

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: P647214

Luminaire Tested: **GALN-SA1D-835-U-SL2-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P647214
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-17)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA1D-835-U-SL2-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 3500K, 1200mA LIGHTSQUARE WITH 16 LEDS AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3577.5 lumens
Efficiency: N/A
Efficacy: 55.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G0

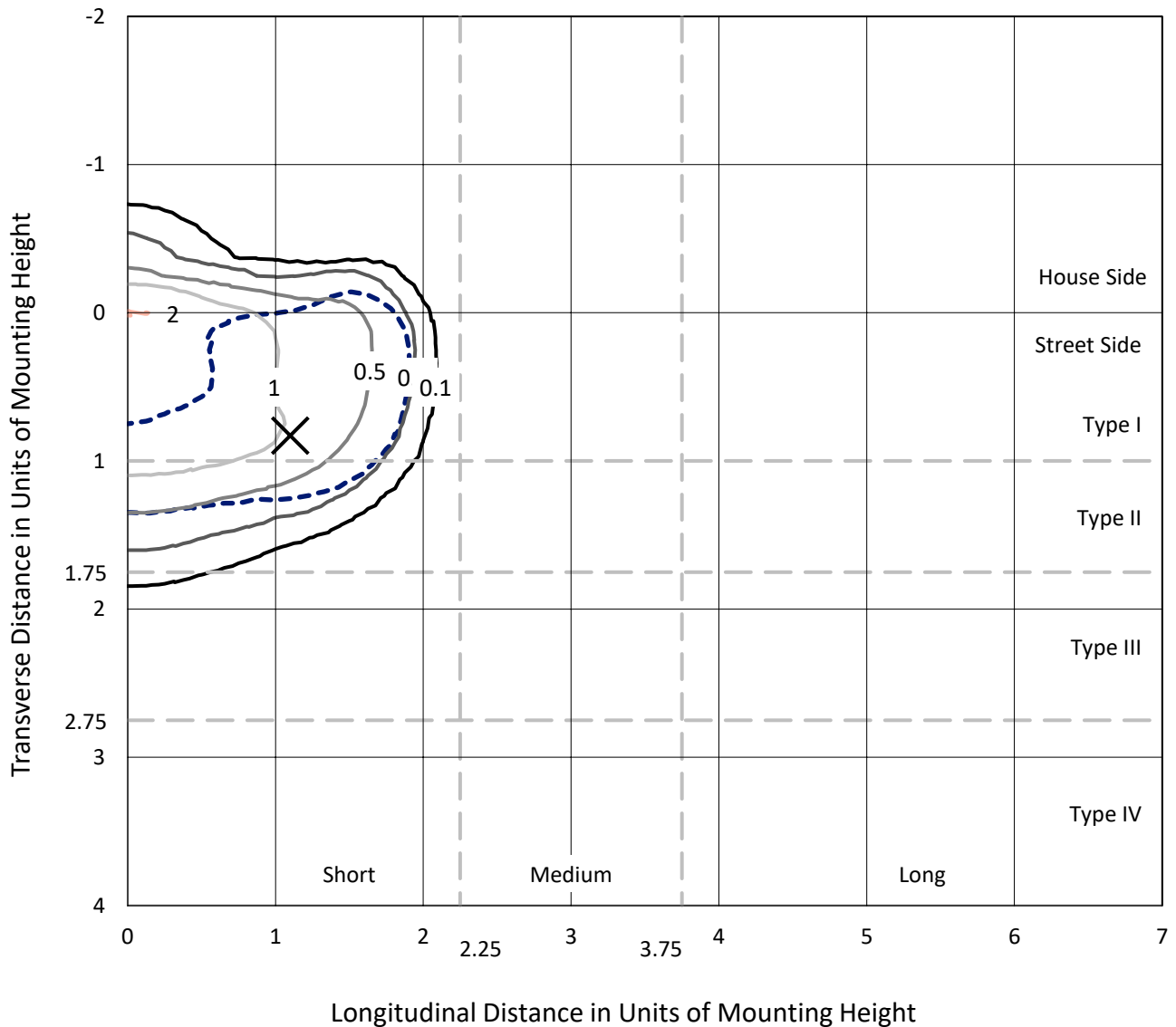
Input Watts (W): 65
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

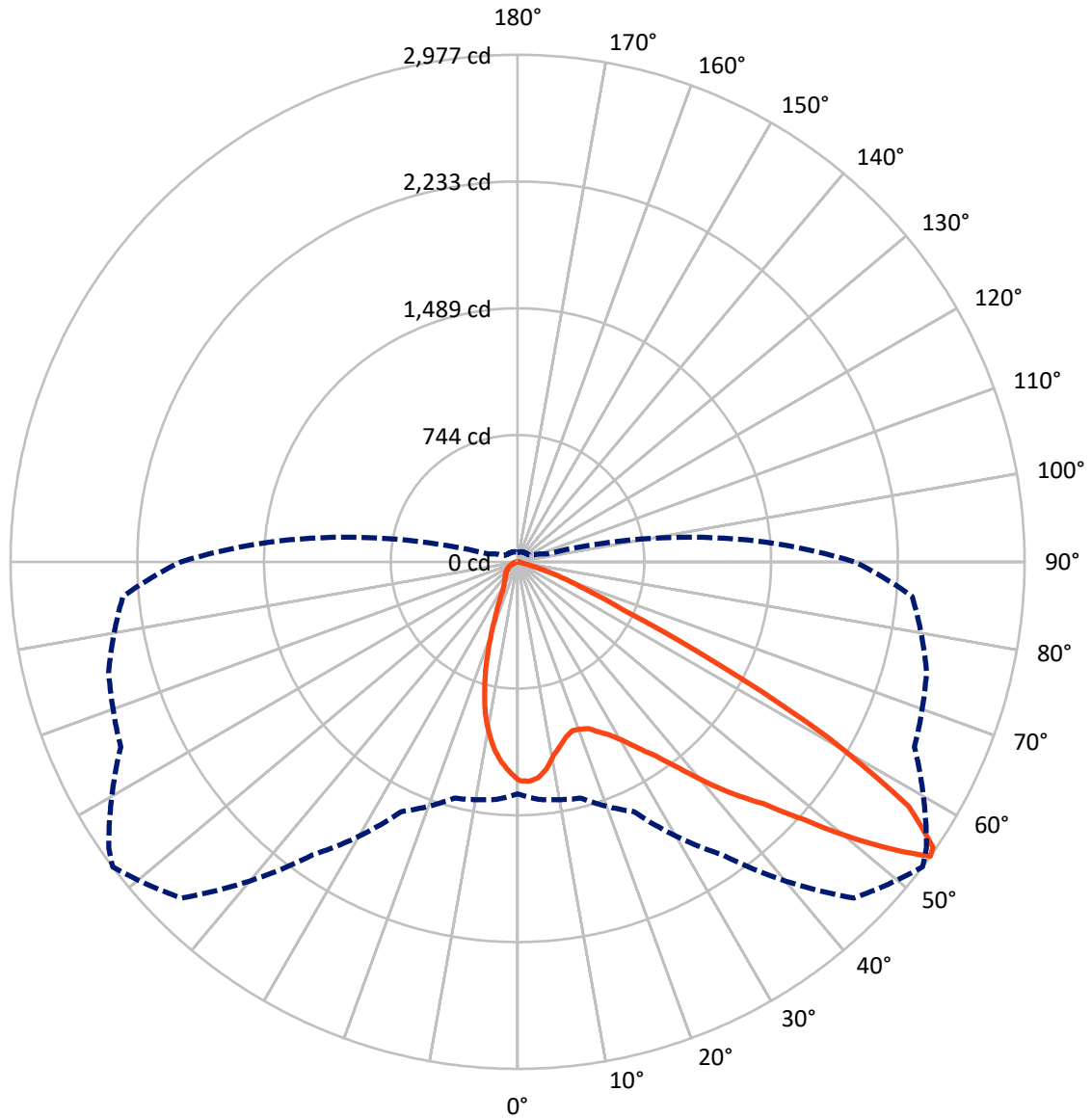
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.1 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral - - - Horizontal Cone Through 54-Deg Vertical

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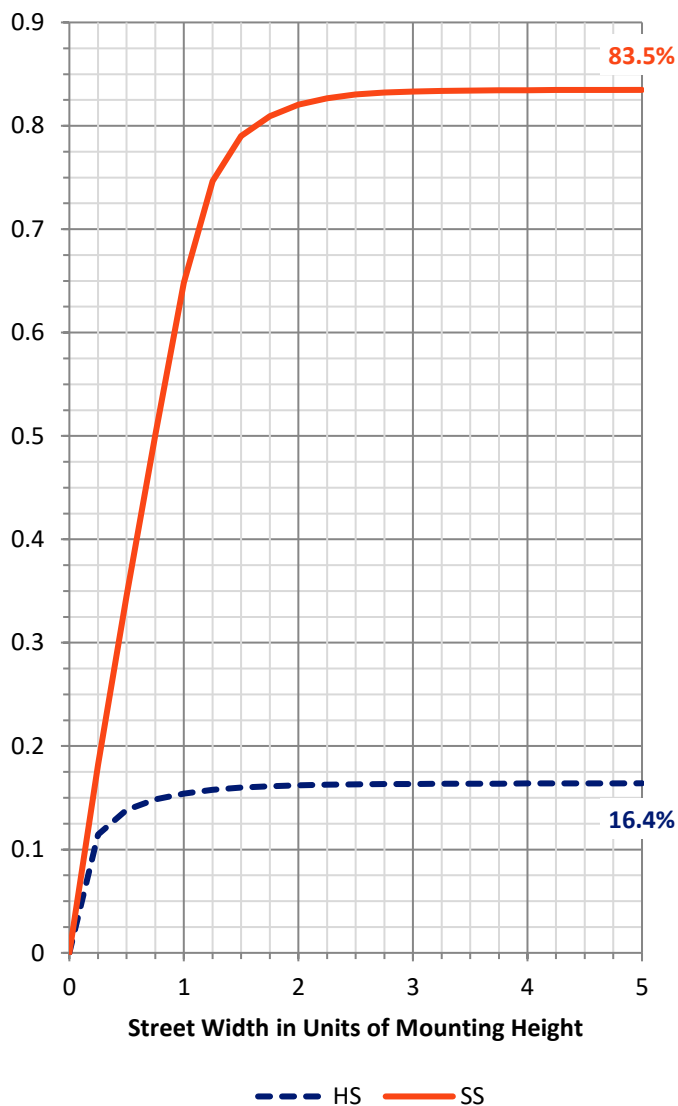
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	591.9	0.0	591.9
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	2985.6	0.0	2985.6
	% Fixture	83.5	0.0	83.5
Total	Lumens	3577.5	0.0	3577.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	110.2	3.1
