

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: P323635

Luminaire Tested: **GLEON-SA1B-827-U-SL3-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P323635  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-23)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GLEON-SA1B-827-U-SL3-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 80 CRI, 2700K, 800mA LIGHTSQUARE WITH 16 LEDS 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: 3758 lumens  
Efficiency: N/A  
Efficacy: 85.4 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B1 - U0 - G1

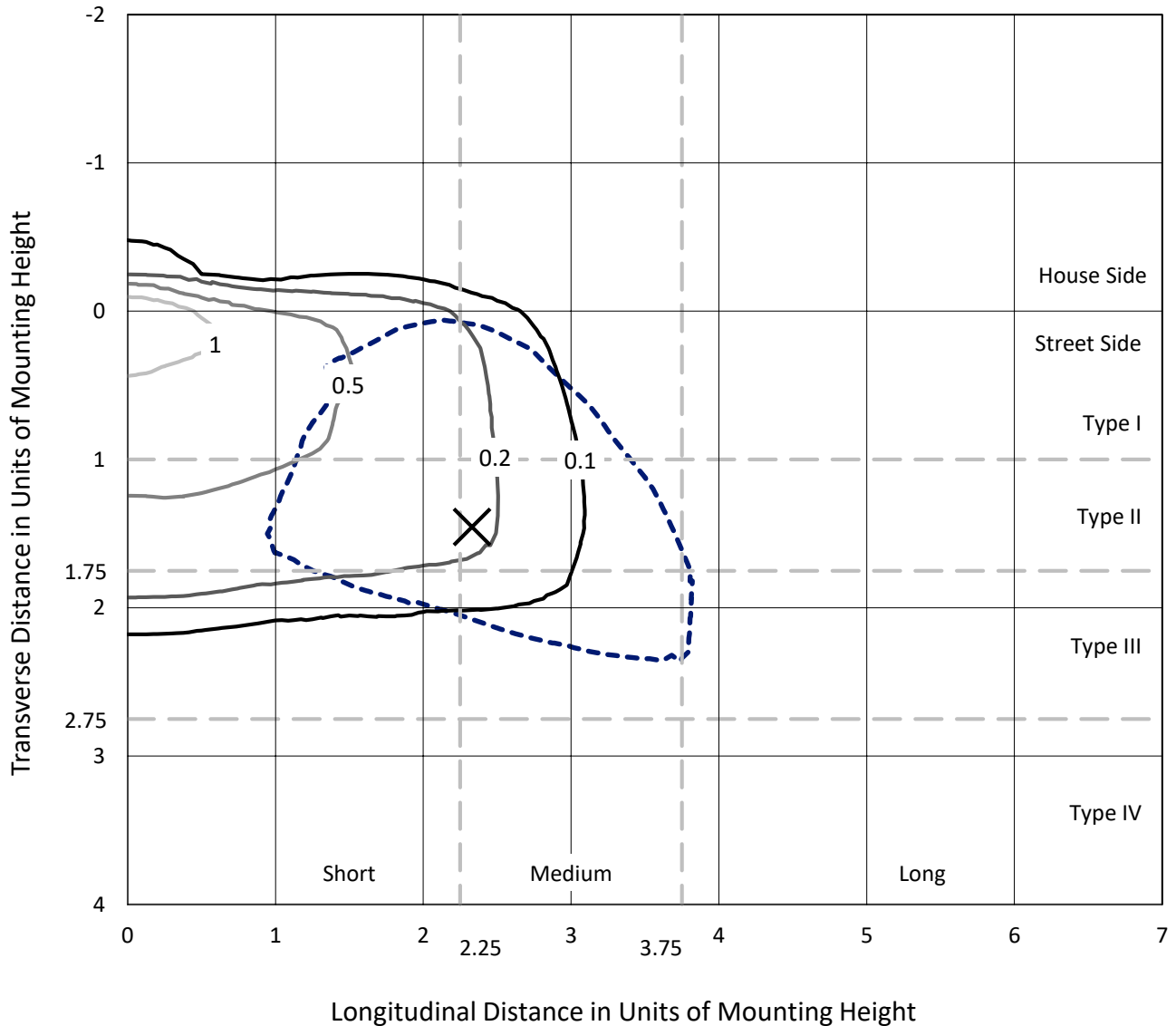
Input Watts (W): 44  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

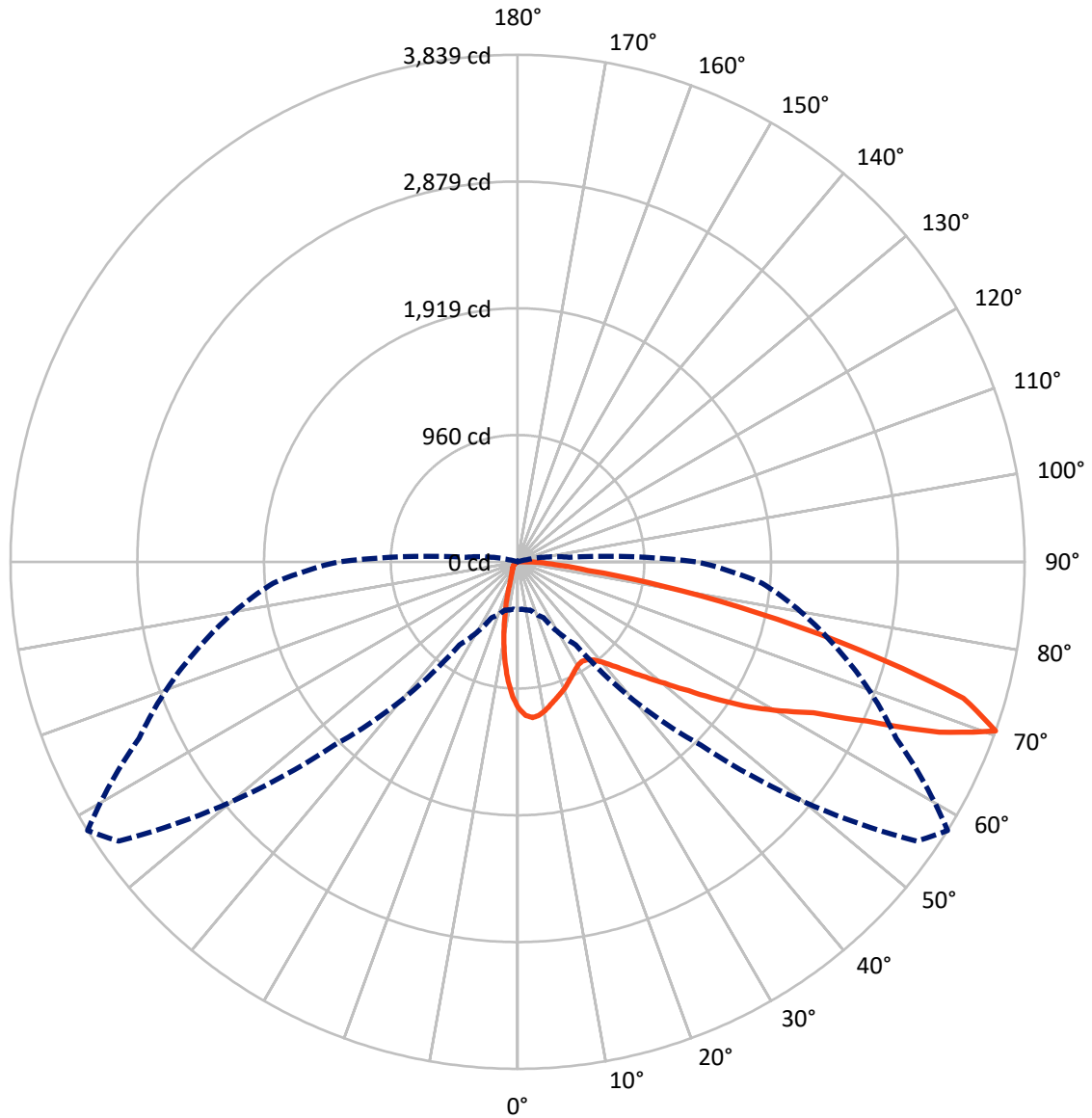
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.8 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

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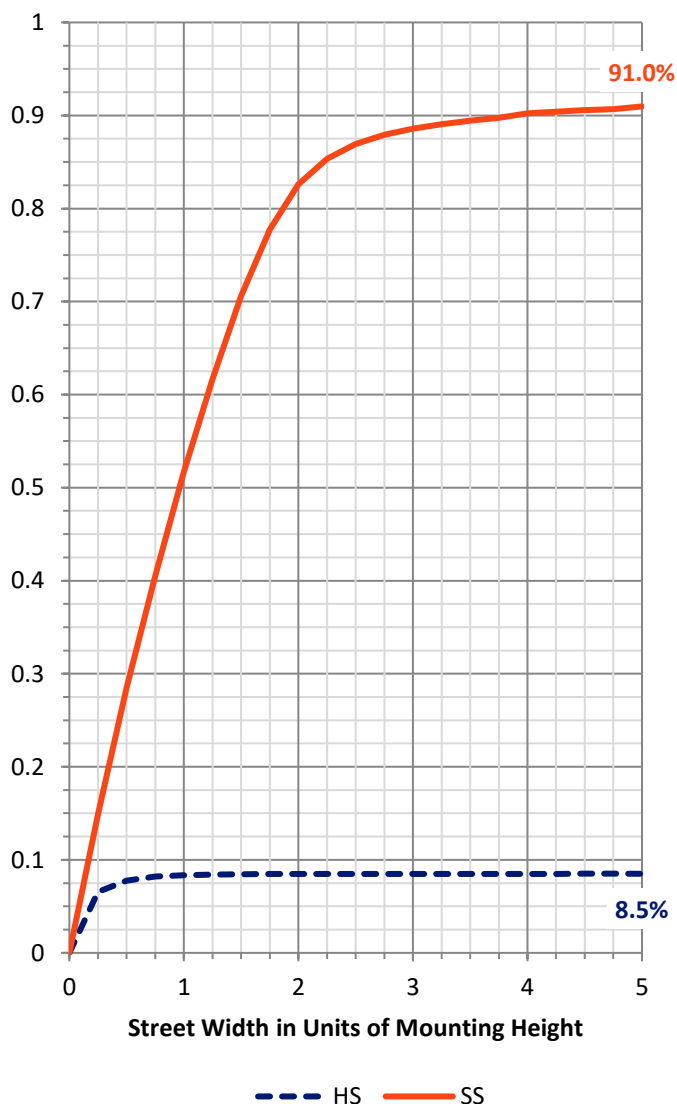
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	321.6	0.0	321.6
	% Fixture	8.6	0.0	8.6
<b>Street Side</b>	Lumens	3436.4	0.0	3436.4
	% Fixture	91.4	0.0	91.4
<b>Total</b>	Lumens	3758.0	0.0	3758.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	90.8	2.4
