

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: P526905

Luminaire Tested: **GALN-SA1D-827-U-SL2-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P526905  
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-827-U-SL2-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 80 CRI, 2700K, 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: 3359 lumens  
Efficiency: N/A  
Efficacy: 51.7 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

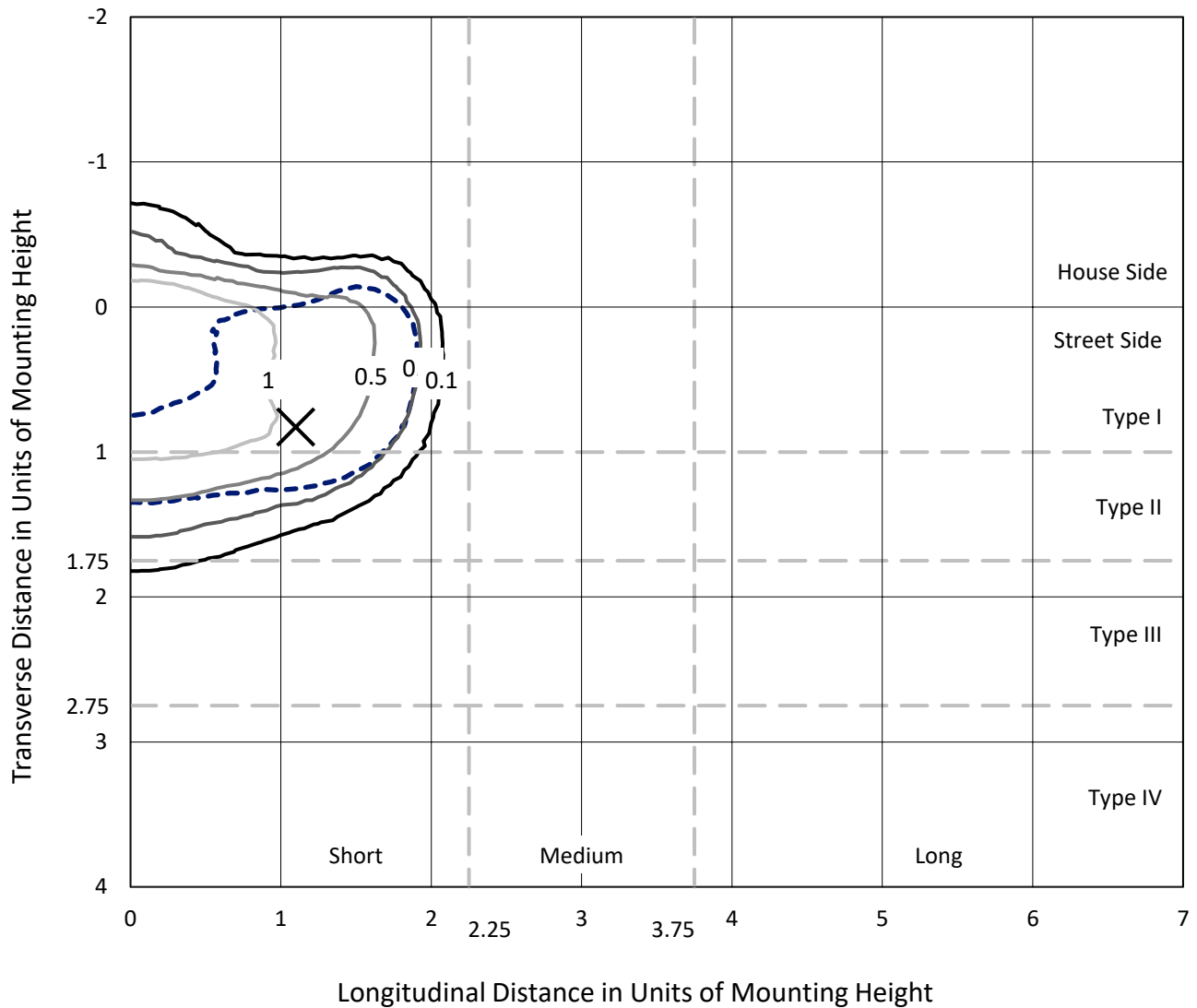
Input Watts (W): 65  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

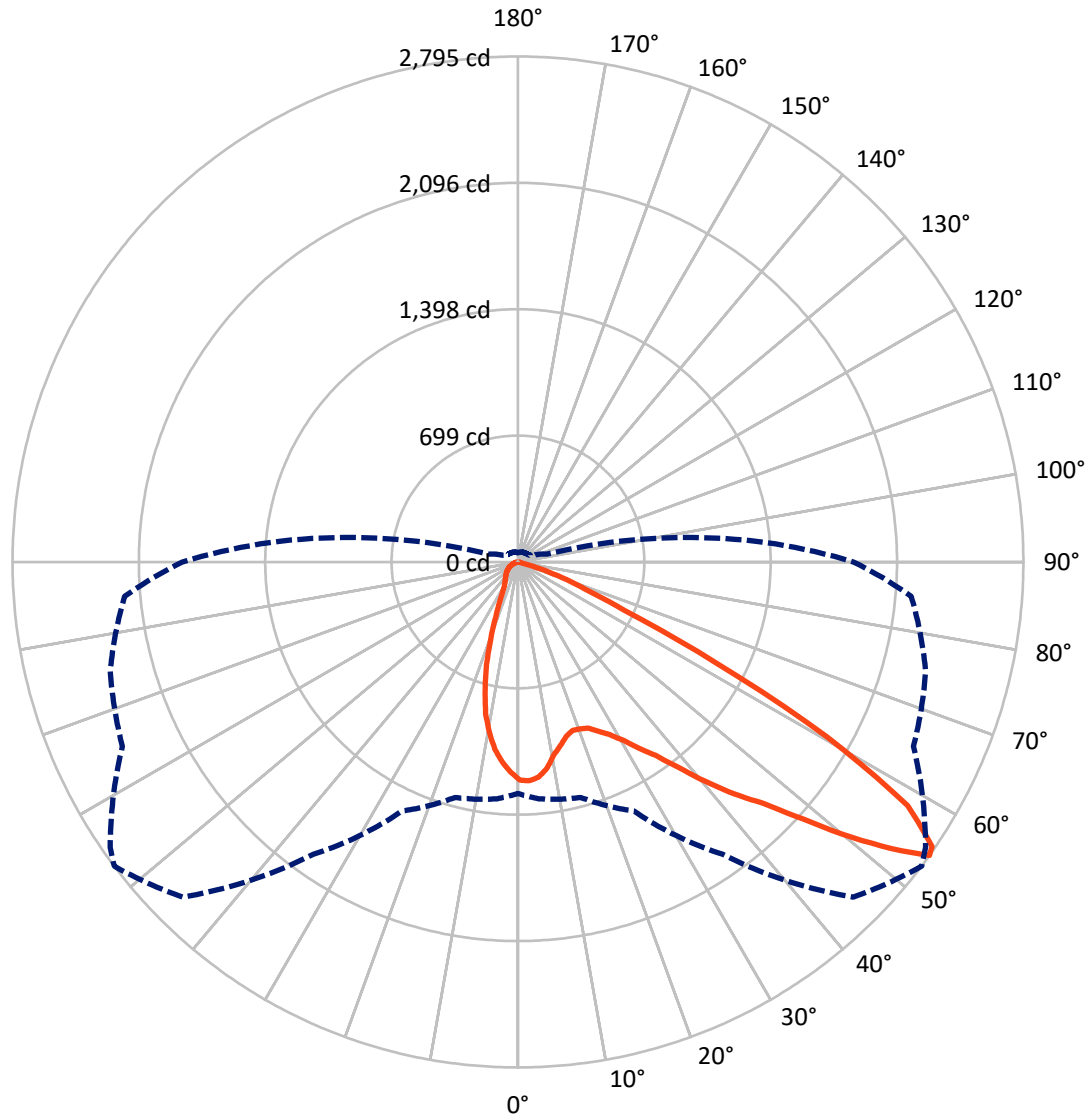
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.9 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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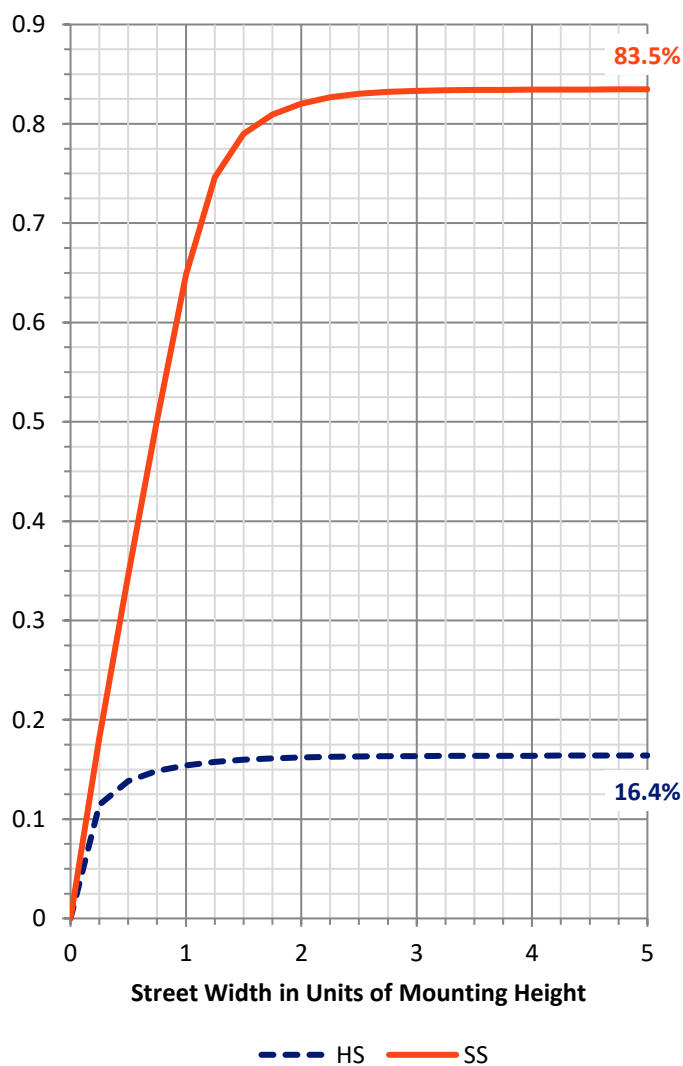
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	555.8	0.0	555.8
	% Fixture	16.5	0.0	16.5
<b>Street Side</b>	Lumens	2803.2	0.0	2803.2
	% Fixture	83.5	0.0	83.5
<b>Total</b>	Lumens	3359.0	0.0	3359.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	103.5	3.1
10°-20°	237.3	7.1
20°-30°	337.3	10.0
30°-40°	520.5	15.5
40°-50°	816.1	24.3