10°-20°	252.8	7.1
20°-30°	359.2	10.0
30°-40°	554.4	15.5
40°-50°	869.2	24.3
50°-60°	1009.7	28.2
60°-70°	381.5	10.7
70°-80°	36.3	1.0
80°-90°	4.1	0.1
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°	3577.5	100.0
0°-180°	3577.5	100.0

Coefficient of Utilization

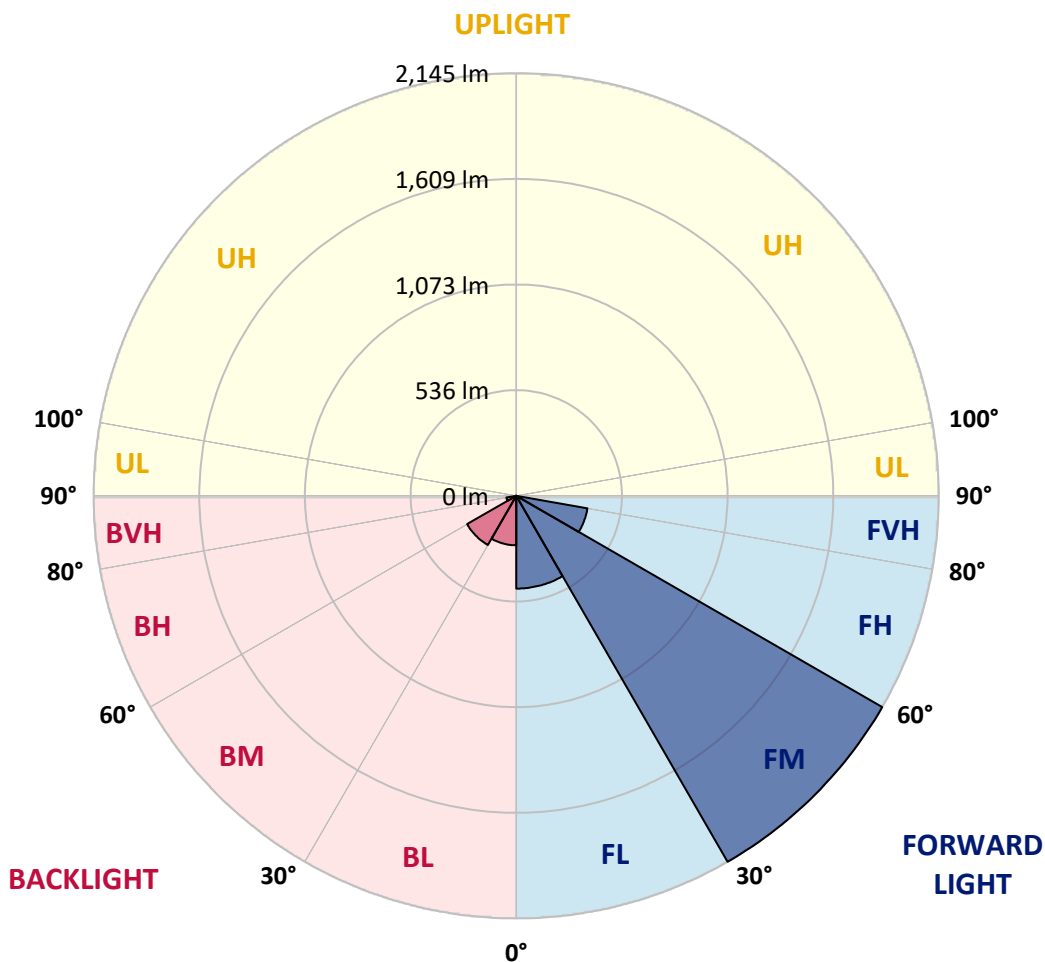


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	471.1	13.2			
FM (30°-60°)	2145.3	60.0			
FH (60°-80°)	367.1	10.3			G0/660
FVH (80°-90°)	2.1	0.1			G0/10
BL (0°-30°)	251.2	7.0	B1/500		
BM (30°-60°)	288.0	8.1	B1/1000		
BH (60°-80°)	50.7	1.4	B0/110		G0/110
BVH (80°-90°)	2.0	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G0
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	1285.0	1285.0	1285.0	1285.0	1285.0	1285.0	1285.0	1285.0	1285.0	1285.0	1285.0
2.5°	1278.3	1267.0	1278.3	1279.7	1287.6	1295.0	1290.3	1301.0	1295.0	1288.3	1286.3
5°	1175.0	1190.3	1191.0	1215.0	1209.7	1253.7	1273.0	1267.7	1300.3	1298.3	1293.7
7.5°	1082.3	1076.4	1084.4	1112.3	1147.7	1198.4	1226.3	1225.7	1272.3	1305.7	1302.3
10°	996.4	995.7	1012.4	1034.4	1064.4	1117.7	1156.3	1175.7	1248.3	1299.0	1306.3
12.5°	938.4	935.8	953.8	971.7	1019.1	1060.4	1109.7	1119.1	1202.4	1275.7	1287.6
