

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: P322348

Luminaire Tested: **GLEON-SA4A-827-U-T3-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P322348  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-15)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GLEON-SA4A-827-U-T3-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 10071 lumens  
Efficiency: N/A  
Efficacy: 78.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G2

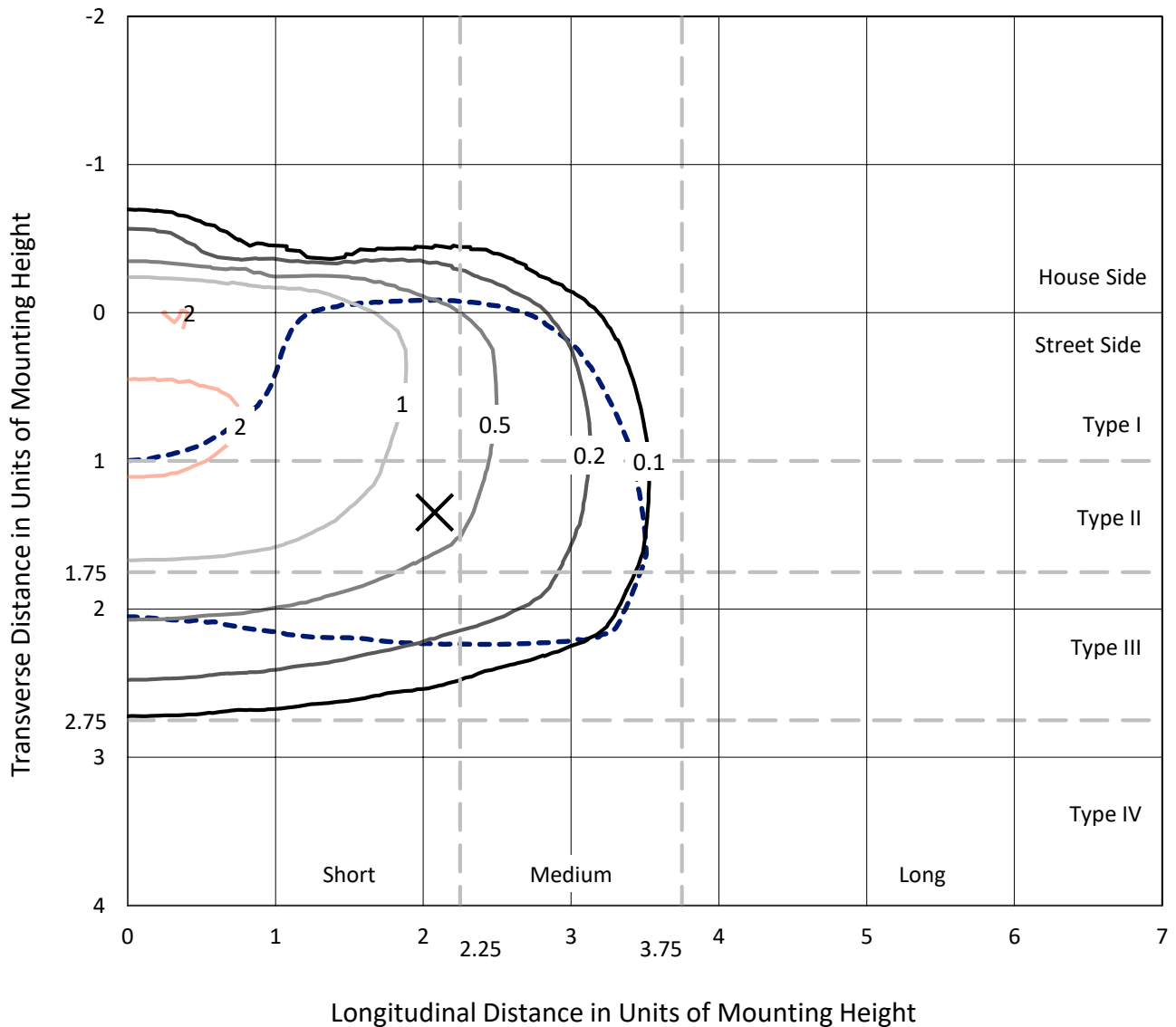
Input Watts (W): 129  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

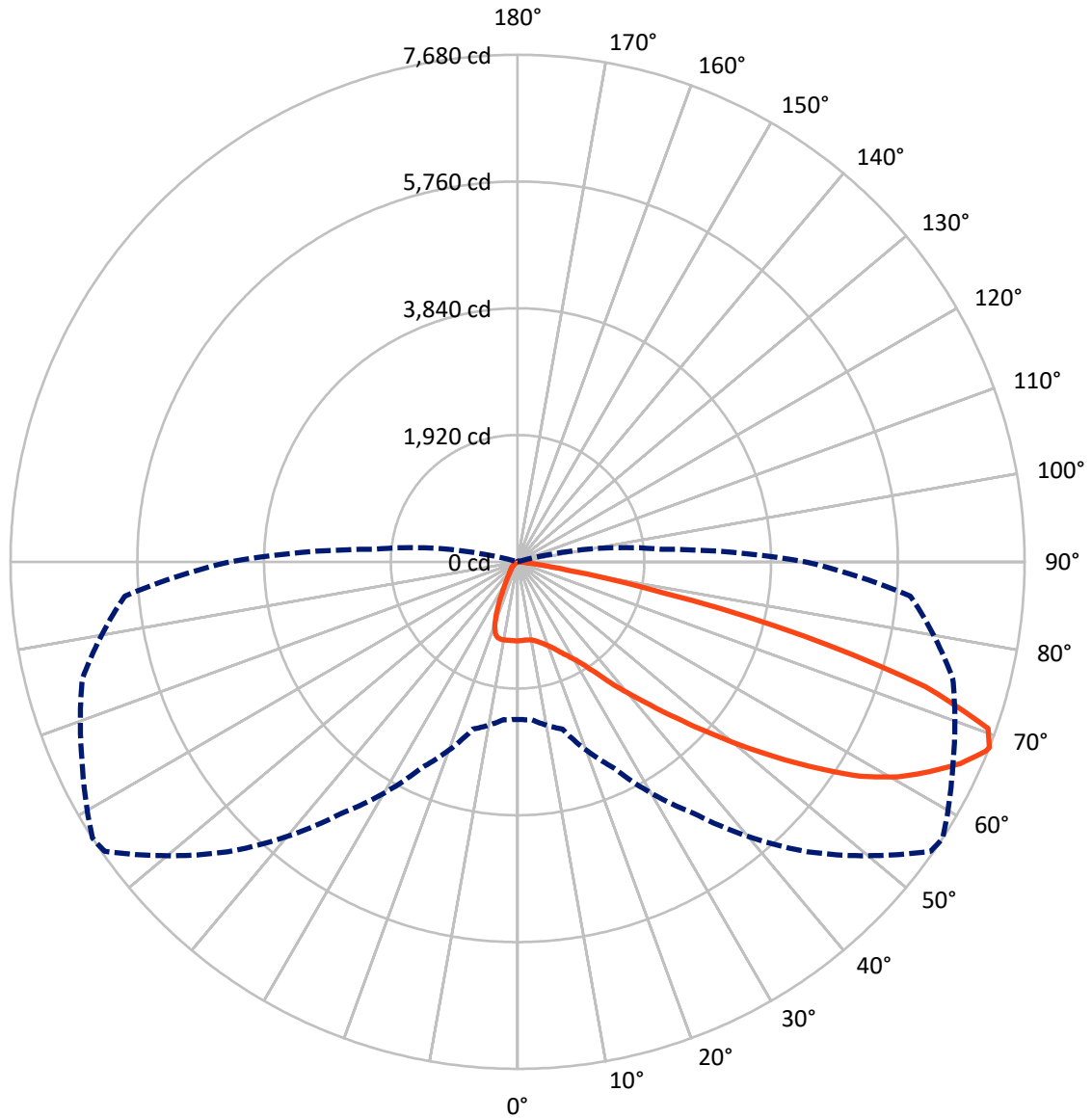
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.5 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral    - - - Horizontal Cone Through 68-Deg Vertical

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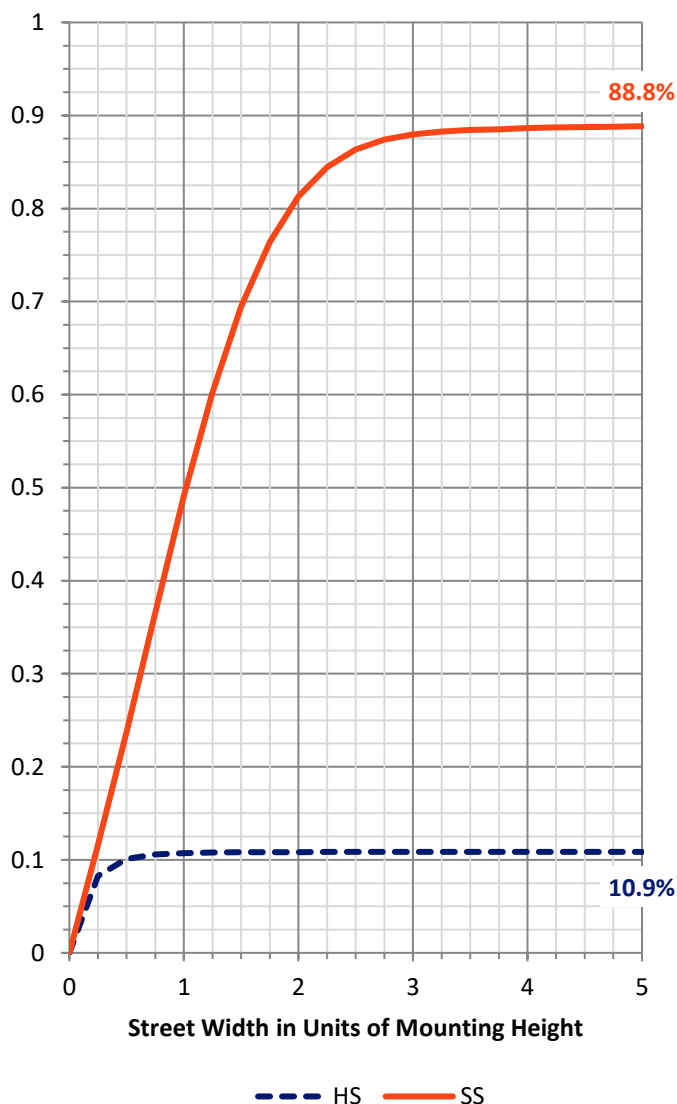
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1104.3	0.0	1104.3
	% Fixture	11.0	0.0	11.0
<b>Street Side</b>	Lumens	8966.6	0.0	8966.6
	% Fixture	89.0	0.0	89.0
<b>Total</b>	Lumens	10071.0	0.0	10071.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	112.0	1.1
10°-20°	310.3	3.1
20°-30°	535.4	5.3
30°-40°	924.0	9.2
40°-50°	1580.6	15.7
50°-60°	2528.7	25.1