50°-60°	948.1	28.2
60°-70°	358.2	10.7
70°-80°	34.1	1.0
80°-90°	3.8	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°	3359.0	100.0
0°-180°	3359.0	100.0

**Coefficient of Utilization**

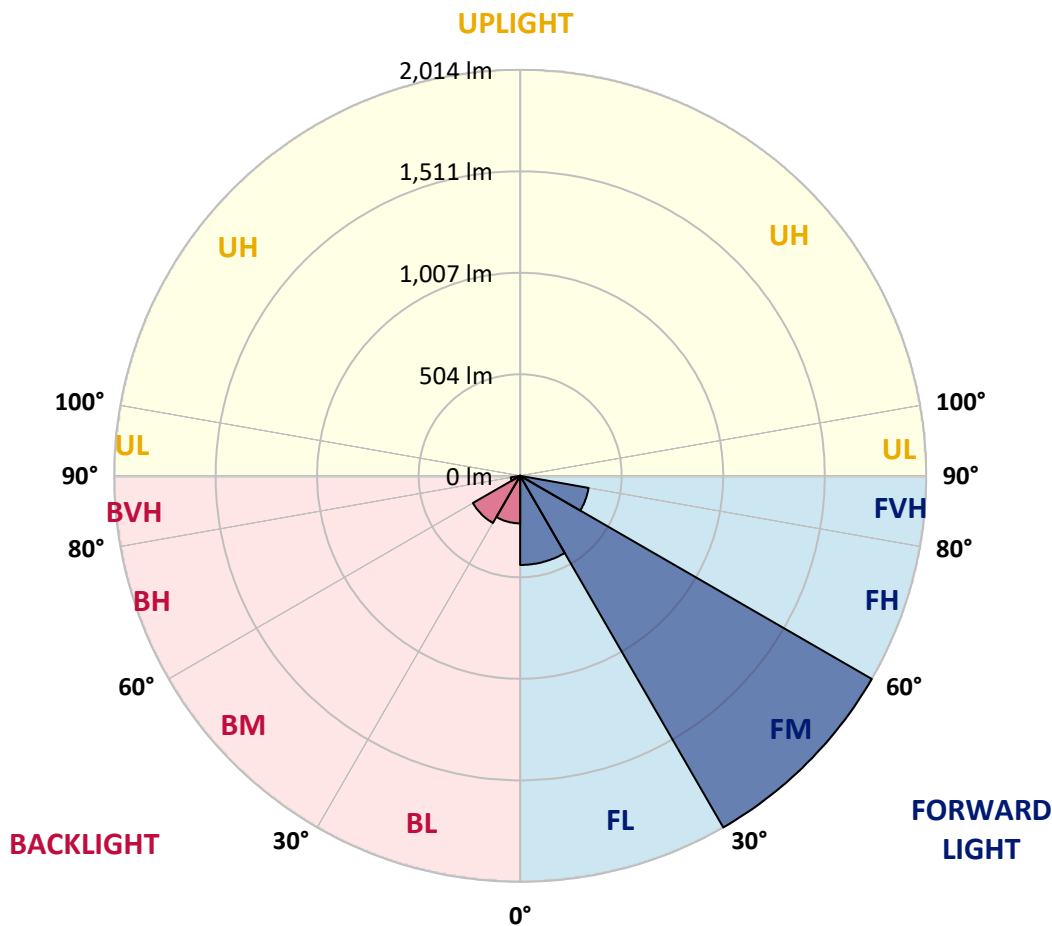


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	442.3	13.2			
FM (30°-60°)	2014.3	60.0			
FH (60°-80°)	344.7	10.3			G0/660
FVH (80°-90°)	2.0	0.1			G0/10
BL (0°-30°)	235.8	7.0	B1/500		
BM (30°-60°)	270.5	8.1	B1/1000		
BH (60°-80°)	47.6	1.4	B0/110		G0/110
BVH (80°-90°)	1.9	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°	1206.5	1206.5	1206.5	1206.5	1206.5	1206.5	1206.5	1206.5	1206.5	1206.5	1206.5
2.5°	1200.2	1189.6	1200.2	1201.5	1209.0	1215.9	1211.5	1221.5	1215.9	1209.6	1207.7
5°	1103.2	1117.6	1118.3	1140.8	1135.8	1177.1	1195.2	1190.2	1220.9	1219.0	1214.6
7.5°	1016.3	1010.6	1018.1	1044.4	1077.6	1125.1	1151.4	1150.8	1194.6	1225.9	1222.8
10°	935.5	934.9	950.6	971.2	999.4	1049.4	1085.7	1103.9	1172.1	1219.6	1226.5
12.5°	881.1	878.6	895.5	912.4	956.8	995.6	1041.9	1050.7	1128.9	1197.7	1209.0
15°	845.4	851.1	852.3	884.8	913.0	964.3	1000.6	1018.8	1108.9	1180.2	1223.4
17.5°	839.2	846.7	847.3	874.2	904.2	947.4	979.3	1003.7	1092.0	1189.0	1224.0