10°-20°	190.5	5.1
20°-30°	250.5	6.7
30°-40°	331.7	8.8
40°-50°	495.8	13.2
50°-60°	794.3	21.1
60°-70°	1001.2	26.6
70°-80°	540.0	14.4
80°-90°	63.2	1.7
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°	3758.0	100.0
0°-180°	3758.0	100.0

**Coefficient of Utilization**

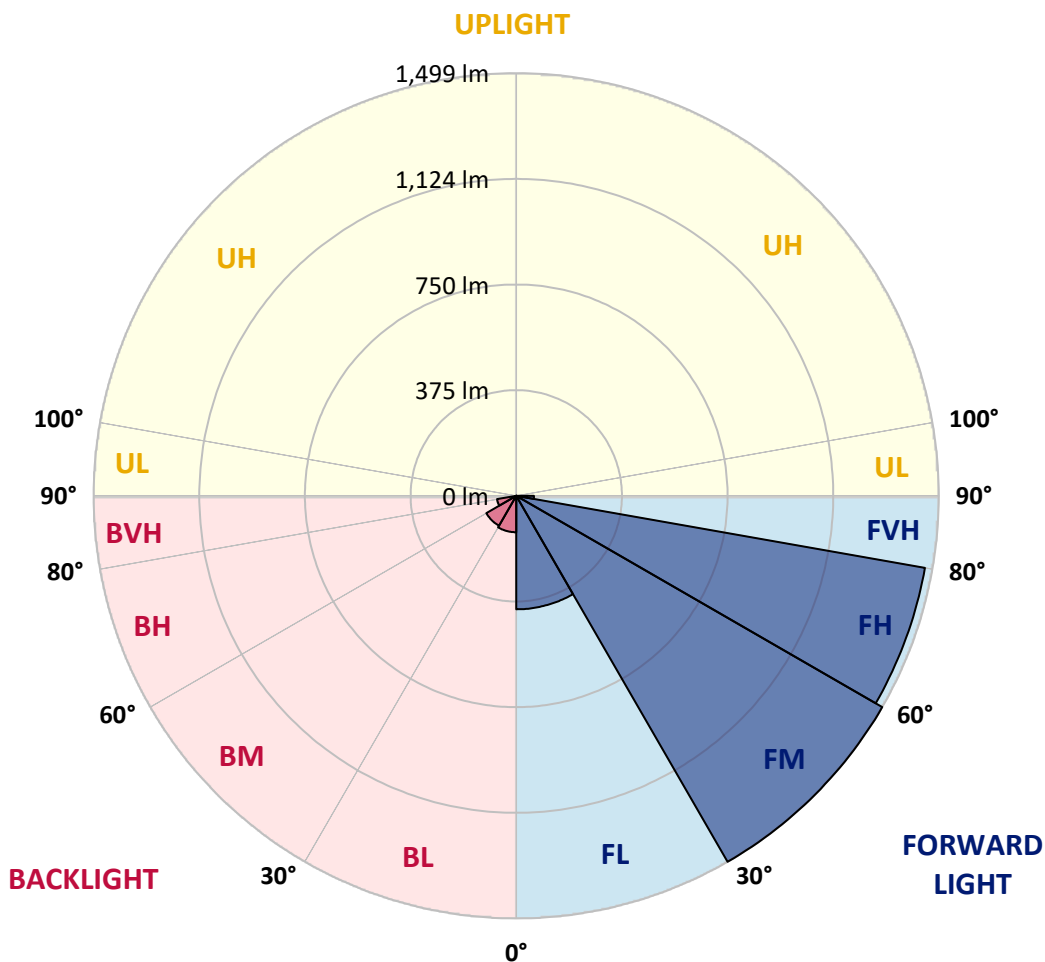


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	402.6	10.7			
FM (30°-60°)	1499.1	39.9			
FH (60°-80°)	1472.1	39.2			G1/1800
FVH (80°-90°)	62.7	1.7			G1/100
BL (0°-30°)	129.2	3.4	B1/500		
BM (30°-60°)	122.7	3.3	B0/220		
BH (60°-80°)	69.2	1.8	B0/110		G0/110
BVH (80°-90°)	0.5	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





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	1110.1	1110.1	1110.1	1110.1	1110.1	1110.1	1110.1	1110.1	1110.1	1110.1	1110.1
2.5°	1202.1	1199.2	1198.1	1196.2	1189.0	1182.0	1168.1	1164.2	1155.4	1134.6	1112.6
5°	1203.1	1202.9	1206.2	1205.4	1202.9	1199.6	1189.6	1184.5	1169.6	1139.9	1099.6
7.5°	1145.1	1148.1	1155.4	1161.3	1168.2	1177.1	1178.4	1173.4	1161.2	1129.2	1075.7
10°	1067.3	1072.0	1082.3	1094.0	1112.0	1129.8	1145.7	1145.1	1140.9	1109.3	1047.0