60°-70°	2921.7	29.0
70°-80°	1116.4	11.1
80°-90°	41.9	0.4
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°	10071.0	100.0
0°-180°	10071.0	100.0

**Coefficient of Utilization**



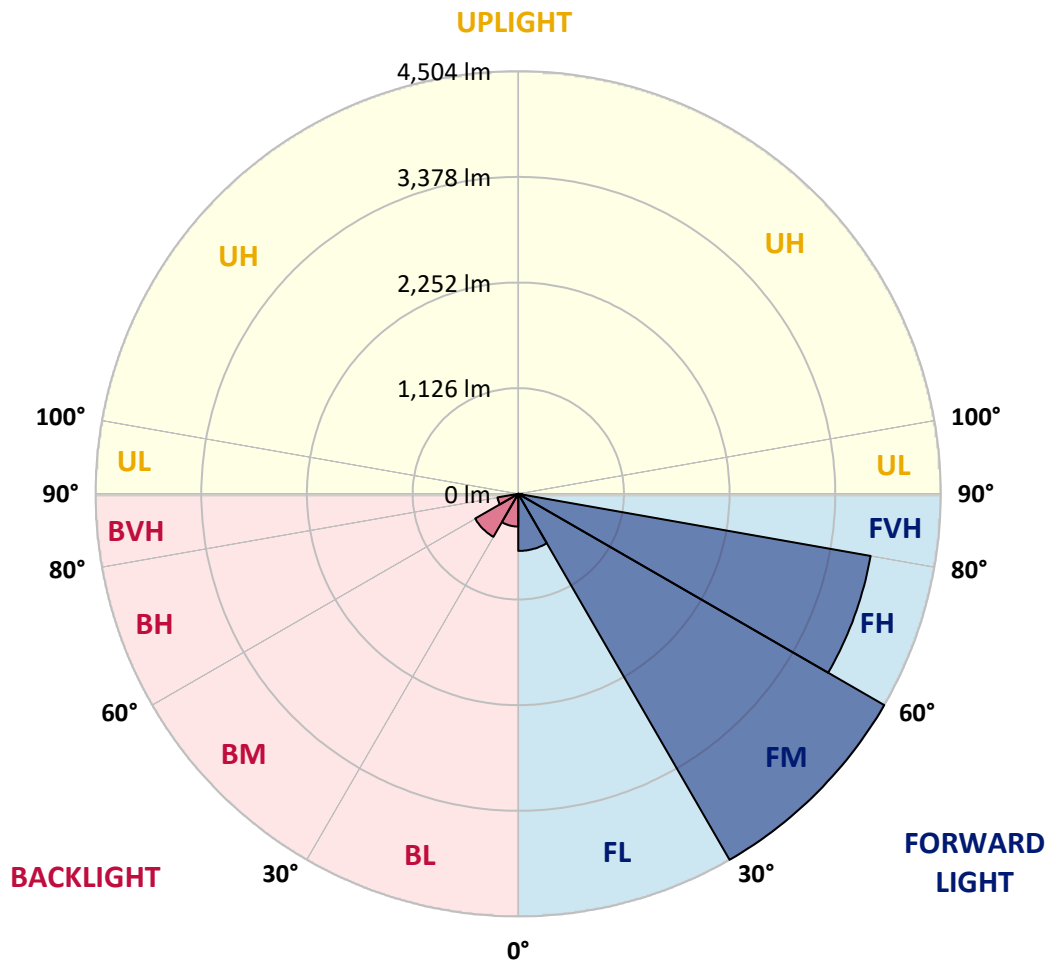
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	608.7	6.0			
FM (30°-60°)	4503.7	44.7			
FH (60°-80°)	3813.2	37.9			G2/5000
FVH (80°-90°)	41.1	0.4			G1/100
BL (0°-30°)	349.0	3.5	B1/500		
BM (30°-60°)	529.7	5.3	B1/1000		
BH (60°-80°)	224.9	2.2	B1/500		G1/500
BVH (80°-90°)	0.8	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°	57°	65°	75°	85°
0°	1196.7	1196.7	1196.7	1196.7	1196.7	1196.7	1196.7	1196.7	1196.7	1196.7	1196.7
2.5°	1168.6	1173.8	1177.7	1180.0	1182.9	1189.1	1191.0	1193.8	1195.3	1195.3	1198.6
5°	1122.4	1128.1	1136.2	1142.9	1156.2	1173.4	1185.7	1190.5	1199.1	1206.7	1211.0
7.5°	1079.6	1086.2	1095.7	1111.5	1134.3	1161.9	1187.7	1194.3	1211.0	1227.2	1235.3
10°	1051.9	1057.2	1069.6	1091.9	1121.9	1160.5	1196.7	1204.8	1233.4	1260.5	1275.8
12.5°	1042.4	1047.2	1060.0	1085.3	1122.4	1167.7	1217.7	1229.6	1271.5	1311.0	1332.4
15°	1056.2	1057.2	1071.0	1094.8	1131.5	1185.3	1252.4	1266.7	1319.6	1371.0	1397.7
17.5°	1109.6	1105.3	1112.4	1122.9	1151.9	1208.6	1289.1	1310.5	1381.0	1441.5	1466.7