15°	900.4	906.4	907.7	942.4	972.4	1027.1	1065.7	1085.0	1181.0	1257.0	1303.0
17.5°	893.8	901.8	902.4	931.1	963.1	1009.1	1043.0	1069.0	1163.0	1266.3	1303.6
20°	907.1	902.4	906.4	924.4	955.7	999.7	1049.1	1057.7	1157.0	1271.0	1311.0
22.5°	945.1	943.7	933.7	948.4	970.4	1016.4	1063.1	1076.4	1174.3	1295.0	1317.0
25°	987.0	994.4	985.1	983.1	998.4	1043.7	1105.7	1123.1	1232.4	1338.3	1335.6
27.5°	1065.7	1058.4	1058.4	1049.1	1045.1	1067.1	1151.7	1180.4	1297.0	1394.3	1356.9
30°	1141.0	1149.1	1143.0	1146.4	1119.7	1117.7	1217.0	1252.3	1411.6	1479.6	1402.3
32.5°	1260.3	1249.7	1259.7	1251.0	1215.7	1179.7	1305.7	1342.3	1550.3	1577.6	1470.2
35°	1359.6	1355.0	1397.7	1396.3	1339.0	1303.6	1399.6	1454.3	1646.9	1694.9	1550.3
37.5°	1500.9	1492.2	1540.9	1564.3	1512.9	1460.3	1534.3	1597.6	1736.9	1788.8	1632.2
40°	1646.3	1668.2	1733.6	1772.2	1717.5	1647.6	1698.9	1718.2	1796.8	1850.2	1688.2
42.5°	1830.2	1862.1	1928.8	1962.1	1957.5	1881.5	1866.2	1865.5	1840.2	1832.8	1729.6
45°	2006.8	1994.8	2097.4	2170.1	2228.7	2206.7	2027.4	2007.5	1908.8	1858.8	1740.2
47.5°	2084.1	2080.1	2150.1	2279.4	2479.4	2506.7	2262.1	2184.7	2024.8	1968.1	1798.2
50°	1984.1	2004.8	2074.1	2217.4	2524.0	2732.6	2550.0	2446.0	2160.1	2101.4	1935.5
