

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: P452653

Luminaire Tested: **GALN-SA3C-760-U-T4W-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P452653  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-27)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA3C-760-U-T4W-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 70 CRI, 5700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 15182 lumens  
Efficiency: N/A  
Efficacy: 94.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G3

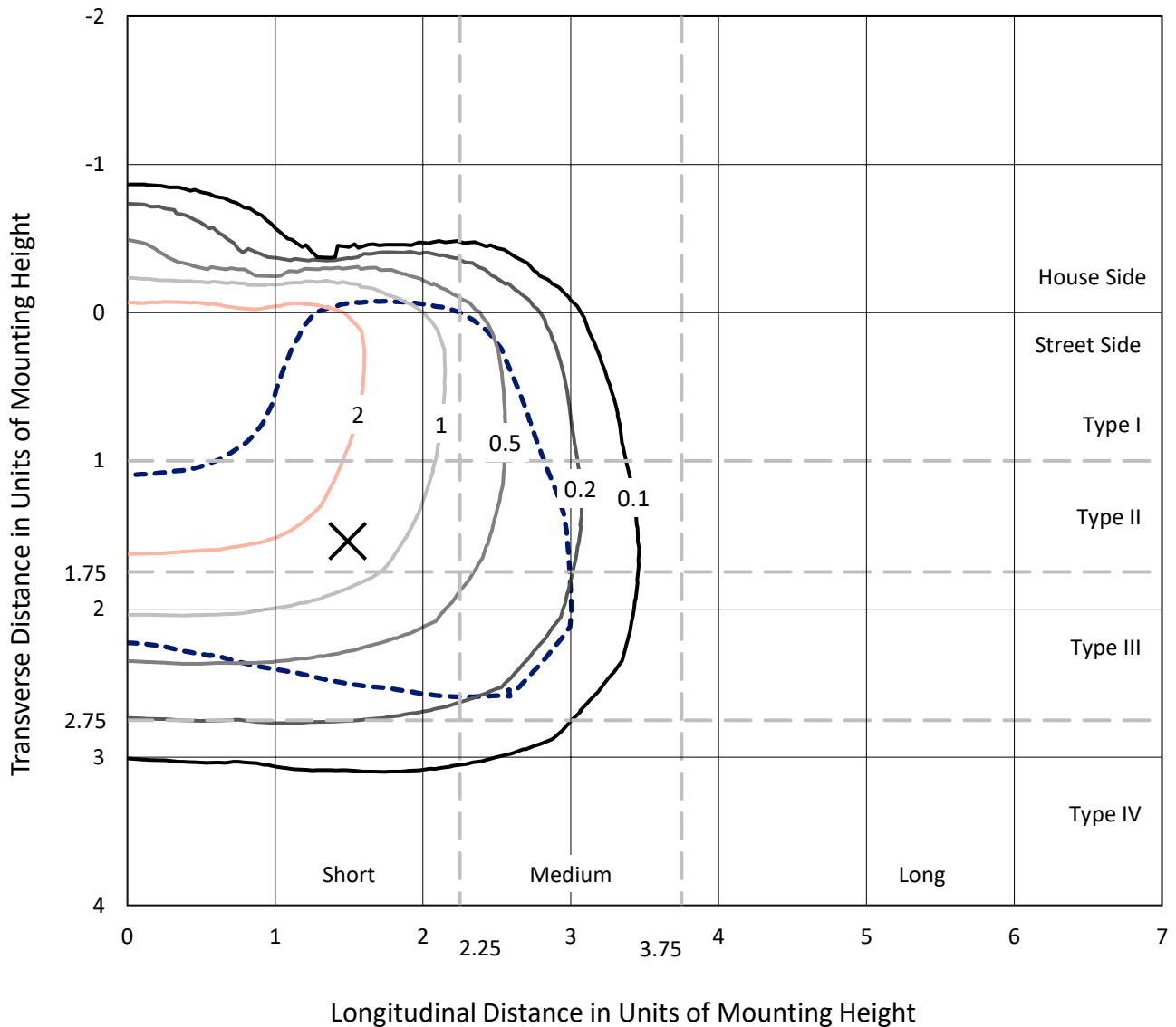
Input Watts (W): 160  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

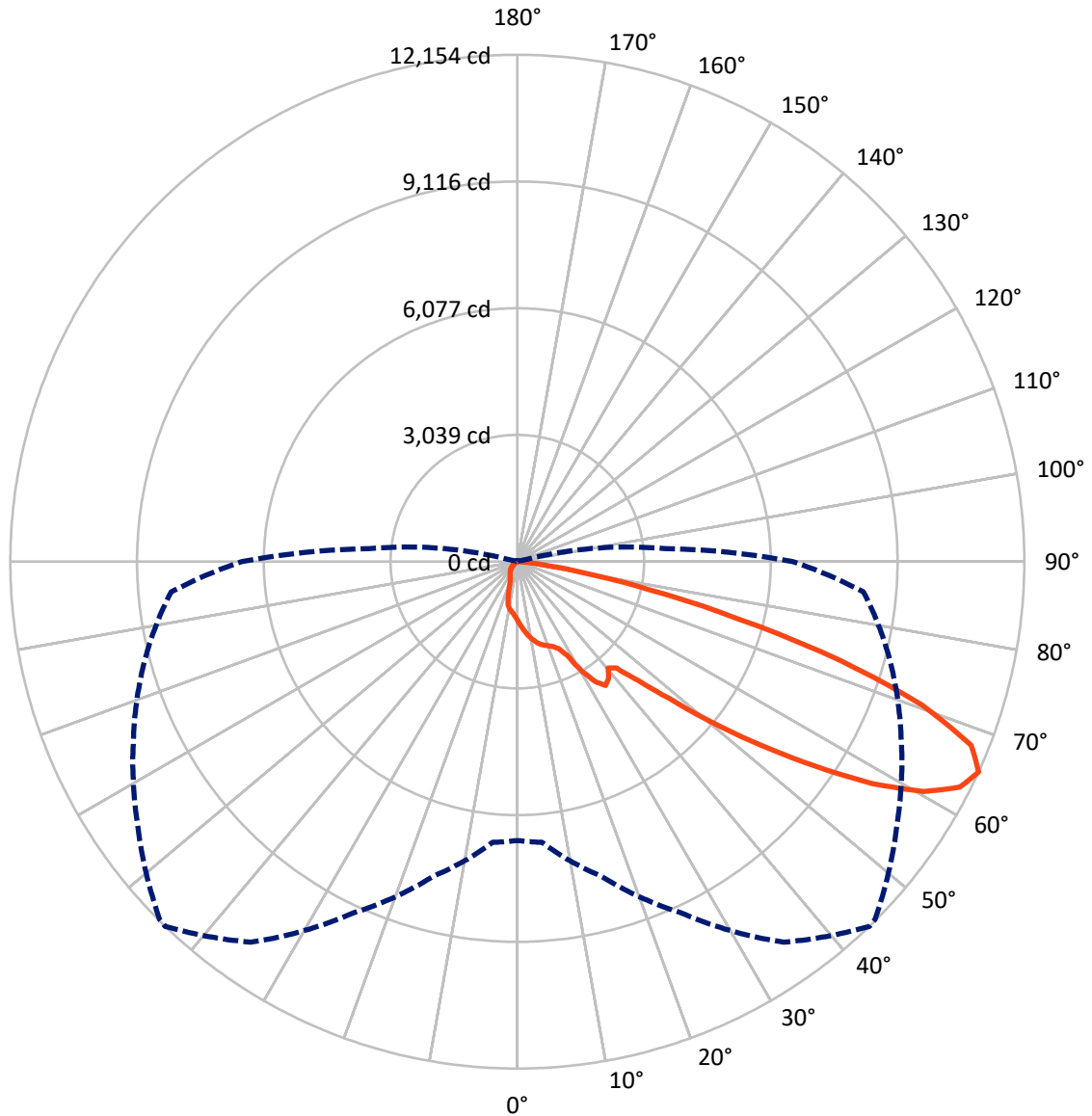
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.3 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 44-Deg Lateral    - - - Horizontal Cone Through 65-Deg Vertical

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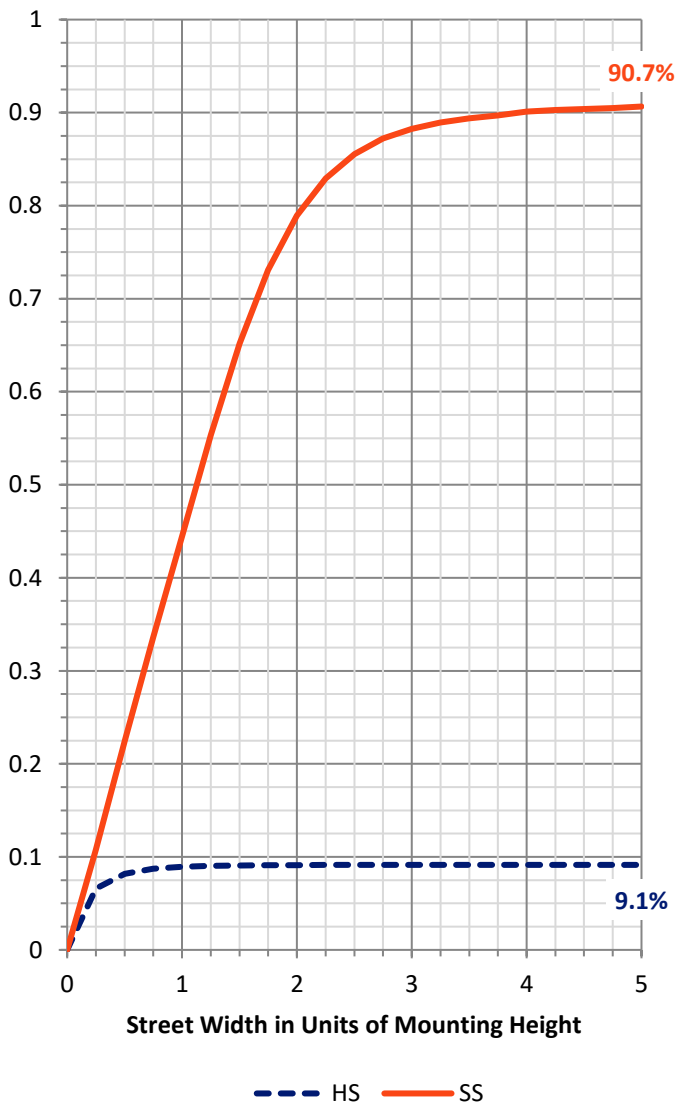
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1398.8	0.0	1398.8
	% Fixture	9.2	0.0	9.2
<b>Street Side</b>	Lumens	13783.2	0.0	13783.2
	% Fixture	90.8	0.0	90.8
<b>Total</b>	Lumens	15182.0	0.0	15182.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	140.5	0.9
10°-20°	423.0	2.8