20°	1242.9	1242.9	1226.7	1198.1	1198.6	1244.8	1338.6	1362.9	1449.1	1519.1	1541.9
22.5°	1471.0	1466.7	1434.3	1364.3	1300.0	1307.2	1399.1	1430.5	1531.0	1605.8	1613.4
25°	1745.3	1740.0	1690.0	1591.5	1480.0	1408.1	1481.0	1517.2	1628.6	1694.8	1679.1
27.5°	2035.8	2031.5	1982.0	1859.6	1701.0	1569.1	1578.6	1612.9	1728.1	1793.4	1743.4
30°	2317.2	2318.6	2269.6	2143.9	1964.3	1774.3	1702.4	1722.4	1824.8	1891.0	1819.6
32.5°	2584.8	2586.7	2544.4	2403.9	2236.3	2012.9	1873.9	1868.6	1937.2	2002.4	1920.5
35°	2823.4	2828.2	2799.1	2690.1	2512.5	2278.6	2096.2	2083.9	2096.7	2170.5	2075.3
37.5°	3053.4	3056.3	3034.4	2942.5	2793.9	2570.5	2377.2	2359.6	2332.0	2388.6	2279.6
40°	3305.3	3298.2	3272.9	3189.6	3062.0	2892.9	2679.1	2648.6	2600.5	2651.0	2548.2
42.5°	3539.6	3531.5	3535.8	3441.5	3333.9	3224.4	3031.0	2978.7	2950.6	3008.7	2877.7
45°	3832.5	3828.2	3842.5	3760.6	3673.4	3593.9	3434.4	3377.2	3364.9	3433.0	3276.3
47.5°	4121.5	4132.0	4176.3	4141.5	4106.3	4036.3	3861.5	3835.8	3843.4	3925.8	3696.8
50°	4362.5	4374.9	4496.3	4536.3	4587.3	4546.3	4371.1	4355.4	4385.4	4459.6	4149.2
52.5°	4536.8	4562.0	4713.0	4897.3	5083.0	5110.6	4935.9	4921.6	4962.0	4973.5	4498.7
55°	4657.8	4680.1	4851.1	5188.2	5566.3	5685.4	5576.8	5521.6	5514.0	5401.1	4866.3