20°	851.7	847.3	851.1	868.0	897.4	938.7	985.0	993.1	1086.3	1193.4	1230.9
22.5°	887.4	886.1	876.7	890.5	911.1	954.3	998.1	1010.6	1102.6	1215.9	1236.5
25°	926.8	933.7	924.9	923.0	937.4	980.0	1038.2	1054.4	1157.1	1256.6	1254.1
27.5°	1000.6	993.7	993.7	985.0	981.2	1001.9	1081.3	1108.2	1217.8	1309.1	1274.1
30°	1071.3	1078.8	1073.2	1076.3	1051.3	1049.4	1142.7	1175.8	1325.4	1389.2	1316.6
32.5°	1183.3	1173.3	1182.7	1174.6	1141.4	1107.6	1225.9	1260.3	1455.6	1481.2	1380.5
35°	1276.6	1272.2	1312.3	1311.0	1257.2	1224.0	1314.1	1365.4	1546.3	1591.3	1455.6
37.5°	1409.2	1401.1	1446.8	1468.7	1420.5	1371.1	1440.5	1500.0	1630.8	1679.6	1532.5
40°	1545.7	1566.3	1627.6	1663.9	1612.6	1546.9	1595.1	1613.3	1687.1	1737.2	1585.1
42.5°	1718.4	1748.4	1811.0	1842.3	1837.9	1766.6	1752.2	1751.5	1727.8	1720.9	1623.9
45°	1884.2	1872.9	1969.3	2037.5	2092.6	2071.9	1903.6	1884.8	1792.2	1745.3	1633.9
47.5°	1956.8	1953.0	2018.8	2140.2	2327.9	2353.5	2123.9	2051.3	1901.1	1847.9	1688.3
50°	1862.9	1882.3	1947.4	2082.0	2369.8	2565.7	2394.2	2296.6	2028.1	1973.1	1817.3
52.5°	1556.3	1569.4	1631.4	1802.2	2227.1	2690.8	2653.3	2597.0	2261.6	2170.2	2041.9
