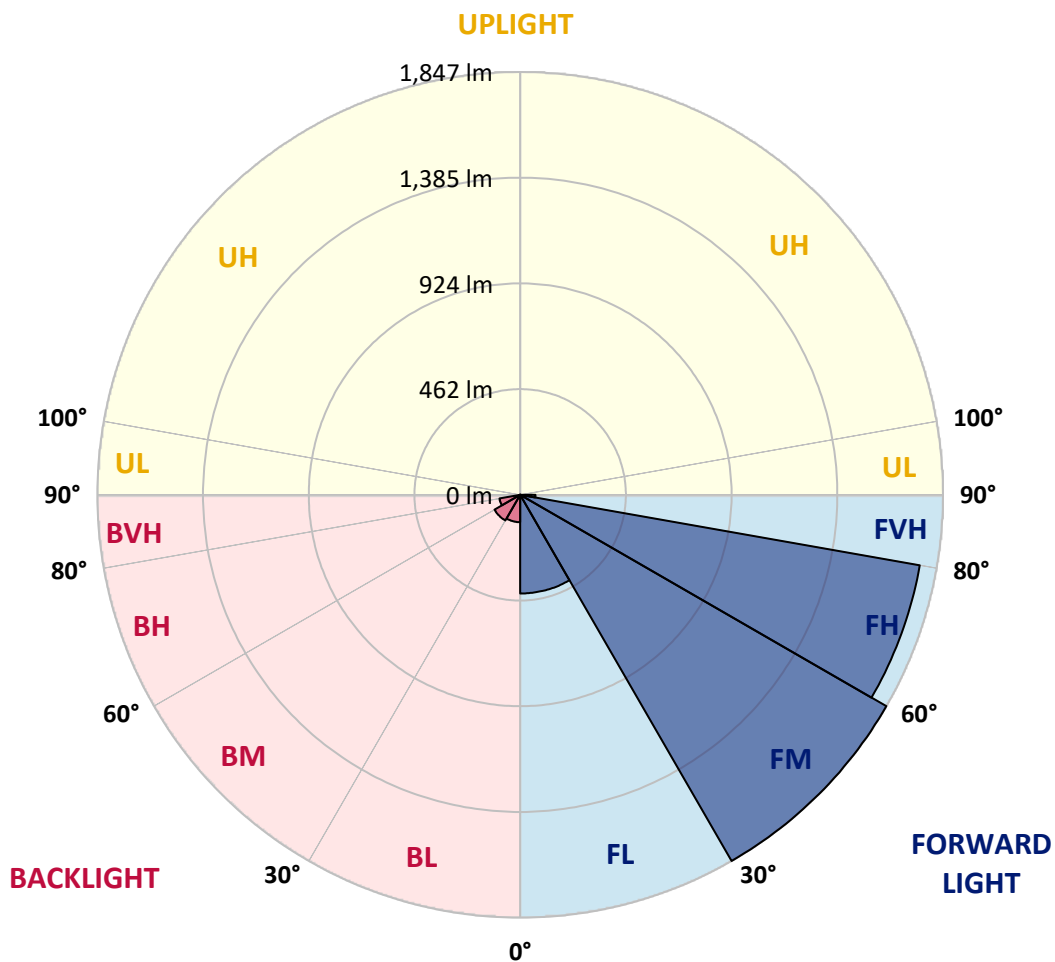
CATALOG NUMBER: XNV-AF-01-LED-U-SL3-7027-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	431.2	9.7			
FM	(30°-60°)	1847.3	41.4			
FH	(60°-80°)	1772.6	39.7			G1/1800
FVH	(80°-90°)	66.8	1.5			G1/100
BL	(0°-30°)	119.5	2.7	B1/500		
BM	(30°-60°)	129.4	2.9	B0/220		
BH	(60°-80°)	92.0	2.1	B0/110		G0/110
BVH	(80°-90°)	2.0	0.0			G0/10
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: P271240

CATALOG NUMBER: XNV-AF-01-LED-U-SL3-7027-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	1128.0	1128.0	1128.0	1128.0	1128.0	1128.0	1128.0	1128.0	1128.0	1128.0	1128.0
2.5°	1275.1	1273.0	1264.6	1262.9	1253.6	1234.7	1212.8	1204.1	1186.2	1157.9	1126.7
5°	1296.3	1297.2	1298.0	1294.2	1292.9	1277.4	1253.1	1242.7	1218.8	1172.4	1115.2
7.5°	1216.8	1219.4	1228.0	1231.7	1247.7	1253.9	1248.9	1242.0	1223.2	1168.3	1087.9
10°	1133.0	1138.2	1147.1	1153.2	1173.0	1189.3	1209.7	1211.5	1207.4	1155.0	1057.3
12.5°	1061.0	1065.7	1075.8	1087.9	1108.1	1129.0	1159.6	1170.4	1183.8	1146.1	1035.4
15°	999.2	1000.4	1010.2	1025.3	1051.9	1080.5	1117.0	1132.8	1159.0	1142.9	1018.6
17.5°	944.9	945.2	951.7	965.5	997.7	1035.4	1077.8	1098.6	1132.0	1138.2	1003.9
20°	909.3	908.9	909.3	916.7	945.2	990.0	1041.6	1063.4	1106.2	1132.4	988.7
22.5°	897.1	895.5	887.7	885.0	903.2	942.6	1004.1	1032.7	1082.8	1130.6	977.5
25°	912.0	910.9	894.4	879.0	880.7	905.2	966.1	1001.2	1064.8	1136.7	974.9
27.5°	959.7	957.8	932.5	902.2	883.0	887.3	937.9	974.5	1050.3	1151.5	978.6
30°	1022.4	1022.7	995.7	959.1	913.9	889.1	922.6	957.4	1040.4	1173.7	986.7
32.5°	1092.0	1091.6	1072.4	1030.0	972.5	920.0	929.4	958.8	1041.9	1206.5	1002.1
35°	1164.1	1160.3	1154.0	1116.6	1049.2	974.2	960.1	981.6	1056.0	1249.5	1028.4
37.5°	1247.0	1245.8	1252.1	1212.8	1144.1	1053.9	1013.8	1028.4	1091.6	1313.1	1070.8
40°	1379.3	1371.9	1374.9	1321.4	1251.2	1161.2	1089.3	1093.0	1148.6	1397.3	1137.8
42.5°	1631.4	1601.5	1545.3	1445.0	1368.9	1280.4	1187.9	1181.5	1228.9	1499.1	1225.8