12.5°	989.3	994.8	1006.6	1024.0	1049.5	1078.5	1107.0	1110.9	1117.9	1091.5	1020.4
15°	921.0	925.7	937.4	958.7	990.2	1029.3	1071.0	1078.2	1096.3	1077.6	998.2
17.5°	863.0	866.0	874.6	898.2	934.8	982.1	1036.3	1050.4	1077.4	1066.7	979.0
20°	822.6	823.0	828.7	845.2	881.8	934.8	1000.4	1020.6	1057.4	1057.3	959.1
22.5°	802.6	801.0	802.1	811.6	838.5	889.6	964.5	988.4	1039.5	1049.3	939.0
25°	798.8	797.6	794.4	795.7	811.9	850.1	928.2	955.9	1023.7	1044.5	921.5
27.5°	810.5	811.8	806.5	800.9	802.1	824.4	896.0	928.0	1010.9	1044.5	909.1
30°	834.1	834.8	830.9	823.5	813.7	817.3	873.7	905.7	1004.5	1051.7	901.3
32.5°	860.2	863.7	863.2	857.3	843.2	828.7	868.4	897.6	1004.0	1067.6	900.5
35°	892.6	896.5	903.0	901.8	887.1	863.2	886.5	909.5	1013.2	1093.8	909.0
37.5°	927.0	932.9	947.0	953.7	944.1	917.1	927.1	943.5	1037.9	1136.3	930.4
40°	960.2	967.0	992.6	1019.0	1011.8	984.0	988.7	1001.8	1081.8	1197.4	971.0
42.5°	992.9	1002.9	1040.6	1084.0	1092.6	1070.4	1072.9	1083.4	1147.0	1281.5	1037.4
45°	1032.0	1043.2	1099.0	1152.6	1175.6	1165.9	1176.5	1183.4	1232.1	1392.6	1127.0
47.5°	1089.3	1102.3	1170.7	1231.8	1272.1	1278.4	1299.8	1304.3	1339.8	1522.0	1243.7
50°	1201.2	1204.8	1266.7	1322.1	1380.3	1417.8	1442.2	1445.6	1470.1	1663.4	1389.5