54°	1279.7	1314.8	1348.5	1520.0	1973.1	2621.4	2795.3	2752.2	2413.6	2334.1	2183.3
55°	1114.5	1135.2	1159.6	1330.4	1797.2	2503.7	2779.1	2782.8	2515.6	2385.5	2278.5
57.5°	814.1	828.5	803.5	879.2	1234.0	2033.1	2541.9	2643.3	2653.3	2462.4	2336.6
60°	622.0	628.3	600.1	612.0	767.2	1395.5	1966.2	2088.2	2393.6	2152.0	1979.3
62.5°	482.5	483.7	483.1	503.7	528.8	821.0	1229.6	1337.9	1650.2	1528.1	1344.2
65°	355.4	349.8	359.8	422.4	451.2	516.3	647.7	726.5	896.7	757.2	541.3
67.5°	230.3	232.2	242.2	314.1	386.7	396.1	398.6	392.4	393.0	216.5	135.8
70°	138.3	141.4	138.3	177.7	276.6	284.1	259.7	253.4	197.7	51.3	50.7
72.5°	82.0	77.6	69.5	76.3	115.1	137.7	123.9	123.3	77.6	30.0	30.0
75°	34.4	31.3	25.7	23.2	30.7	29.4	29.4	26.3	20.7	20.0	18.8
77.5°	6.9	6.9	5.0	5.6	7.5	8.8	10.6	10.6	12.5	12.5	11.9
80°	0.0	0.6	1.9	3.8	5.6	8.1	9.4	9.4	10.6	10.6	8.8
82.5°	0.0	0.6	1.9	3.8	5.0	7.5	9.4	9.4	10.6	11.3	9.4
85°	0.0	0.6	1.9	3.1	5.0	6.3	6.3	5.6	4.4	3.8	2.5
87.5°	0.0	0.0	0.6	1.3	0.6	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°	1206.5	1206.5	1206.5	1206.5	1206.5	1206.5	1206.5	1206.5	1206.5	1206.5	1206.5
2.5°	1212.1	1211.5	1196.5	1172.1	1166.4	1145.8	1143.3	1130.8	1137.7	1114.5	1112.0