20°-30°	717.2	4.7
30°-40°	1192.5	7.9
40°-50°	2082.1	13.7
50°-60°	4067.6	26.8
60°-70°	4719.4	31.1
70°-80°	1718.6	11.3
80°-90°	121.1	0.8
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°	15182.0	100.0
0°-180°	15182.0	100.0



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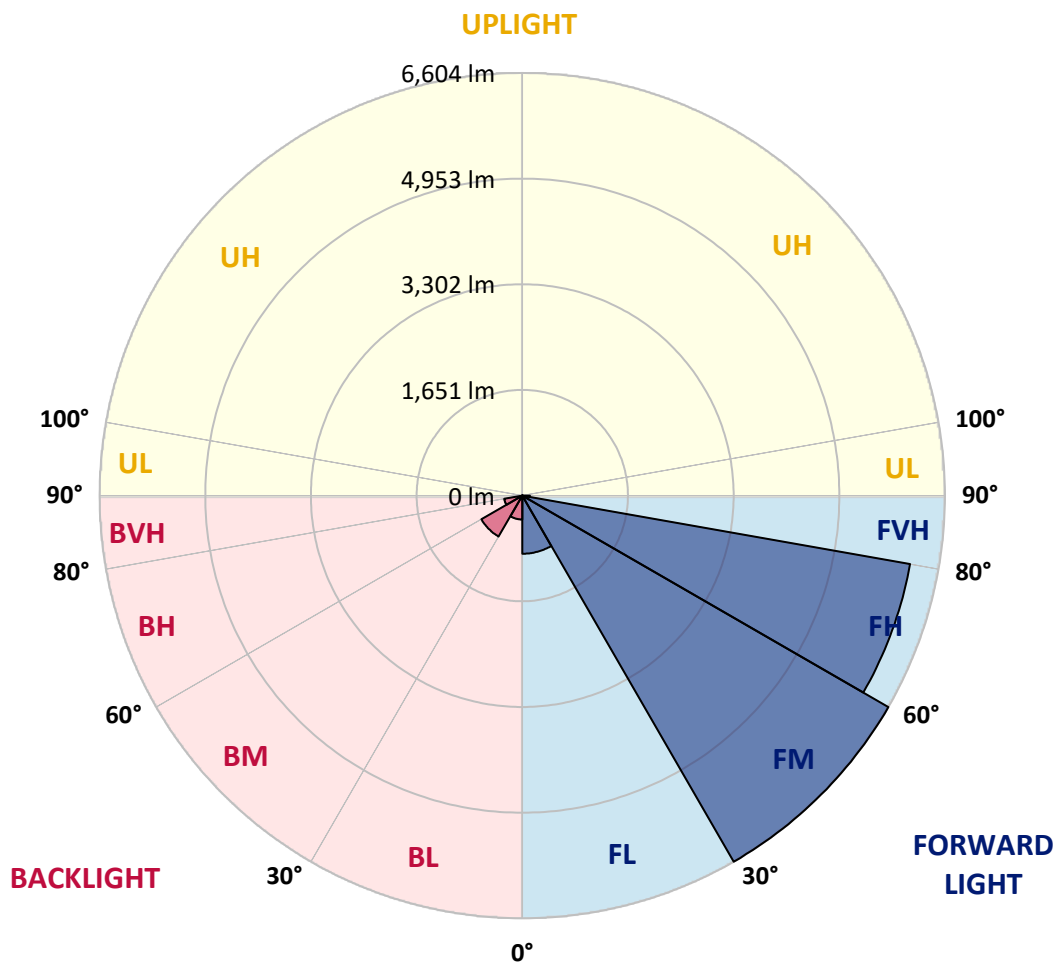
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	908.0	6.0			
FM (30°-60°)	6604.2	43.5			
FH (60°-80°)	6151.5	40.5			G3/7500
FVH (80°-90°)	119.4	0.8			G2/225
BL (0°-30°)	372.7	2.5	B1/500		
BM (30°-60°)	738.0	4.9	B1/1000		
BH (60°-80°)	286.5	1.9	B1/500		G1/500
BVH (80°-90°)	1.6	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-G3**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	1413.0	1413.0	1413.0	1413.0	1413.0	1413.0	1413.0	1413.0	1413.0	1413.0	1413.0
2.5°	1590.5	1583.5	1580.0	1561.5	1547.6	1530.2	1530.2	1508.1	1482.6	1454.8	1429.2
5°	1768.0	1756.4	1741.3	1725.1	1692.6	1646.2	1646.2	1599.8	1546.4	1498.8	1446.6
7.5°	1938.5	1928.1	1902.6	1871.2	1817.9	1769.1	1765.7	1698.4	1634.6	1562.6	1488.4
10°	2088.2	2080.0	2058.0	1997.7	1942.0	1878.2	1877.0	1801.6	1727.4	1639.2	1547.6
12.5°	2192.6	2193.7	2164.7	2106.7	2034.8	1974.5	1969.8	1895.6	1817.9	1722.7	1610.2
