

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: McGRAW-EDISON

Report Number: P299995

Luminaire Tested: **GLNA-AF-01-LED-E1-SL3-7030-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P299995
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P194479)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLNA-AF-01-LED-E1-SL3-7030-HSS
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3000K CCT 1050mA LIGHTSQUARE WITH 16 LEDS EACH AND Type III
w/Spill Control WITH HOUSESIDE SHEILD OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4678.3 lumens
Efficiency: N/A
Efficacy: 79.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short - Non-Cutoff
BUG Rating: B1 - U0 - G2

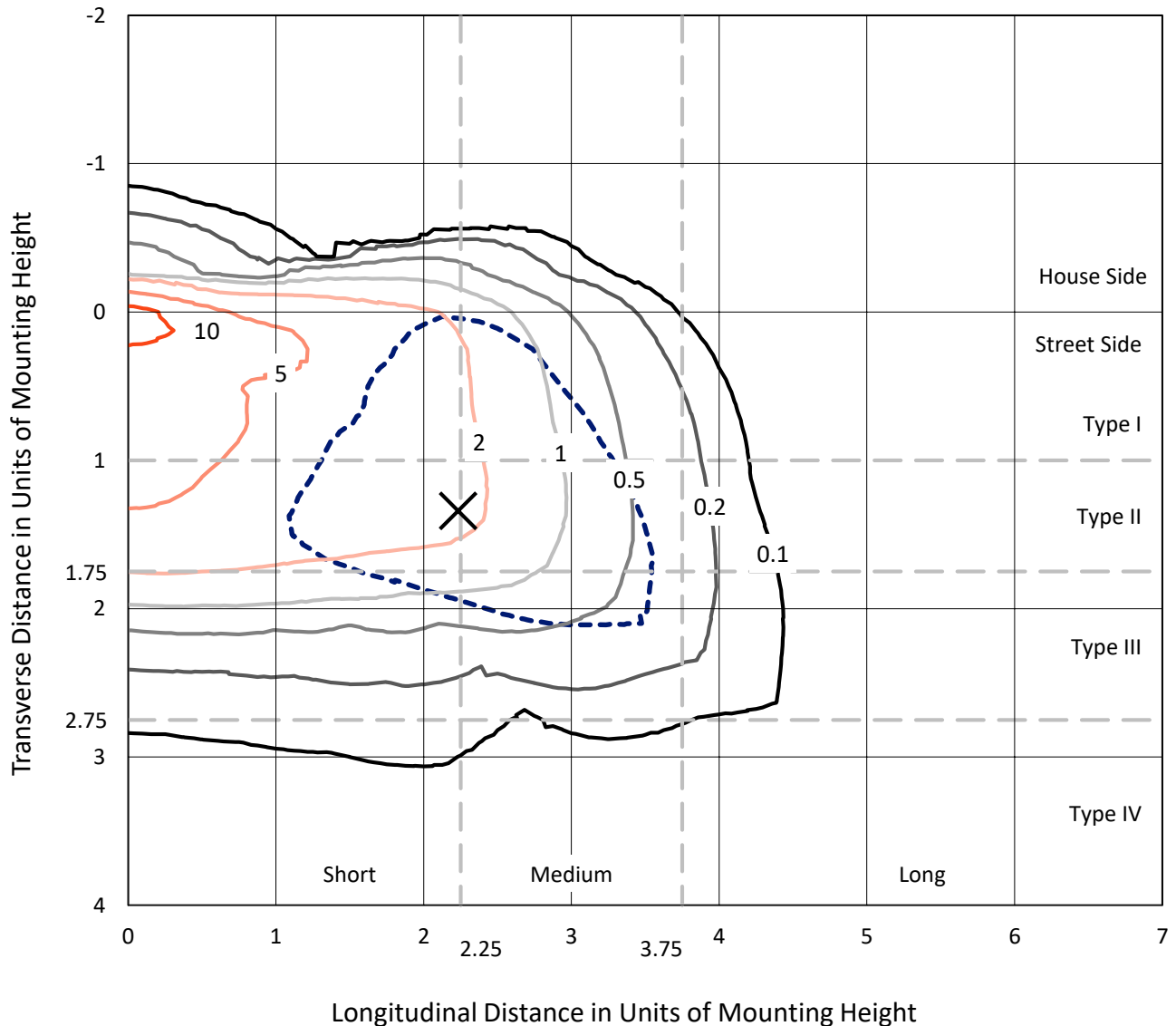
Input Watts (W): 59
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

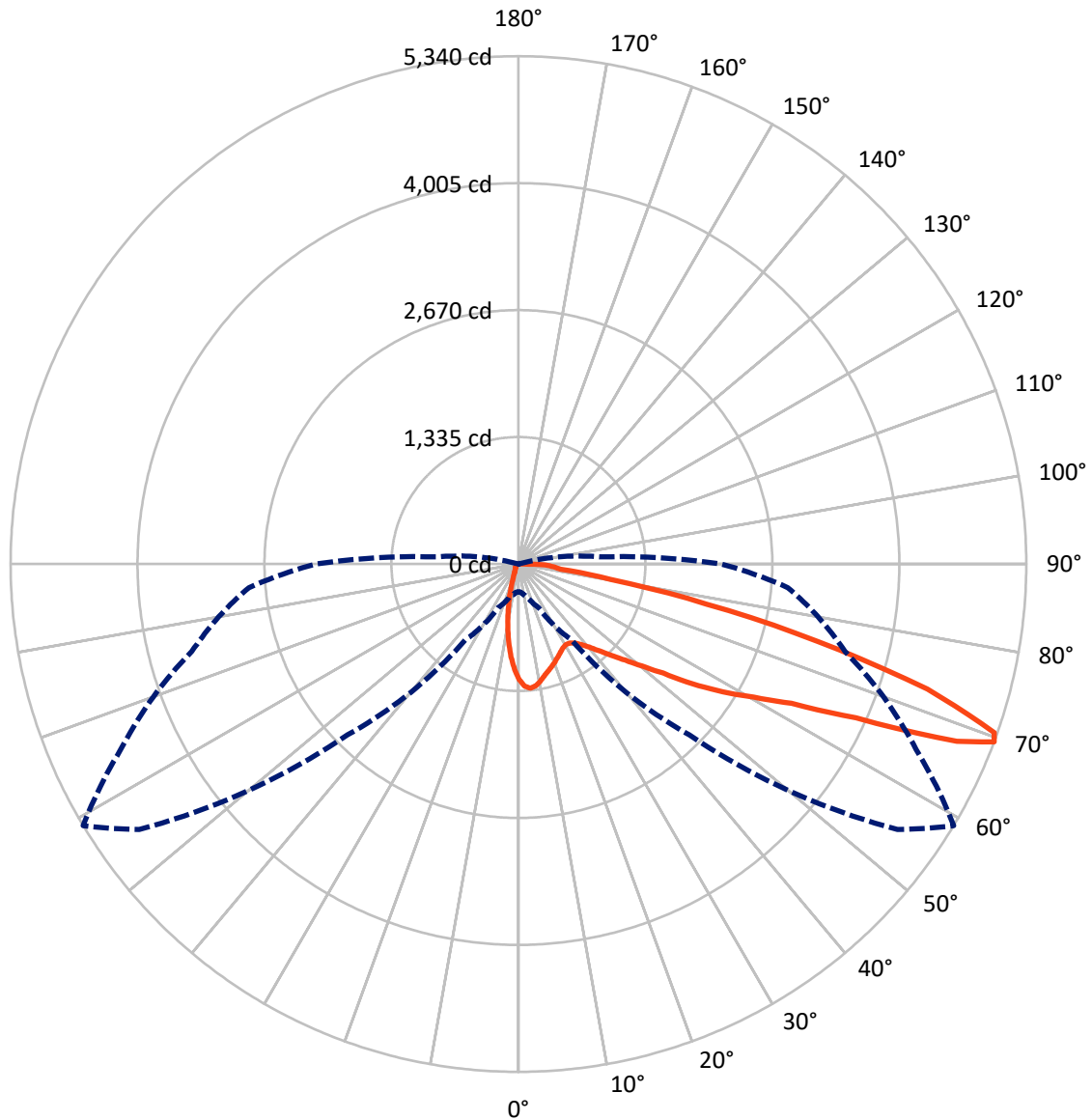
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 12.2 fc
 Type III - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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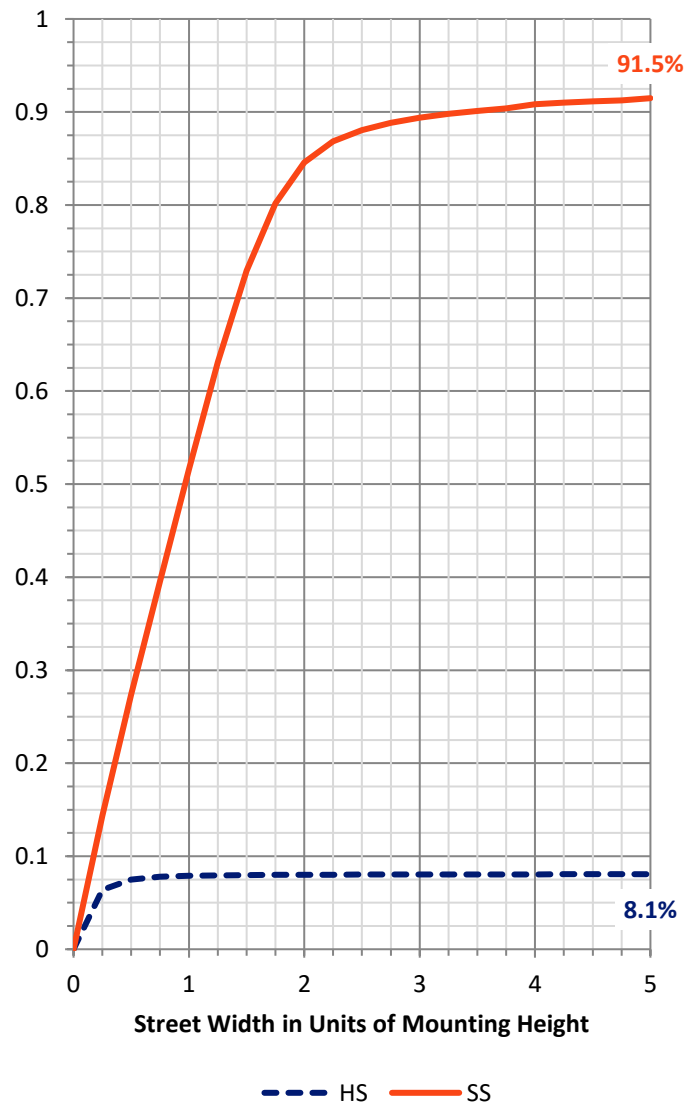
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	381.0	0.0	381.0
	% Fixture	8.1	0.0	8.1
Street Side	Lumens	4297.3	0.0	4297.3
	% Fixture	91.9	0.0	91.9