52.5°	1342.0	1344.3	1379.3	1416.5	1482.6	1559.2	1616.2	1621.1	1626.2	1801.2	1533.4
55°	1481.8	1481.5	1504.7	1526.5	1602.2	1713.4	1837.2	1840.2	1803.1	1932.0	1643.4
57.5°	1569.2	1577.6	1612.8	1640.9	1746.6	1889.2	2061.0	2071.9	1988.9	2028.9	1752.2
60°	1541.4	1545.4	1623.4	1727.5	1926.4	2139.1	2287.4	2290.2	2128.6	2125.7	1889.7
62.5°	1313.2	1315.4	1437.9	1652.5	2017.5	2463.2	2560.5	2514.7	2289.3	2259.9	2054.2
65°	900.1	914.3	1016.6	1281.8	1850.2	2666.5	2983.4	2907.6	2534.1	2453.3	2203.0
67.5°	530.0	527.1	577.7	773.0	1358.9	2531.5	3518.3	3443.0	2868.1	2582.9	2159.4
70°	362.1	360.0	379.4	468.0	767.1	1963.8	3686.6	3838.6	3162.9	2495.7	1858.4
72.5°	258.5	259.6	288.1	363.6	481.6	1144.2	3170.3	3530.1	3070.6	2175.7	1412.6
75°	175.5	178.5	219.4	298.3	422.2	582.1	2249.7	2683.5	2500.4	1581.2	811.9
77.5°	94.4	97.7	146.0	240.3	381.8	404.4	1447.2	1846.9	1570.6	710.8	235.3
80°	39.4	41.3	68.3	174.7	329.9	355.2	851.5	1119.9	669.3	140.2	52.5
82.5°	17.0	18.0	28.4	104.2	246.6	299.9	450.8	538.8	202.8	30.8	26.4
85°	3.3	3.4	11.7	55.2	157.4	169.2	292.2	286.4	91.1	13.3	19.2
87.5°	0.0	0.0	2.8	17.3	46.3	92.2	178.3	176.1	30.9	6.4	7.2