52.5°	1657.5	1671.5	1737.6	1919.4	2372.0	2865.9	2825.9	2765.9	2408.7	2311.4	2174.8
54°	1363.0	1400.3	1436.3	1618.9	2101.4	2791.9	2977.2	2931.2	2570.7	2486.0	2325.4
55°	1187.0	1209.0	1235.0	1416.9	1914.1	2666.6	2959.9	2963.9	2679.3	2540.7	2426.7
57.5°	867.1	882.4	855.7	936.4	1314.3	2165.4	2707.3	2815.3	2825.9	2622.7	2488.7
60°	662.5	669.2	639.2	651.8	817.1	1486.3	2094.1	2224.0	2549.3	2292.1	2108.1
62.5°	513.9	515.2	514.5	536.5	563.2	874.5	1309.6	1425.0	1757.5	1627.5	1431.6
65°	378.6	372.6	383.2	449.9	480.5	549.8	689.8	773.8	955.1	806.4	576.5
67.5°	245.2	247.3	257.9	334.6	411.9	421.9	424.5	417.9	418.6	230.6	144.6
70°	147.3	150.6	147.3	189.3	294.6	302.6	276.6	269.9	210.6	54.7	53.9
72.5°	87.3	82.6	74.0	81.3	122.6	146.7	131.9	131.3	82.6	32.0	32.0
75°	36.6	33.4	27.3	24.7	32.7	31.3	31.3	28.0	22.0	21.3	20.0
77.5°	7.4	7.4	5.3	6.0	8.0	9.3	11.4	11.4	13.3	13.3	12.7
80°	0.0	0.7	2.0	4.0	6.0	8.7	10.0	10.0	11.4	11.4	9.3
82.5°	0.0	0.7	2.0	4.0	5.3	8.0	10.0	10.0	11.4	12.0	10.0
85°	0.0	0.7	2.0	3.4	5.3	6.7	6.7	6.0	4.7	4.0	2.7
87.5°	0.0	0.0	0.7	1.3	0.7	1.3	1.3	1.3	1.3	1.3	1.3
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°	1285.0	1285.0	1285.0	1285.0	1285.0	1285.0	1285.0	1285.0	1285.0	1285.0	1285.0
