

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: P455840

Luminaire Tested: **GALN-SA7A-740-U-T3R**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P455840
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-8)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA7A-740-U-T3R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32596 lumens
Efficiency: N/A
Efficacy: 151.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G4

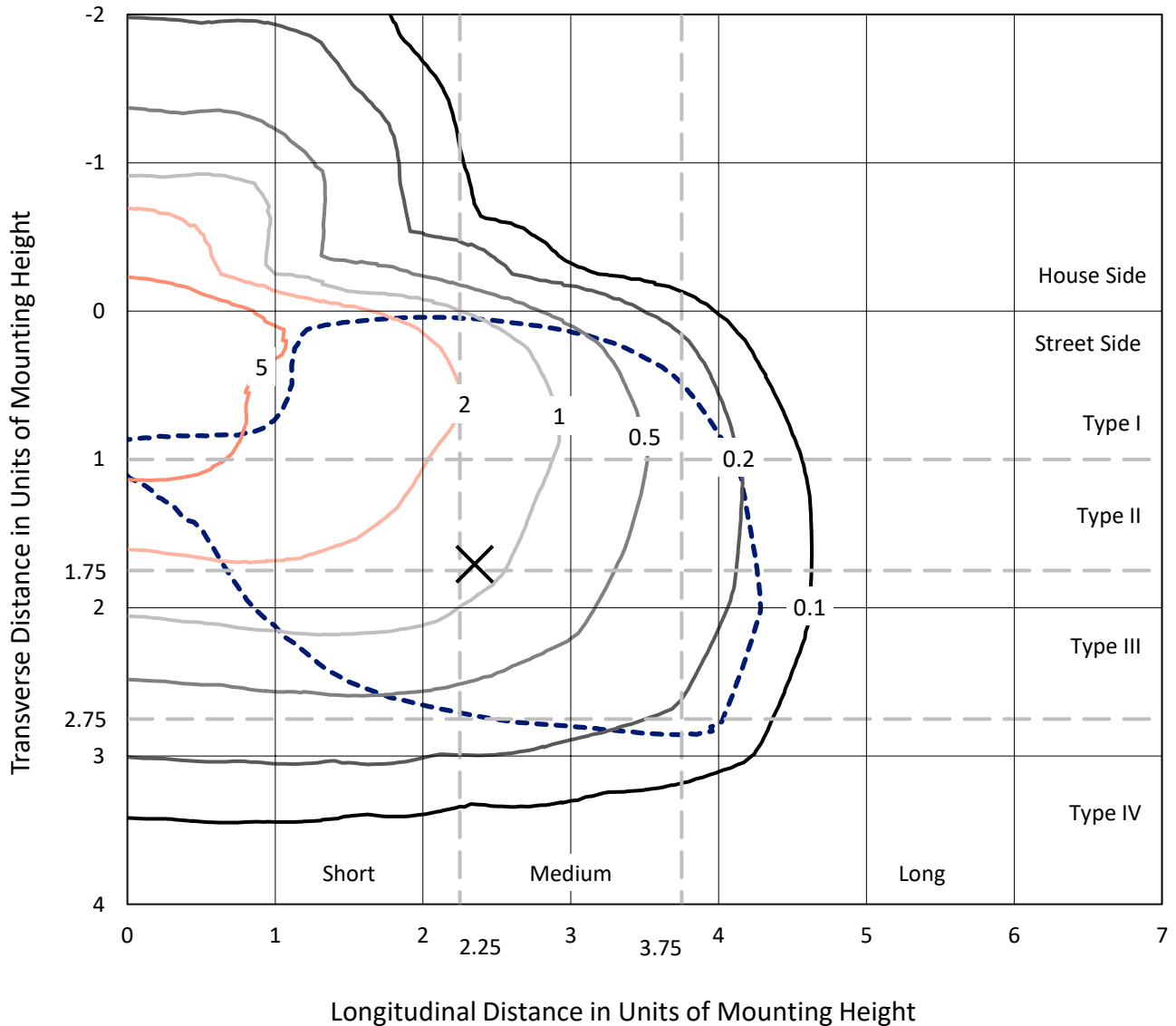
Input Watts (W): 215
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