57.5°	4679.2	4676.8	4922.5	5376.3	5945.4	6252.6	6184.0	6129.7	5973.5	5796.4	5287.8
60°	4558.2	4572.0	4857.3	5441.6	6183.5	6681.6	6686.9	6616.4	6373.0	6180.6	5696.4
62.5°	4185.8	4242.0	4530.1	5270.6	6180.6	6854.5	7055.4	7001.6	6710.7	6495.4	6110.6
65°	3582.0	3602.0	3876.8	4684.9	5763.0	6782.1	7387.4	7367.4	7015.0	6801.1	6323.5
67.5°	2615.8	2572.5	2861.0	3689.2	4879.2	6360.2	7625.5	7650.7	7249.7	6864.0	6096.8
68°	2387.2	2400.1	2624.8	3443.0	4647.7	6211.1	7641.2	7679.7	7273.1	6823.0	5973.0
70°	1422.9	1447.7	1648.1	2370.5	3535.8	5367.8	7471.6	7559.7	7134.0	6400.7	5166.3
72.5°	363.3	392.9	582.4	1061.0	2019.6	3782.0	6307.3	6456.4	6194.0	5192.5	3487.7
75°	149.5	157.1	208.1	349.5	752.4	1703.9	4157.3	4476.3	4293.9	3108.7	1576.2
77.5°	103.3	108.6	133.8	193.8	325.7	577.6	2038.2	2268.6	2043.9	1061.0	343.8
80°	74.3	78.6	95.7	129.1	187.1	206.2	664.3	768.1	610.0	232.9	85.2
82.5°	44.3	47.6	71.4	91.9	113.8	98.6	165.2	187.6	176.7	115.7	38.1
85°	21.9	25.7	48.1	65.7	61.4	41.4	50.5	56.2	69.5	70.5	20.5
87.5°	1.4	2.9	28.1	39.5	17.1	9.5	14.8	18.1	24.8	34.8	8.6
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°	1196.7	1196.7	1196.7	1196.7	1196.7	1196.7	1196.7	1196.7	1196.7	1196.7	1196.7