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°	1110.1	1110.1	1110.1	1110.1	1110.1	1110.1	1110.1	1110.1	1110.1	1110.1	1110.1
2.5°	1101.3	1090.6	1067.9	1039.9	1018.5	994.9	976.2	952.4	942.1	942.6	937.0
5°	1076.7	1054.5	1004.3	941.0	892.3	841.9	798.7	755.5	730.1	721.8	714.0
7.5°	1041.3	1006.2	926.2	828.7	746.2	665.5	595.4	533.6	494.6	475.5	468.5
10°	1001.5	952.1	836.3	707.9	590.1	481.0	390.0	311.0	279.4	258.0	252.5
12.5°	966.5	899.6	748.5	584.0	444.1	312.5	225.8	176.6	155.2	146.7	145.3
15°	933.5	850.5	664.0	471.8	307.5	192.4	143.6	126.9	121.9	120.5	120.5
17.5°	902.4	803.8	581.3	361.3	203.5	134.9	118.9	115.2	113.6	113.4	113.6
20°	869.9	757.1	500.0	264.7	142.0	114.2	109.9	107.8	107.4	107.4	107.4
22.5°	838.8	710.4	421.0	189.1	113.9	104.2	102.0	100.6	100.2	100.0	99.7
25°	809.0	666.0	343.8	133.6	100.0	95.5	93.6	91.7	90.3	89.5	89.1
27.5°	784.4	626.5	271.9	107.2	90.3	86.4	84.1	81.3	77.8	76.3	75.6
30°	764.9	590.4	209.5	90.5	81.3	77.4	73.8	68.9	63.9	61.3	61.1
32.5°	749.6	554.9	159.1	80.0	73.1	68.3	63.1	57.0	51.3	48.3	48.1
35°	742.1	523.6	121.6	72.3	65.9	59.8	53.4	46.7	41.1	38.3	38.0
37.5°	747.1	497.2	94.9	65.9	59.8	52.8	45.3	38.3	33.3	30.8	30.6
40°	765.4	480.4	77.0	60.5	54.7	46.1	38.0	31.4	27.2	25.2	25.0