2.5°	1291.0	1290.3	1274.3	1248.3	1242.3	1220.3	1217.6	1204.3	1211.7	1187.0	1184.4
5°	1280.3	1272.3	1253.0	1236.4	1187.7	1153.0	1125.7	1092.4	1073.0	1076.4	1063.7
7.5°	1295.6	1275.0	1241.0	1183.0	1123.7	1063.1	1030.4	962.4	937.7	901.1	895.8
10°	1279.7	1264.3	1211.7	1115.7	1033.7	946.4	869.8	794.4	737.1	712.5	707.1
12.5°	1278.3	1251.6	1163.7	1057.0	938.4	813.1	701.8	607.8	551.2	519.2	511.8
15°	1257.7	1225.7	1109.7	966.4	802.4	646.5	525.2	434.6	391.3	372.6	377.9
17.5°	1259.7	1211.7	1055.7	870.5	668.5	474.6	358.5	311.9	300.6	305.2	305.2
20°	1257.7	1180.4	990.4	759.8	511.8	329.3	263.2	246.6	253.9	268.6	265.3
22.5°	1247.0	1165.7	930.4	643.2	376.5	243.9	211.3	212.0	223.3	241.2	245.2
25°	1255.0	1133.0	854.4	525.2	274.6	194.6	183.3	187.9	200.0	213.3	216.0
27.5°	1249.0	1109.7	775.1	407.9	200.6	167.3	166.6	171.9	177.3	187.3	187.3
30°	1255.7	1088.4	697.2	303.3	165.3	153.3	150.6	154.6	160.0	161.9	161.3
32.5°	1280.3	1072.4	607.1	226.6	146.0	140.0	140.0	140.0	139.3	142.0	142.7
35°	1334.3	1075.1	527.8	175.3	133.3	128.6	126.6	123.9	122.6	123.9	124.7
37.5°	1393.0	1073.7	445.9	149.3	123.9	120.0	115.3	111.3	110.6	112.0	109.9
40°	1419.0	1086.4	369.9	134.0	115.3	110.6	103.3	100.0	100.6	101.9	100.6
42.5°	1454.3	1090.4	320.6	122.0	107.3	100.0	95.3	91.3	90.7	92.6	92.0