5°	1202.1	1194.6	1176.5	1160.8	1115.1	1082.6	1056.9	1025.6	1007.5	1010.6	998.7
7.5°	1216.5	1197.1	1165.2	1110.8	1055.1	998.1	967.4	903.6	880.5	846.0	841.0
10°	1201.5	1187.1	1137.7	1047.5	970.6	888.6	816.6	745.9	692.1	669.0	663.9
12.5°	1200.2	1175.2	1092.6	992.5	881.1	763.4	658.9	570.7	517.5	487.5	480.6
15°	1180.8	1150.8	1041.9	907.4	753.4	607.0	493.1	408.0	367.3	349.8	354.8
17.5°	1182.7	1137.7	991.2	817.3	627.7	445.6	336.7	292.9	282.2	286.6	286.6
20°	1180.8	1108.2	929.9	713.4	480.6	309.1	247.2	231.5	238.4	252.2	249.1
22.5°	1170.8	1094.5	873.6	603.9	353.6	229.0	198.4	199.0	209.6	226.5	230.3
25°	1178.3	1063.8	802.2	493.1	257.8	182.7	172.1	176.5	187.7	200.2	202.8
27.5°	1172.7	1041.9	727.8	383.0	188.4	157.1	156.4	161.5	166.5	175.8	175.8
30°	1179.0	1021.9	654.6	284.7	155.2	143.9	141.4	145.2	150.2	152.1	151.4
32.5°	1202.1	1006.9	570.1	212.8	137.0	131.4	131.4	131.4	130.8	133.3	133.9
35°	1252.8	1009.4	495.6	164.6	125.2	120.8	118.9	116.4	115.1	116.4	117.0
37.5°	1307.9	1008.1	418.6	140.2	116.4	112.6	108.3	104.5	103.9	105.1	103.3
40°	1332.3	1020.0	347.3	125.8	108.3	103.9	97.0	93.9	94.5	95.7	94.5
42.5°	1365.4	1023.8	301.0	114.5	100.7	93.9	89.5	85.7	85.1	87.0	86.4