15°	2266.8	2266.8	2236.7	2171.7	2106.7	2053.4	2048.7	1983.8	1903.7	1800.5	1678.7
17.5°	2287.7	2294.7	2262.2	2204.2	2152.0	2105.6	2104.4	2049.9	1986.1	1886.3	1748.3
20°	2279.6	2286.5	2261.0	2215.8	2179.8	2153.1	2149.6	2127.6	2068.4	1974.5	1822.5
22.5°	2262.2	2269.1	2250.6	2223.9	2206.5	2214.6	2208.8	2227.4	2196.1	2082.4	1910.7
25°	2265.7	2272.6	2258.7	2243.6	2258.7	2308.6	2323.7	2403.7	2375.9	2219.3	2005.8
27.5°	2374.7	2388.6	2368.9	2375.9	2429.2	2545.2	2574.2	2712.3	2589.3	2393.3	2154.3
30°	2617.2	2607.9	2570.8	2604.4	2790.0	3036.0	3027.8	3005.8	2813.2	2594.0	2330.6
32.5°	2837.6	2829.5	2827.1	2972.2	3308.6	3428.1	3422.3	3208.8	3013.9	2823.7	2504.6
35°	2926.9	2895.6	2888.6	3240.1	3802.8	3645.0	3609.0	3292.3	3257.5	3074.2	2682.1
37.5°	3196.1	3174.0	3066.1	3284.2	3605.6	3553.4	3525.5	3436.2	3517.4	3295.8	2882.8
40°	3750.6	3689.1	3591.6	3378.2	3326.0	3348.0	3375.9	3620.6	3824.8	3598.6	3150.8
42.5°	4439.7	4425.7	4244.8	3846.9	3455.9	3486.1	3522.0	4005.8	4266.8	4054.5	3588.2
45°	5266.8	5286.5	5025.5	4555.7	4042.9	4068.4	4120.6	4574.2	4865.4	4763.3	4276.1
47.5°	6018.6	6003.5	5915.3	5426.9	4953.6	4896.7	4981.4	5303.9	5693.7	5710.0	5129.9
50°	6774.9	6855.0	6723.9	6532.5	6181.0	6061.5	6030.2	6187.9	6781.9	6704.2	6155.4
52.5°	7861.9	7903.7	7657.8	7609.0	7689.1	7301.6	7270.3	7308.6	7839.9	7573.1	6923.4
