

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: P532321

Luminaire Tested: **GALN-SA7C-830-U-T2-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P532321
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-13)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA7C-830-U-T2-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22954 lumens
Efficiency: N/A
Efficacy: 60.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

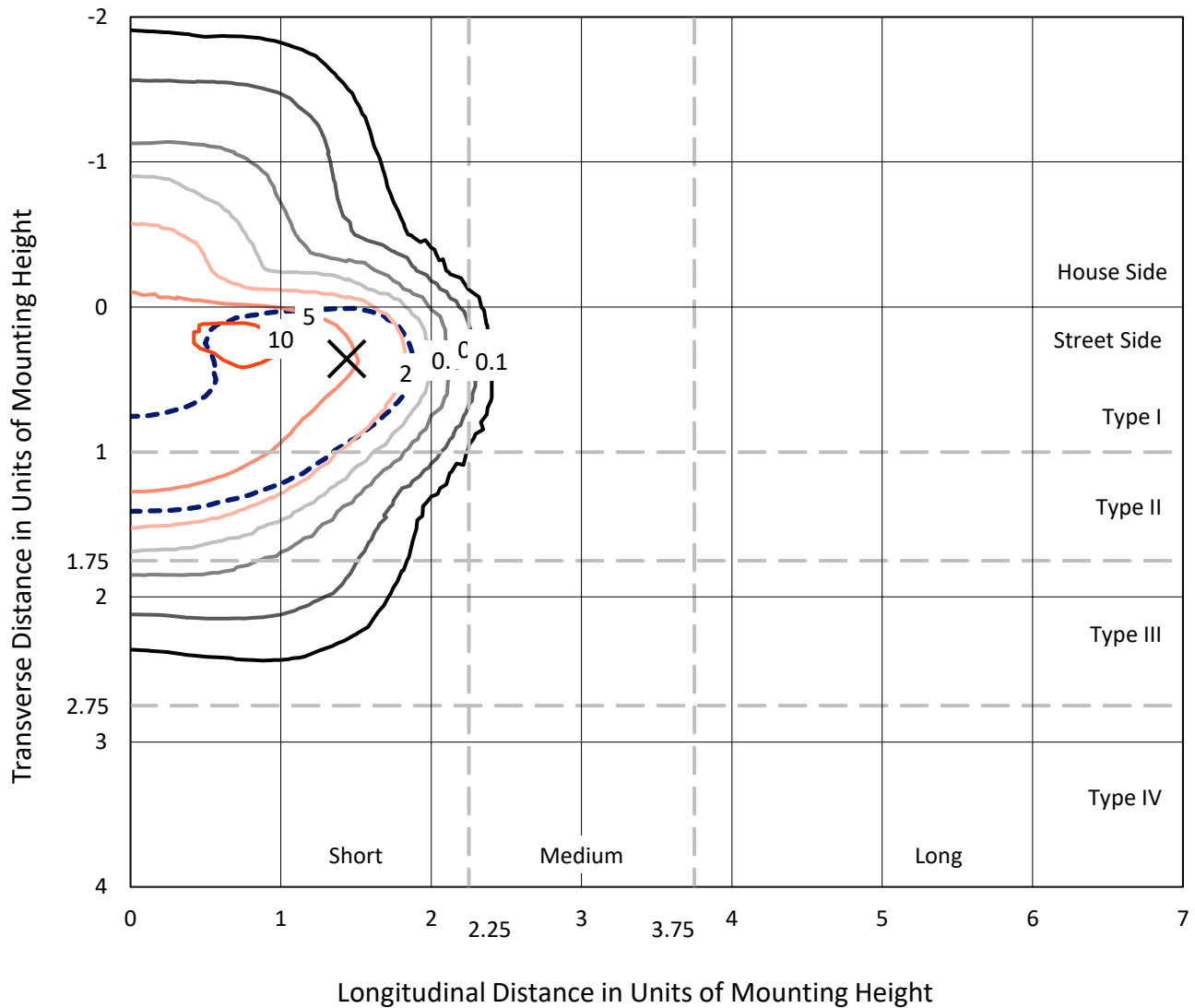
Input Watts (W): 377
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

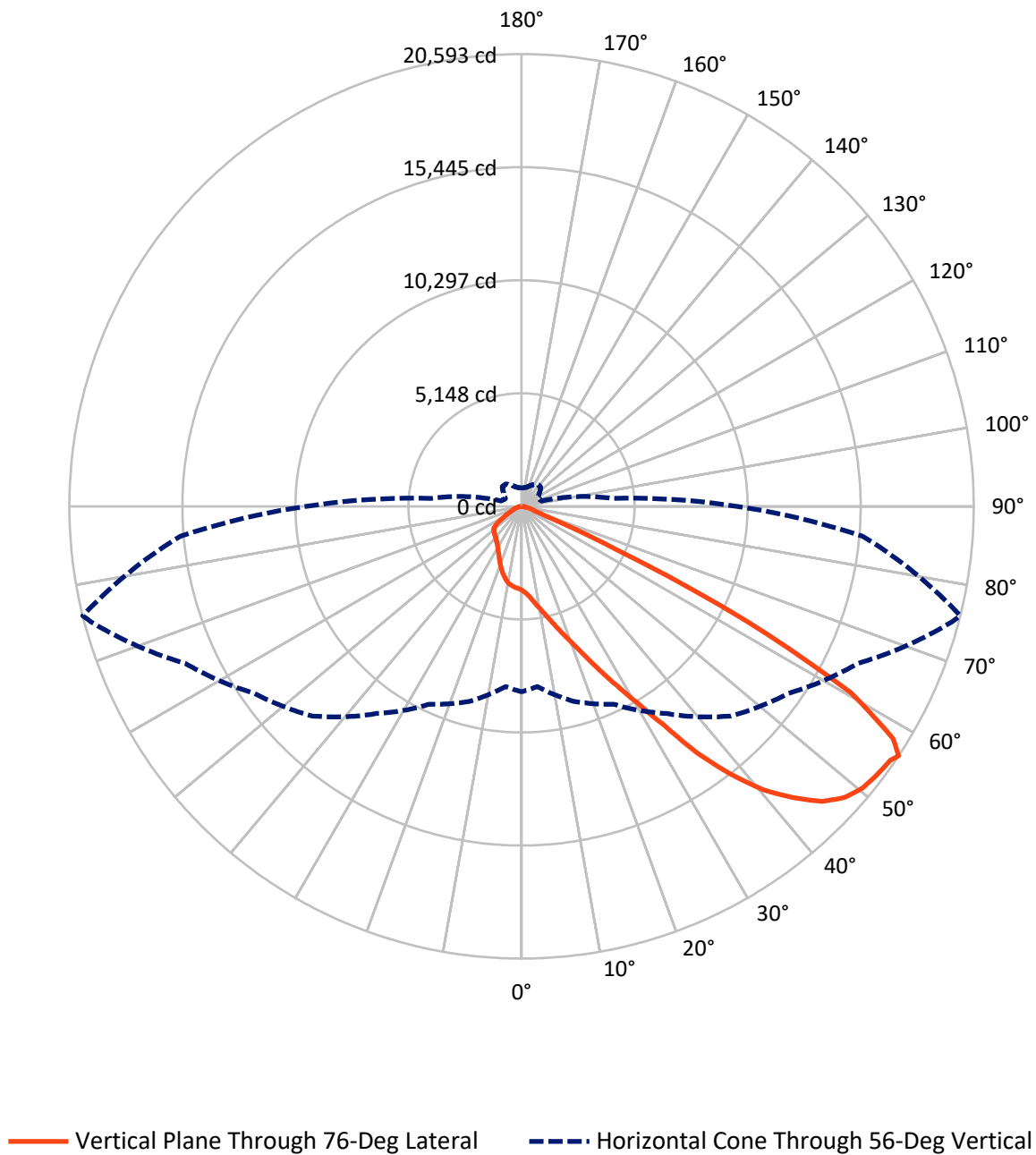
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.1 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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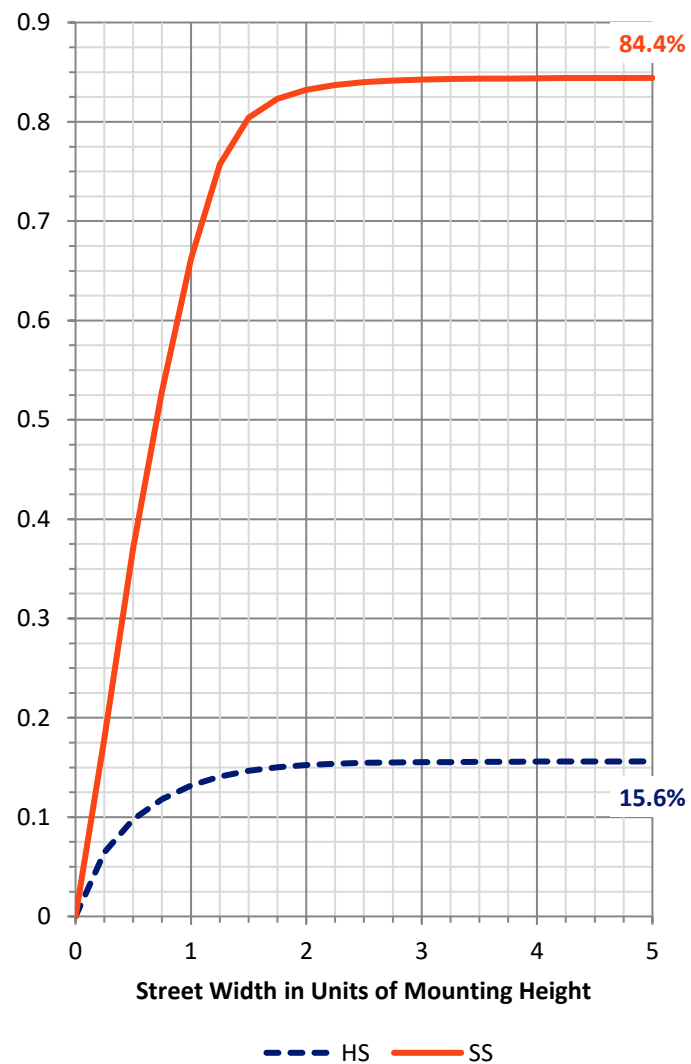
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3605.9	0.0	3605.9
	% Fixture	15.7	0.0	15.7
Street Side	Lumens	19348.0	0.0	19348.0
	% Fixture	84.3	0.0	84.3
Total	Lumens	22954.0	0.0	22954.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	384.9	1.7
10°-20°	1236.5	5.4
20°-30°	2242.1	9.8
30°-40°	3866.6	16.8
40°-50°	6281.4	27.4
50°-60°	6620.8	28.8
60°-70°	2023.0	8.8
70°-80°	259.3	1.1
80°-90°	39.4	0.2
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°	22954.0	100.0