2.5°	1200.0	1200.5	1197.2	1195.7	1196.7	1191.0	1188.6	1189.6	1189.6	1191.0	1188.6
5°	1211.9	1211.9	1206.2	1198.6	1194.3	1183.4	1176.2	1174.3	1172.9	1171.9	1170.0
7.5°	1237.7	1234.8	1224.8	1208.1	1193.8	1170.0	1151.9	1142.4	1137.7	1135.7	1134.3
10°	1279.1	1273.8	1257.2	1226.2	1193.4	1151.0	1111.5	1083.4	1060.0	1050.5	1044.8
12.5°	1334.8	1327.2	1299.1	1247.7	1190.0	1111.9	1026.2	943.8	867.2	835.7	820.0
15°	1399.1	1388.1	1343.8	1265.7	1170.5	1023.8	837.6	693.4	587.2	547.2	530.0
17.5°	1464.3	1450.0	1382.9	1277.2	1111.9	841.5	587.6	443.8	372.9	353.8	347.2
20°	1530.0	1509.1	1416.7	1268.6	979.6	606.7	387.6	324.3	303.8	298.1	296.2
22.5°	1592.4	1560.0	1447.2	1235.3	775.7	407.2	306.7	286.7	280.0	276.7	275.7
25°	1646.7	1601.5	1473.9	1132.4	549.1	307.6	276.2	269.5	261.0	254.8	255.2
27.5°	1697.7	1642.9	1490.0	962.9	366.2	262.9	255.7	246.7	231.0	221.9	221.9
30°	1759.1	1698.1	1501.9	741.0	269.5	232.4	226.7	212.9	191.4	179.5	179.5
32.5°	1851.5	1782.0	1494.3	520.0	223.3	204.3	191.0	171.9	148.6	137.1	136.7
35°	1992.9	1911.5	1440.0	341.0	197.1	177.6	156.2	132.9	112.4	102.9	102.4
37.5°	2183.4	2084.8	1318.1	243.8	176.7	152.9	127.1	101.4	86.2	80.0	79.5
40°	2430.5	2286.3	1143.8	197.6	157.6	129.1	98.1	78.6	68.1	63.3	63.8