55°	8545.2	8520.9	8429.2	8809.7	9126.4	8642.7	8603.2	8448.9	8718.1	8186.8	7662.4
57.5°	8761.0	8795.8	9009.3	9697.2	10446.6	10036.0	9964.0	9525.5	9351.5	8758.7	8342.2
60°	8664.7	8728.5	9189.1	10212.3	11251.7	11190.2	11128.8	10392.1	9806.3	9236.6	8819.0
62.5°	7979.1	8068.4	8805.1	10120.6	11524.3	11908.3	11831.8	10932.7	10109.0	9468.7	8902.5
65°	6686.8	6752.9	7810.9	9288.9	11136.9	12154.3	12126.4	11102.1	10156.6	9256.4	8330.6
67.5°	4766.8	4991.9	5972.2	7828.3	9990.7	11734.3	11781.9	10899.1	9710.0	8338.7	6899.1
70°	2996.5	3149.6	3852.7	5604.4	8009.3	10294.7	10451.3	9969.8	8426.9	6500.0	4618.3
72.5°	1429.2	1542.9	2044.1	3547.6	5653.1	8099.8	8223.9	8184.4	6516.2	4095.1	2382.8
75°	636.9	679.8	975.6	1810.9	3649.6	5444.3	5765.7	5819.0	4071.9	2003.5	926.9
77.5°	324.8	326.0	457.1	877.0	1822.5	3248.3	3312.1	3498.8	2207.7	882.8	322.5
80°	172.9	184.5	242.5	414.2	945.5	1599.8	1591.6	1749.4	979.1	432.7	107.9
82.5°	77.7	85.8	136.9	216.9	461.7	606.7	654.3	715.8	420.0	276.1	47.6
85°	23.2	27.8	67.3	109.0	167.1	175.2	196.1	252.9	237.8	196.1	24.4
87.5°	3.5	3.5	27.8	30.2	24.4	31.3	32.5	36.0	76.6	71.9	12.8
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°	1413.0	1413.0	1413.0	1413.0	1413.0	1413.0	1413.0	1413.0	1413.0	1413.0	1413.0