Total	Lumens	4678.3	0.0	4678.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	98.8	2.1
10°-20°	204.2	4.4
20°-30°	274.8	5.9
30°-40°	399.0	8.5
40°-50°	664.4	14.2
50°-60°	1036.5	22.2
60°-70°	1282.5	27.4
70°-80°	650.0	13.9
80°-90°	68.0	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°	4678.3	100.0
0°-180°	4678.3	100.0



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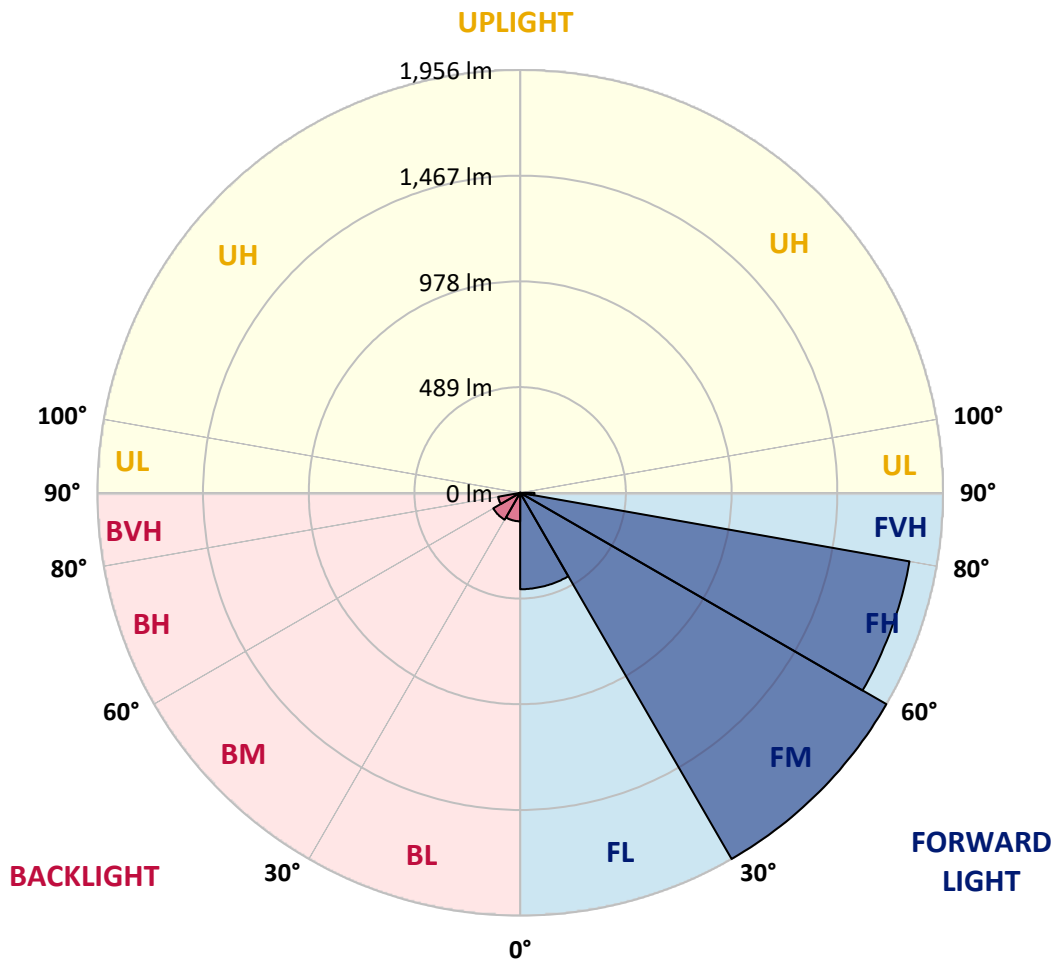
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	446.0	9.5			
FM	(30°-60°)	1956.3	41.8			
FH	(60°-80°)	1829.0	39.1			G2/5000
FVH	(80°-90°)	65.9	1.4			G1/100
BL	(0°-30°)	131.9	2.8	B1/500		
BM	(30°-60°)	143.5	3.1	B0/220		
BH	(60°-80°)	103.5	2.2	B0/110		G0/110
BVH	(80°-90°)	2.1	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-G2

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	1217.7	1217.7	1217.7	1217.7	1217.7	1217.7	1217.7	1217.7	1217.7	1217.7	1217.7
2.5°	1334.6	1334.1	1328.3	1325.6	1320.8	1310.8	1295.2	1287.0	1273.8	1250.7	1219.8
5°	1322.4	1328.8	1332.2	1332.5	1336.0	1332.2	1318.2	1311.4	1293.1	1256.0	1200.5
7.5°	1239.9	1242.3	1252.1	1260.5	1276.9	1292.6	1297.6	1294.6	1283.8	1244.2	1170.3
10°	1151.6	1153.9	1165.6	1176.7	1198.9	1223.0	1248.3	1253.7	1258.2	1227.2	1141.3