0°-180°	22954.0	100.0

Coefficient of Utilization



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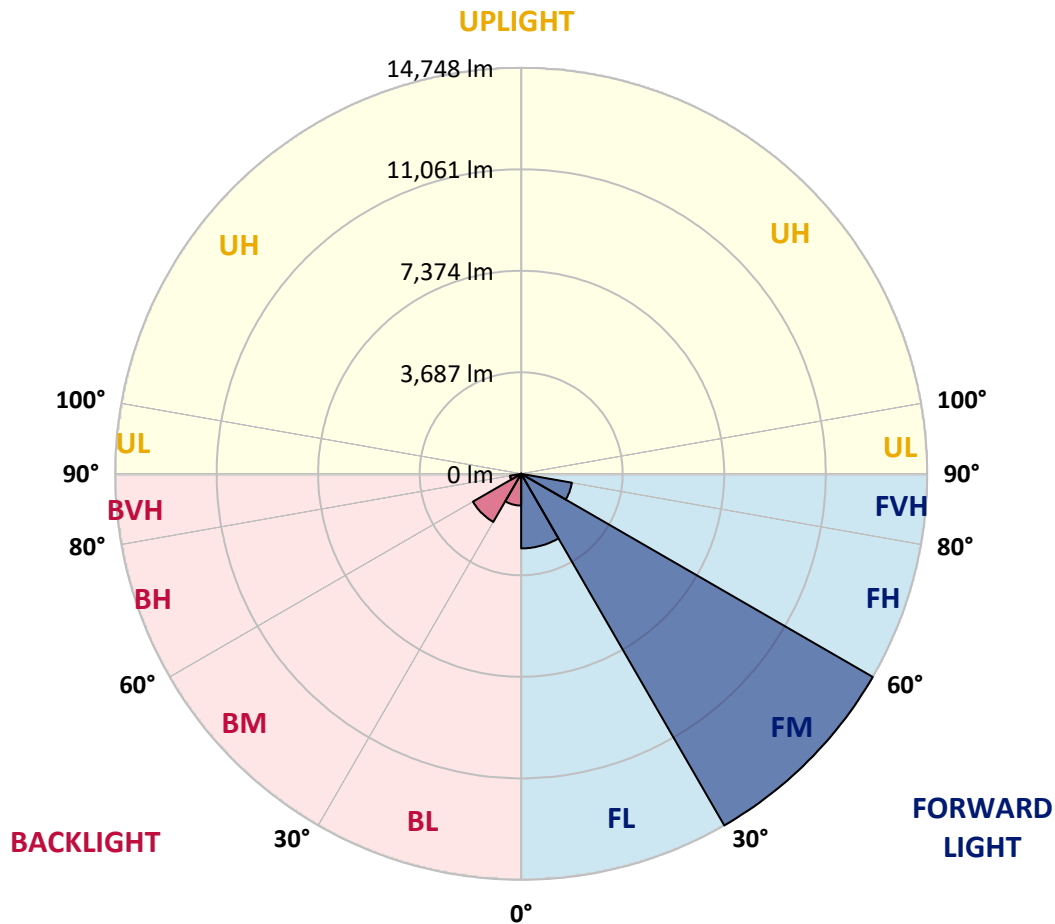
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2709.9	11.8			
FM	(30°-60°)	14747.9	64.2			
FH	(60°-80°)	1870.9	8.2			G2/5000
FVH	(80°-90°)	19.3	0.1			G1/100
BL	(0°-30°)	1153.5	5.0	B3/2500		
BM	(30°-60°)	2020.9	8.8	B2/2500		
BH	(60°-80°)	411.4	1.8	B1/500		G1/500
BVH	(80°-90°)	20.1	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	3820.7	3820.7	3820.7	3820.7	3820.7	3820.7	3820.7	3820.7	3820.7	3820.7	3820.7
2.5°	4400.4	4298.8	4303.1	4294.6	4281.9	4235.4	4095.8	4074.6	3981.5	3956.1	3871.5
5°	4929.3	4840.4	4891.2	4815.0	4743.1	4700.8	4472.3	4366.5	4218.5	4163.5	4045.0
7.5°	5259.3	5217.0	5200.1	5204.3	5136.6	5030.8	4929.3	4696.6	4497.7	4455.4	4205.8
10°	5420.1	5394.7	5420.1	5407.4	5437.0	5449.7	5272.0	5132.4	4840.4	4768.5	4379.2
12.5°	5458.2	5509.0	5530.1	5585.1	5657.0	5779.7	5767.1	5576.7	5187.4	5140.8	4645.8
15°	5551.3	5593.6	5572.4	5661.3	5796.7	6004.0	6114.0	6084.4	5665.5	5580.9	4954.7
17.5°	5635.9	5559.7	5631.7	5809.4	5944.8	6262.1	6528.7	6651.4	6185.9	6088.6	5238.2
20°	5750.1	5729.0	5716.3	5805.1	6046.3	6469.4	6998.3	7222.6	6769.8	6668.3	5644.4
22.5°	6097.1	6101.3	6092.9	5961.7	6135.2	6613.3	7408.7	7963.0	7468.0	7383.4	6105.5