42.5°	2727.2	2502.0	934.8	170.5	139.1	106.2	76.7	61.9	55.2	51.9	51.0
45°	3056.8	2714.8	715.7	151.9	120.5	85.7	60.0	49.0	43.8	41.9	41.9
47.5°	3419.1	2922.0	523.8	135.7	100.5	66.2	48.1	40.0	35.7	34.3	33.8
50°	3748.2	3065.8	377.6	118.6	82.4	52.4	39.0	33.3	30.5	28.6	28.6
52.5°	4022.5	3111.0	278.1	100.0	66.7	41.9	32.4	28.6	25.7	24.3	24.3
55°	4263.9	3092.5	206.7	82.4	53.8	34.3	27.6	24.3	21.9	20.5	20.5
57.5°	4495.4	3032.5	154.3	67.1	43.3	27.6	23.3	20.5	18.1	17.1	17.1
60°	4684.4	2932.5	114.8	54.3	34.8	22.4	19.5	16.7	14.8	13.3	13.3
62.5°	4837.8	2822.0	84.3	44.8	27.6	17.6	15.2	13.8	11.0	9.5	9.5
65°	4838.7	2638.6	63.3	37.1	21.4	13.8	11.4	11.0	7.1	5.7	5.2
67.5°	4488.7	2274.8	48.6	31.9	16.7	10.5	8.6	9.0	3.8	2.4	1.9
68°	4361.6	2182.4	45.7	31.4	15.7	10.0	8.1	9.0	3.3	1.9	1.4
70°	3677.2	1736.2	36.7	30.5	13.8	7.6	6.7	9.0	2.9	1.4	1.0
72.5°	2352.0	1007.6	27.1	24.3	10.5	5.7	4.3	8.1	2.9	1.0	0.5
75°	1001.0	312.4	18.6	17.1	6.2	4.3	2.9	5.2	1.9	0.5	0.0
77.5°	211.0	70.5	11.0	10.5	4.3	2.9	1.9	1.4	0.5	0.0	0.0
80°	54.3	20.5	5.7	5.2	2.4	1.4	1.0	0.0	0.0	0.0	0.0
82.5°	17.1	8.1	3.3	2.4	1.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	8.6	4.8	1.9	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	4.8	1.4	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)