12.5°	1075.3	1077.7	1089.7	1104.2	1130.1	1159.8	1199.2	1207.9	1227.8	1211.1	1118.0
15°	1009.7	1010.8	1022.5	1040.4	1071.4	1109.5	1154.2	1168.3	1198.7	1199.7	1097.6
17.5°	953.9	956.6	963.8	980.9	1014.8	1061.9	1114.0	1134.1	1169.8	1190.2	1077.7
20°	919.8	922.4	922.2	931.7	962.2	1012.4	1073.8	1097.8	1141.3	1180.4	1060.0
22.5°	913.2	913.2	906.3	905.0	923.0	965.1	1032.0	1061.3	1115.6	1176.2	1047.6
25°	936.8	935.7	918.5	904.5	905.3	930.4	991.5	1026.4	1093.9	1179.1	1041.0
27.5°	986.5	985.2	963.5	936.8	915.3	915.1	960.8	998.4	1076.7	1192.8	1043.6
30°	1055.2	1054.8	1031.2	997.6	958.7	923.0	950.2	984.4	1065.6	1217.7	1049.7
32.5°	1130.4	1129.6	1111.9	1076.5	1027.2	958.7	961.4	990.0	1068.8	1250.7	1064.5
35°	1210.1	1208.7	1201.0	1170.1	1115.9	1024.6	997.9	1020.1	1088.9	1300.2	1093.6
37.5°	1296.2	1297.6	1303.1	1273.5	1216.6	1116.9	1059.0	1074.1	1129.3	1367.4	1140.9
40°	1423.5	1423.3	1425.1	1386.2	1331.5	1229.8	1144.4	1149.2	1197.1	1456.6	1212.9
42.5°	1654.4	1638.3	1589.4	1510.0	1455.0	1359.0	1252.1	1247.1	1279.9	1566.9	1313.7
45°	1964.8	1930.3	1803.4	1651.3	1580.9	1504.5	1384.6	1368.5	1389.4	1699.4	1438.1
47.5°	2231.7	2195.9	2016.4	1798.4	1714.5	1642.6	1539.9	1510.8	1517.7	1847.8	1595.7