42.5°	804.3	474.1	65.8	55.9	49.7	39.8	31.6	25.9	22.0	20.6	20.3
45°	869.3	483.3	58.1	51.6	44.5	33.9	26.1	21.3	17.8	16.7	16.6
47.5°	955.9	507.5	52.7	47.3	39.8	28.6	21.7	17.2	14.5	13.4	13.3
50°	1067.4	546.0	48.1	43.1	35.5	24.2	18.0	13.6	11.3	10.5	10.5
52.5°	1188.9	591.8	44.1	39.2	31.1	20.2	14.5	10.5	8.9	8.0	8.0
55°	1289.2	631.8	39.7	36.3	25.8	16.7	11.1	8.0	6.6	6.1	6.1
57.5°	1389.3	674.4	34.7	31.1	20.6	13.6	8.4	5.9	4.8	4.5	4.5
60°	1519.2	726.6	29.8	25.3	16.3	10.3	6.3	4.2	3.6	3.4	3.4
62.5°	1662.0	757.3	25.5	20.3	12.7	7.7	4.5	2.8	2.7	2.7	2.5
65°	1749.4	714.0	21.4	16.3	9.8	5.8	3.0	2.0	2.3	2.2	1.9
67.5°	1638.0	559.0	17.5	12.7	7.7	4.4	1.9	1.4	2.5	2.0	1.6
70°	1356.2	391.3	13.6	8.9	6.1	3.8	1.3	0.9	2.7	2.0	1.3
72.5°	1014.9	261.9	10.8	5.9	4.5	3.3	1.1	0.5	2.3	1.7	1.1
75°	554.6	105.5	8.6	3.8	2.8	2.3	0.8	0.3	1.6	1.3	0.8
77.5°	146.0	27.8	6.3	2.5	1.6	0.9	0.5	0.2	0.8	0.6	0.3
80°	37.2	10.8	4.1	1.7	1.1	0.5	0.0	0.0	0.2	0.0	0.0
82.5°	19.8	4.5	2.5	1.3	0.6	0.0	0.0	0.0	0.0	0.0	0.0
85°	15.0	3.0	1.4	0.8	0.2	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	5.8	0.9	0.5	0.0	0.0	0.0	0.0	0.0	0.0	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)