25°	6554.1	6499.0	6456.7	6351.0	6329.8	6744.5	7823.4	8868.5	8305.7	8246.5	6604.8
27.5°	7036.4	7036.4	6909.5	6812.2	6676.8	7070.3	8204.2	9748.6	9317.0	9236.6	7040.6
30°	7561.1	7590.7	7573.8	7366.4	7281.8	7425.7	8593.5	10874.1	10476.3	10374.8	7759.9
32.5°	8335.4	8271.9	8343.8	8170.3	7920.7	8047.6	9207.0	11881.1	11982.6	11838.8	8703.5
35°	9359.3	9321.2	9274.7	8991.2	8695.0	8796.6	10074.4	13120.8	13873.9	13802.0	9655.5
37.5°	10277.5	10256.3	10218.2	10023.6	9680.9	9803.6	11060.2	14411.3	15718.7	15481.8	11001.0
40°	11242.2	11356.4	11233.7	11060.2	10747.1	11017.9	12219.6	15177.1	17271.6	16983.8	12029.2
42.5°	12549.6	12460.7	12515.7	12198.4	12029.2	12325.3	13383.1	15943.0	18477.4	18134.7	13120.8
45°	13941.6	13945.9	13797.8	13696.2	13256.2	13577.8	14098.2	16366.1	19437.9	19171.3	13945.9
47.5°	14834.4	14830.2	14991.0	15151.7	14699.0	14381.7	14584.8	16768.0	19932.9	19810.2	14246.3
50°	14694.8	14737.1	14944.4	15545.2	15782.2	15354.8	15041.7	16649.6	20157.2	20144.5	14504.4
52.5°	12782.3	12921.9	13268.9	14136.3	15329.5	15858.3	15519.9	16869.6	20267.2	20288.4	14889.4
55°	9731.6	9807.8	10467.9	11521.4	12841.5	14652.5	15329.5	17043.1	20351.8	20389.9	15354.8
56°	8441.1	8238.0	9190.1	9939.0	11517.2	13497.4	14847.1	16907.7	20301.1	20593.0	15587.6