50°	2322.4	2304.9	2148.1	1926.4	1843.8	1816.4	1720.1	1684.6	1674.8	2019.5	1778.5
52.5°	2290.9	2289.6	2185.1	2009.5	1962.4	1996.3	1946.8	1905.8	1869.8	2200.5	1964.5
55°	2240.4	2247.0	2200.2	2082.2	2080.6	2160.5	2256.8	2222.7	2118.5	2397.1	2124.8
57.5°	2101.0	2129.3	2191.8	2219.8	2284.8	2366.6	2515.0	2535.1	2411.9	2547.6	2257.9
60°	1704.7	1766.9	1971.1	2239.6	2548.1	2751.8	2826.7	2843.8	2652.6	2672.7	2437.5
62.5°	1210.1	1273.5	1532.5	1986.7	2552.0	3257.8	3290.9	3223.5	2917.7	2858.2	2747.3
65°	642.3	691.3	902.9	1434.1	2212.7	3375.3	4102.8	3901.8	3385.3	3222.9	3147.5
67.5°	328.5	343.4	427.5	701.9	1521.1	2998.1	4830.6	4972.1	4191.4	3584.8	3128.2
69°	290.7	299.5	355.3	507.4	974.0	2539.4	4866.0	5339.6	4613.4	3554.7	2842.8
70°	281.5	289.1	339.9	459.3	761.4	2129.5	4730.3	5307.3	4721.3	3439.9	2629.6
72.5°	238.9	245.5	302.7	405.8	618.8	1057.1	3842.5	4497.3	4236.7	2865.5	1903.4
75°	159.8	181.5	290.5	380.4	575.6	600.5	2533.3	3249.9	3019.0	1932.7	991.5
77.5°	38.4	41.2	82.0	302.7	526.5	528.5	1302.9	2020.3	1647.9	688.9	234.4
80°	20.7	19.9	23.0	60.1	490.2	496.0	586.5	980.7	588.4	114.3	77.2
82.5°	14.6	13.8	14.8	25.1	154.3	451.8	424.3	443.9	243.9	43.9	34.7
85°	5.3	5.0	8.2	22.7	48.4	259.7	436.0	366.1	197.6	20.1	25.4