45°	1932.6	1898.3	1756.5	1581.2	1486.8	1408.4	1309.6	1292.5	1327.9	1620.6	1339.6
47.5°	2184.0	2146.9	1959.2	1723.6	1606.4	1540.2	1444.7	1424.4	1446.4	1761.7	1476.3
50°	2269.7	2249.3	2084.3	1842.1	1727.4	1688.3	1614.0	1580.3	1585.7	1913.7	1635.8
52.5°	2230.4	2223.3	2113.0	1923.1	1839.0	1851.9	1799.3	1764.0	1758.0	2079.9	1812.2
55°	2147.3	2144.0	2090.0	1968.2	1937.6	2001.6	2059.5	2028.8	1971.6	2256.6	1957.9
57.5°	2028.6	2041.3	2079.9	2055.1	2058.7	2159.7	2301.1	2316.9	2231.4	2397.2	2065.8
60°	1711.1	1745.4	1922.8	2148.2	2321.0	2422.9	2559.8	2589.5	2451.5	2493.5	2190.6
62.5°	1265.0	1314.1	1566.9	1981.0	2465.3	2923.3	2904.1	2890.9	2661.5	2622.4	2417.8
65°	743.0	800.6	1014.2	1548.0	2247.6	3244.9	3546.8	3365.1	2981.5	2890.2	2779.5
67.5°	370.1	370.6	467.1	817.1	1661.1	3020.6	4485.0	4380.0	3661.9	3285.0	2922.2
70°	284.8	292.4	345.6	474.8	839.9	2352.5	4700.0	5131.1	4345.7	3267.6	2479.4
72.5°	241.3	246.3	307.6	413.2	627.9	1291.6	4068.8	4535.5	4146.8	2760.8	1827.6
75°	173.6	177.7	272.2	374.9	578.1	640.8	2791.0	3363.8	3111.4	1942.0	1005.8
77.5°	43.1	42.7	95.0	304.2	517.2	533.8	1601.5	2157.0	1785.2	795.2	258.4
80°	19.1	18.5	21.5	63.9	481.2	503.8	704.4	1089.3	684.8	128.8	79.1
82.5°	13.5	12.8	13.5	23.5	160.8	467.4	425.6	472.1	250.6	44.0	33.6
85°	4.4	4.0	7.4	19.9	45.0	269.5	415.2	352.7	186.4	18.9	22.5
87.5°	0.7	0.7	2.6	10.8	13.1	89.8	243.6	244.2	83.8	11.0	10.2
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: P271240

CATALOG NUMBER: XNV-AF-01-LED-U-SL3-7027-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1128.0	1128.0	1128.0	1128.0	1128.0	1128.0	1128.0	1128.0	1128.0	1128.0	1128.0
2.5°	1110.8	1091.0	1063.1	1035.0	1009.9	984.0	963.2	953.3	949.0	943.0	929.7
5°	1085.2	1049.2	988.0	927.8	871.5	817.6	771.6	745.4	717.0	715.8	701.9
7.5°	1044.2	993.0	896.5	802.9	717.0	635.0	564.3	518.5	487.3	467.7	454.4
10°	998.5	932.8	804.9	673.4	556.6	446.8	356.0	296.8	260.8	242.6	232.2