57.5°	6372.1	6236.7	7006.8	7941.9	9460.8	11551.0	13349.3	16268.8	19958.3	19954.1	15253.3
60°	3875.7	3740.3	4332.7	4882.7	5733.2	7112.6	9020.8	12955.8	16873.8	17229.2	12350.7
62.5°	2306.0	2390.6	2974.5	3308.8	3583.8	3727.6	4667.0	7700.7	11259.1	11513.0	7662.6
65°	1535.9	1565.5	2005.6	2555.6	2678.3	2132.5	1899.8	3118.4	4882.7	4726.2	3160.7
67.5°	947.8	1015.5	1345.5	1920.9	2128.3	1557.1	901.2	1163.6	1345.5	1345.5	913.9
70°	575.4	609.3	897.0	1307.4	1459.7	1002.8	655.8	655.8	647.4	634.7	545.8
72.5°	275.0	296.2	457.0	672.8	685.4	528.9	507.7	554.3	541.6	537.4	452.7
75°	118.5	126.9	160.8	211.6	241.2	224.3	308.9	397.7	410.4	397.7	325.8
77.5°	38.1	42.3	59.2	76.2	80.4	97.3	131.2	165.0	190.4	177.7	160.8
80°	4.2	8.5	16.9	38.1	59.2	76.2	97.3	110.0	122.7	122.7	114.2
82.5°	4.2	4.2	16.9	33.8	55.0	71.9	93.1	105.8	122.7	126.9	118.5
85°	0.0	4.2	12.7	29.6	46.5	46.5	42.3	42.3	29.6	29.6	29.6
87.5°	0.0	0.0	4.2	4.2	4.2	8.5	8.5	8.5	8.5	8.5	8.5
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°	3820.7	3820.7	3820.7	3820.7	3820.7	3820.7	3820.7	3820.7	3820.7	3820.7	3820.7
2.5°	3854.6	3846.1	3731.9	3659.9	3621.9	3545.7	3499.2	3465.3	3439.9	3410.3	3414.5
5°	3905.4	3875.7	3685.3	3554.2	3397.6	3313.0	3241.1	3181.8	3143.7	3135.3	3118.4
7.5°	4049.2	3892.7	3604.9	3368.0	3169.1	3084.5	3021.0	2983.0	2999.9	2961.8	2991.4