45°	1364.8	1002.5	252.2	108.3	93.9	86.4	80.7	77.6	77.6	78.8	79.5
47.5°	1404.9	999.4	216.5	102.6	88.9	81.4	74.5	72.0	71.3	71.3	70.1
50°	1498.1	1043.2	189.0	96.4	82.6	75.7	70.1	67.0	64.5	63.2	62.6
52.5°	1680.2	1179.6	167.7	88.9	75.7	70.1	65.1	62.6	59.4	56.3	55.7
54°	1856.7	1320.4	166.5	82.6	70.1	66.3	62.0	60.7	56.9	52.6	51.3
55°	1936.2	1402.4	170.8	77.6	66.3	63.8	60.1	58.8	55.1	50.1	49.4
57.5°	2001.9	1434.3	168.3	64.5	60.1	59.4	56.3	54.4	50.1	43.2	41.9
60°	1611.4	1084.5	120.8	56.9	55.1	53.8	51.3	50.1	44.4	36.9	36.3
62.5°	1018.1	623.9	77.0	50.1	48.2	46.3	43.2	41.9	36.9	29.4	27.5
65°	433.7	258.4	51.9	44.4	41.3	38.2	35.7	33.8	29.4	21.9	21.3
67.5°	112.6	92.0	43.2	38.8	34.4	30.0	28.2	25.0	20.0	15.0	14.4
70°	50.7	46.3	36.3	32.5	27.5	23.2	20.7	17.5	13.1	10.0	9.4
72.5°	30.0	29.4	27.5	24.4	20.7	17.5	15.0	11.9	8.8	5.6	5.6
75°	18.8	18.1	18.8	16.9	14.4	13.1	11.3	8.1	5.0	2.5	2.5
77.5°	11.3	11.3	11.3	10.6	10.0	10.0	8.1	5.0	2.5	0.6	0.6
80°	8.8	8.8	9.4	8.8	8.8	8.8	6.9	3.8	1.3	0.0	0.0
82.5°	8.8	9.4	10.6	10.0	8.8	7.5	6.3	3.8	1.3	0.0	0.0
85°	2.5	1.9	3.1	4.4	6.3	5.6	4.4	3.1	1.3	0.0	0.0
87.5°	1.3	1.3	1.3	1.3	0.6	0.6	0.6	0.6	0.6	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)