12.5°	962.1	879.6	714.7	549.1	402.8	276.9	192.4	149.4	130.3	122.8	119.5
15°	930.9	830.8	630.3	438.2	268.9	159.2	111.4	97.2	94.2	94.2	94.0
17.5°	899.2	783.7	548.1	329.0	169.3	104.4	87.9	85.8	86.1	87.1	87.1
20°	869.2	738.9	469.0	234.5	111.0	83.5	79.8	79.1	80.0	81.4	81.0
22.5°	844.9	699.6	395.1	161.2	85.5	75.6	73.3	72.4	73.0	74.0	73.8
25°	827.8	666.0	327.2	112.4	74.4	69.0	66.3	64.9	64.3	64.9	64.6
27.5°	817.4	637.6	263.2	84.5	66.7	62.3	58.8	56.2	54.4	54.4	53.9
30°	810.6	611.0	206.3	70.0	60.2	55.5	50.8	47.2	44.5	43.7	43.4
32.5°	810.4	588.2	154.1	62.0	54.2	48.8	43.1	38.4	35.4	34.7	34.3
35°	818.7	569.7	113.4	55.9	48.8	42.4	36.0	30.9	28.2	28.2	27.9
37.5°	840.6	558.9	85.8	51.2	44.5	37.0	30.4	25.6	23.3	23.9	23.9
40°	881.3	556.9	70.0	47.4	40.8	32.2	24.6	20.9	19.9	20.9	20.9
42.5°	943.6	567.6	62.3	44.7	37.4	27.6	20.5	17.8	17.4	18.5	18.5
45°	1024.6	588.8	57.9	42.4	33.6	22.8	17.2	15.5	15.1	16.4	16.4
47.5°	1122.9	617.5	53.9	39.7	30.0	18.9	14.5	13.1	13.1	14.5	14.8
50°	1239.4	656.2	49.8	37.0	26.9	15.8	12.0	11.0	11.5	12.8	13.1
52.5°	1373.2	703.6	46.2	34.7	23.5	12.8	10.2	9.4	9.7	11.0	11.5
55°	1488.8	745.1	41.7	32.2	19.1	10.4	8.4	8.1	8.4	10.2	10.2
57.5°	1589.3	784.7	37.6	28.6	15.1	8.4	6.7	6.7	7.4	9.2	9.4
60°	1722.9	847.3	34.3	24.3	11.5	6.4	5.4	5.7	6.7	8.1	8.4
62.5°	1959.6	953.7	30.0	20.2	8.4	5.0	4.4	4.8	6.1	7.7	8.1
65°	2255.6	1054.3	25.0	16.8	6.4	3.8	3.4	4.4	6.1	7.7	8.1
67.5°	2225.3	917.0	19.6	13.5	4.8	3.1	2.6	4.0	5.7	7.7	8.1
70°	1804.8	642.7	14.5	9.2	3.8	2.6	2.6	4.0	5.7	7.4	7.7
72.5°	1251.8	357.7	11.0	6.1	3.4	2.6	2.3	3.8	5.4	7.4	7.7
75°	595.7	109.8	8.8	4.4	3.1	2.3	2.1	3.8	5.4	7.4	7.7
77.5°	114.4	27.9	7.0	3.8	2.6	2.3	2.1	3.4	5.4	7.0	7.4
80°	38.6	12.4	5.7	3.4	2.6	2.3	2.1	3.4	5.0	6.7	7.0
82.5°	21.2	7.0	5.0	3.1	2.6	2.1	1.6	3.1	4.8	6.7	7.0
85°	16.4	5.0	4.0	3.1	2.6	2.1	1.6	3.1	4.8	6.4	6.7
87.5°	8.4	3.8	3.4	3.1	2.6	2.1	1.6	2.6	4.4	6.1	6.7
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)