10°	4159.2	3926.5	3507.6	3164.9	2966.0	2902.6	2868.7	2898.3	2940.6	2923.7	2902.6
12.5°	4294.6	3960.4	3351.1	2970.3	2784.1	2737.6	2796.8	2851.8	2936.4	2970.3	2928.0
15°	4446.9	3998.4	3152.2	2746.0	2627.5	2665.6	2767.2	2864.5	2949.1	2991.4	3016.8
17.5°	4633.1	3985.7	2957.6	2568.3	2479.5	2589.5	2712.2	2801.0	2928.0	2991.4	2974.5
20°	4806.6	3943.4	2741.8	2390.6	2394.8	2496.4	2597.9	2741.8	2809.5	2894.1	2864.5
22.5°	4971.6	3867.3	2517.5	2267.9	2267.9	2424.4	2475.2	2568.3	2627.5	2669.9	2665.6
25°	5204.3	3723.4	2331.4	2149.4	2200.2	2301.7	2344.1	2373.7	2348.3	2382.1	2386.4
27.5°	5369.3	3575.3	2179.0	2043.6	2136.7	2212.9	2200.2	2183.3	2124.0	2077.5	2107.1
30°	5547.0	3401.8	2047.9	1971.7	2022.5	2090.2	2039.4	1988.6	1895.6	1819.4	1823.6
32.5°	5800.9	3321.5	1933.6	1887.1	1954.8	1963.3	1908.2	1832.1	1739.0	1667.1	1662.8
35°	6274.8	3270.7	1836.3	1832.1	1844.8	1849.0	1794.0	1700.9	1662.8	1603.6	1624.8
37.5°	6748.7	3245.3	1768.6	1751.7	1747.5	1751.7	1688.2	1599.4	1671.3	1667.1	1675.5
40°	7353.7	3359.5	1671.3	1650.1	1654.4	1654.4	1574.0	1548.6	1675.5	1688.2	1692.5
42.5°	7967.3	3503.4	1607.8	1540.1	1557.1	1557.1	1514.8	1485.1	1574.0	1489.4	1476.7
45°	8500.4	3714.9	1540.1	1430.1	1472.4	1493.6	1480.9	1430.1	1375.1	1231.3	1231.3