2.5°	1415.3	1407.2	1378.2	1353.8	1332.9	1320.2	1305.1	1295.8	1291.2	1287.7	1288.9
5°	1421.1	1401.4	1351.5	1312.1	1281.9	1249.4	1227.4	1214.6	1208.8	1199.5	1199.5
7.5°	1453.6	1422.3	1352.7	1292.3	1240.1	1196.1	1154.3	1139.2	1128.8	1126.4	1124.1
10°	1500.0	1460.6	1365.4	1281.9	1207.7	1147.3	1088.2	1036.0	995.4	971.0	967.5
12.5°	1558.0	1501.2	1385.1	1274.9	1179.8	1073.1	916.5	810.9	740.1	718.1	721.6
15°	1611.4	1549.9	1404.9	1269.1	1128.8	889.8	712.3	591.6	555.7	552.2	553.4
17.5°	1675.2	1602.1	1428.1	1261.0	988.4	679.8	529.0	496.5	503.5	515.1	513.9
20°	1741.3	1657.8	1455.9	1212.3	788.9	511.6	467.5	471.0	481.4	491.9	494.2
22.5°	1812.1	1721.6	1488.4	1095.1	602.1	445.5	443.2	447.8	458.2	469.8	472.2
25°	1909.5	1801.6	1512.8	942.0	455.9	411.8	416.5	424.6	433.9	446.6	449.0
27.5°	2034.8	1909.5	1525.5	742.5	394.4	381.7	382.8	394.4	406.0	417.6	417.6
30°	2197.2	2038.3	1500.0	561.5	364.3	352.7	348.0	355.0	370.1	381.7	382.8
32.5°	2342.2	2160.1	1432.7	429.2	342.2	326.0	314.4	315.5	321.3	328.3	329.5
35°	2487.2	2278.4	1317.9	360.8	319.0	300.5	283.1	273.8	269.1	265.7	269.1
37.5°	2672.9	2425.8	1164.7	328.3	299.3	276.1	251.7	232.0	215.8	205.3	207.7
40°	2911.8	2629.9	983.8	307.4	280.7	252.9	220.4	194.9	167.1	157.8	153.1