87.5°	1.8	1.6	3.2	12.4	14.8	110.6	269.0	276.7	77.8	12.2	11.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1217.7	1217.7	1217.7	1217.7	1217.7	1217.7	1217.7	1217.7	1217.7	1217.7	1217.7
2.5°	1206.9	1190.4	1160.3	1129.3	1100.7	1066.4	1049.2	1032.3	1025.1	1022.5	1010.1
5°	1171.9	1144.1	1080.1	1015.8	956.6	893.6	852.1	818.8	799.2	789.6	774.6
7.5°	1127.2	1081.8	984.6	885.4	793.1	702.1	634.7	582.8	547.0	529.9	514.3
10°	1083.8	1023.3	885.2	750.0	624.6	504.0	410.8	343.4	300.3	280.4	267.8
12.5°	1045.0	966.4	789.2	618.0	460.5	319.3	224.6	170.9	144.2	134.9	130.4
15°	1010.3	914.0	698.4	492.6	311.9	182.5	122.8	104.5	100.3	100.3	99.7
17.5°	977.5	862.7	610.8	374.8	195.7	111.7	93.4	91.0	91.0	92.0	92.0
20°	946.0	813.8	526.1	269.0	123.3	88.6	84.4	83.9	84.4	85.7	85.7
22.5°	919.0	769.3	447.1	184.6	91.5	79.9	77.8	77.0	77.2	78.0	78.6
25°	898.9	731.7	372.5	125.1	78.8	72.7	70.4	69.0	68.0	68.0	68.5
27.5°	886.2	700.0	300.3	91.0	70.9	66.2	62.4	60.3	57.9	56.6	57.1
30°	876.9	669.8	232.5	74.3	63.5	58.7	54.0	50.5	47.1	45.5	46.1
32.5°	873.5	645.5	173.8	65.6	56.9	51.6	45.7	41.2	37.6	36.2	36.5
35°	882.8	626.2	127.3	59.3	51.6	44.9	38.4	33.3	30.4	29.6	29.9
37.5°	907.1	615.8	95.2	54.0	46.9	39.4	32.0	27.2	25.4	25.4	25.6
40°	953.1	615.6	76.5	50.3	42.6	34.1	26.4	23.0	21.9	22.5	22.7