47.5°	8673.9	3901.1	1459.7	1324.3	1358.2	1451.3	1413.2	1307.4	1210.1	1091.6	1083.2
50°	8978.5	4104.2	1396.3	1201.6	1273.6	1387.8	1349.7	1244.0	1133.9	1049.3	1053.6
52.5°	9291.6	4336.9	1277.8	1057.8	1146.6	1337.0	1337.0	1218.6	1049.3	990.1	981.6
55°	9761.3	4328.5	1066.2	867.4	1023.9	1260.9	1282.0	1091.6	939.3	892.8	892.8
56°	9829.0	4133.8	960.5	812.4	968.9	1239.7	1244.0	1057.8	897.0	846.2	846.2
57.5°	9321.2	3731.9	842.0	744.7	901.2	1201.6	1205.9	1028.2	863.2	791.2	782.8
60°	7171.8	2526.0	702.4	664.3	816.6	1083.2	1104.3	935.1	757.4	702.4	698.1
62.5°	4049.2	1400.5	617.7	600.8	702.4	922.4	985.9	816.6	643.1	613.5	622.0
65°	1849.0	770.1	520.4	486.6	567.0	710.8	795.5	672.8	528.9	495.0	495.0
67.5°	677.0	524.7	444.3	385.0	397.7	461.2	516.2	435.8	351.2	300.4	313.1
70°	482.4	440.0	389.3	334.3	308.9	300.4	296.2	245.4	173.5	135.4	143.9
72.5°	389.3	363.9	325.8	283.5	241.2	203.1	173.5	126.9	80.4	55.0	50.8
75°	279.3	266.6	236.9	203.1	169.2	143.9	118.5	80.4	42.3	21.2	21.2
77.5°	143.9	143.9	139.6	126.9	105.8	84.6	67.7	46.5	25.4	8.5	8.5
80°	110.0	118.5	122.7	110.0	97.3	76.2	55.0	33.8	16.9	4.2	4.2
82.5°	105.8	122.7	131.2	114.2	97.3	71.9	55.0	33.8	16.9	4.2	4.2
85°	25.4	25.4	38.1	42.3	55.0	59.2	46.5	29.6	12.7	4.2	4.2
87.5°	8.5	8.5	8.5	8.5	8.5	8.5	4.2	4.2	4.2	4.2	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)