42.5°	3306.3	2939.7	793.5	290.0	262.2	228.5	187.9	153.1	127.6	118.3	120.6
45°	3929.2	3330.6	611.4	271.5	243.6	201.9	157.8	120.6	99.8	95.1	97.4
47.5°	4755.2	3836.4	471.0	250.6	220.4	172.9	124.1	95.1	82.4	81.2	80.0
50°	5532.5	4307.4	393.3	227.4	192.6	143.9	102.1	80.0	71.9	70.8	70.8
52.5°	6235.5	4645.0	320.2	200.7	162.4	118.3	85.8	70.8	63.8	60.3	60.3
55°	6860.8	4865.4	259.9	168.2	127.6	94.0	74.2	63.8	55.7	51.0	49.9
57.5°	7332.9	4892.1	194.9	134.6	95.1	73.1	63.8	55.7	46.4	40.6	38.3
60°	7534.8	4661.2	143.9	102.1	70.8	58.0	51.0	45.2	34.8	29.0	27.8
62.5°	7331.8	4212.3	106.7	77.7	54.5	42.9	36.0	33.6	24.4	17.4	16.2
65°	6604.4	3563.8	84.7	59.2	40.6	31.3	23.2	22.0	15.1	8.1	7.0
67.5°	5291.2	2791.2	67.3	44.1	29.0	20.9	15.1	13.9	8.1	2.3	2.3
70°	3440.8	1784.2	54.5	32.5	18.6	13.9	9.3	7.0	4.6	1.2	0.0
72.5°	1701.9	834.1	44.1	25.5	12.8	7.0	3.5	2.3	3.5	0.0	0.0
75°	660.1	297.0	32.5	17.4	7.0	3.5	2.3	0.0	1.2	0.0	0.0
77.5°	219.3	98.6	19.7	9.3	4.6	2.3	0.0	0.0	0.0	0.0	0.0
80°	81.2	38.3	10.4	5.8	2.3	1.2	0.0	0.0	0.0	0.0	0.0
82.5°	32.5	15.1	7.0	4.6	2.3	0.0	0.0	0.0	0.0	0.0	0.0
85°	16.2	9.3	4.6	3.5	2.3	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	11.6	7.0	4.6	3.5	2.3	1.2	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)