45°	1453.6	1067.7	268.6	115.3	100.0	92.0	86.0	82.6	82.6	84.0	84.6
47.5°	1496.2	1064.4	230.6	109.3	94.7	86.7	79.3	76.7	76.0	76.0	74.6
50°	1595.6	1111.0	201.3	102.7	88.0	80.6	74.6	71.3	68.7	67.3	66.6
52.5°	1789.5	1256.3	178.6	94.7	80.6	74.6	69.3	66.6	63.3	60.0	59.4
54°	1977.5	1406.3	177.3	88.0	74.6	70.6	66.0	64.7	60.7	56.0	54.7
55°	2062.1	1493.6	182.0	82.6	70.6	68.0	64.0	62.6	58.6	53.3	52.6
57.5°	2132.1	1527.6	179.3	68.7	64.0	63.3	60.0	58.0	53.3	46.0	44.6
60°	1716.2	1155.0	128.6	60.7	58.6	57.3	54.7	53.3	47.3	39.3	38.7
62.5°	1084.4	664.5	82.0	53.3	51.3	49.3	46.0	44.6	39.3	31.3	29.4
65°	461.9	275.2	55.3	47.3	44.0	40.6	38.0	36.0	31.3	23.3	22.6
67.5°	120.0	98.0	46.0	41.3	36.6	32.0	30.0	26.6	21.3	16.0	15.3
70°	53.9	49.3	38.7	34.7	29.4	24.7	22.0	18.6	14.0	10.6	10.0
72.5°	32.0	31.3	29.4	26.0	22.0	18.6	16.0	12.7	9.3	6.0	6.0
75°	20.0	19.3	20.0	18.0	15.3	14.0	12.0	8.7	5.3	2.7	2.7
77.5°	12.0	12.0	12.0	11.4	10.6	10.6	8.7	5.3	2.7	0.7	0.7
80°	9.3	9.3	10.0	9.3	9.3	9.3	7.4	4.0	1.3	0.0	0.0
82.5°	9.3	10.0	11.4	10.6	9.3	8.0	6.7	4.0	1.3	0.0	0.0
85°	2.7	2.0	3.4	4.7	6.7	6.0	4.7	3.4	1.3	0.0	0.0
87.5°	1.3	1.3	1.3	1.3	0.7	0.7	0.7	0.7	0.7	0.0	0.0
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)