42.5°	1020.3	629.6	66.6	46.9	38.9	29.1	21.9	19.5	19.3	19.9	20.1
45°	1112.1	655.2	61.4	43.9	34.9	24.3	18.5	16.9	16.9	17.7	18.0
47.5°	1224.6	692.8	56.9	41.0	30.9	20.3	15.9	14.8	15.1	15.9	16.1
50°	1360.0	740.2	52.4	37.8	28.0	16.9	13.8	13.0	13.2	14.3	14.6
52.5°	1514.3	804.0	48.7	34.9	24.3	14.0	11.6	11.1	11.6	12.7	13.0
55°	1646.5	861.1	44.2	32.5	19.5	11.6	9.5	9.5	10.1	11.4	11.6
57.5°	1773.8	920.8	40.2	28.0	15.4	9.3	7.9	8.2	9.0	10.3	10.6
60°	1960.5	1022.2	35.5	23.5	11.6	7.4	6.6	6.9	7.9	9.3	9.5
62.5°	2277.7	1176.4	30.7	19.5	9.0	5.8	5.3	5.8	7.1	8.7	9.0
65°	2564.0	1239.1	25.1	16.4	6.9	4.5	4.5	5.3	6.9	8.5	8.7
67.5°	2404.4	1043.1	19.5	13.0	5.3	3.4	3.7	5.0	6.6	8.5	8.7
69°	2126.4	852.9	16.7	10.3	4.5	3.2	3.4	5.0	6.6	8.2	8.5
70°	1909.8	720.1	14.8	8.7	4.0	3.2	3.4	4.7	6.6	8.2	8.5
72.5°	1279.1	388.9	11.9	6.3	3.7	2.9	2.9	4.7	6.3	7.9	8.2
75°	549.7	107.4	9.5	4.5	3.2	2.6	2.6	4.5	6.1	7.7	8.2
77.5°	100.5	27.2	7.7	4.0	3.2	2.6	2.4	4.2	5.8	7.4	7.7
80°	40.0	13.5	6.1	3.4	2.9	2.4	2.1	4.0	5.5	7.1	7.4
82.5°	24.1	7.7	5.0	3.2	2.9	2.1	1.8	3.4	5.3	6.9	7.1
85°	19.5	5.3	4.0	3.2	2.6	2.1	1.6	3.2	4.7	6.6	6.9
87.5°	9.5	3.7	3.7	2.9	2.6	2.1	1.6	2.9	4.5	6.3	6.6
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)