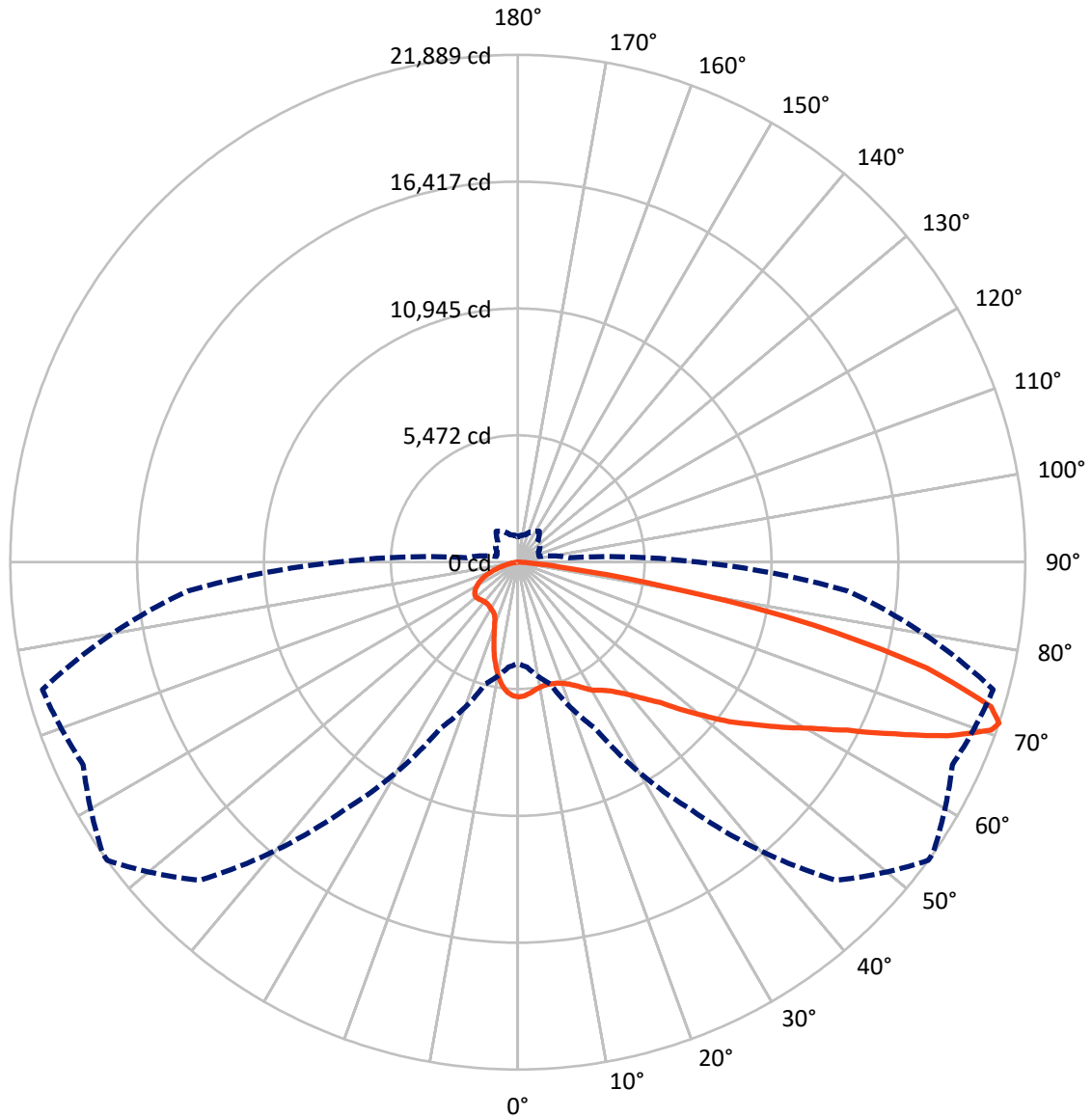
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.4 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical



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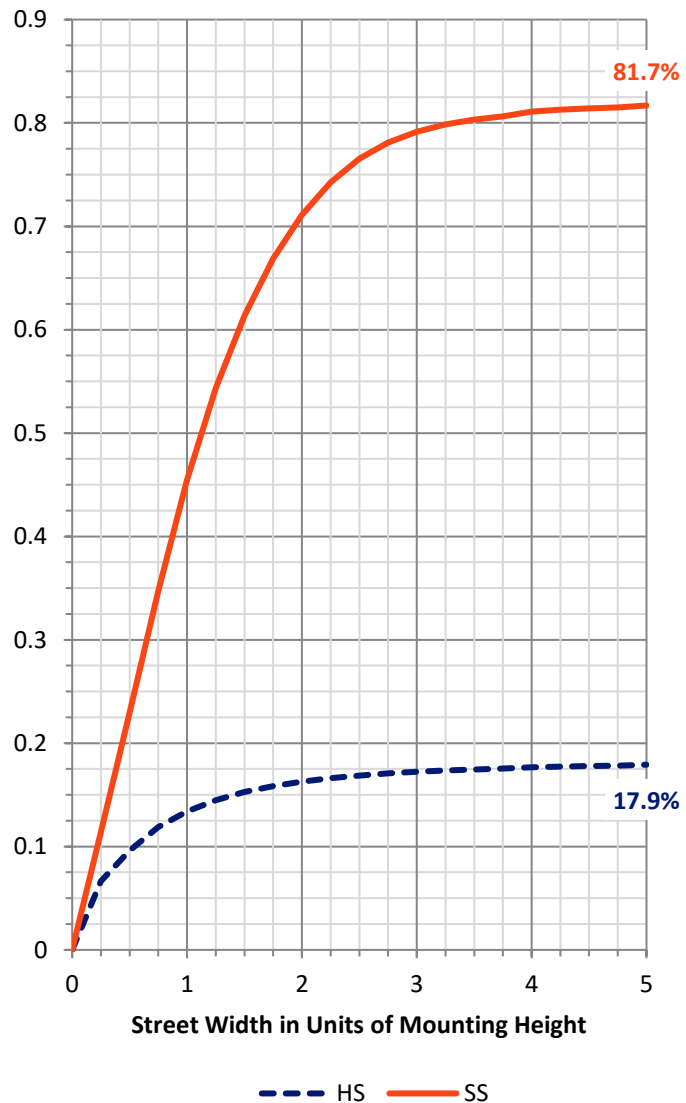
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5885.0	0.0	5885.0
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	26711.0	0.0	26711.0
	% Fixture	81.9	0.0	81.9
Total	Lumens	32596.0	0.0	32596.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	518.3	1.6
10°-20°	1368.5	4.2
20°-30°	2278.5	7.0
30°-40°	3369.2	10.3
40°-50°	4745.7	14.6
50°-60°	6354.7	19.5
60°-70°	8009.6	24.6
70°-80°	5470.5	16.8
80°-90°	481.1	1.5
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°	32596.0	100.0
0°-180°	32596.0	100.0



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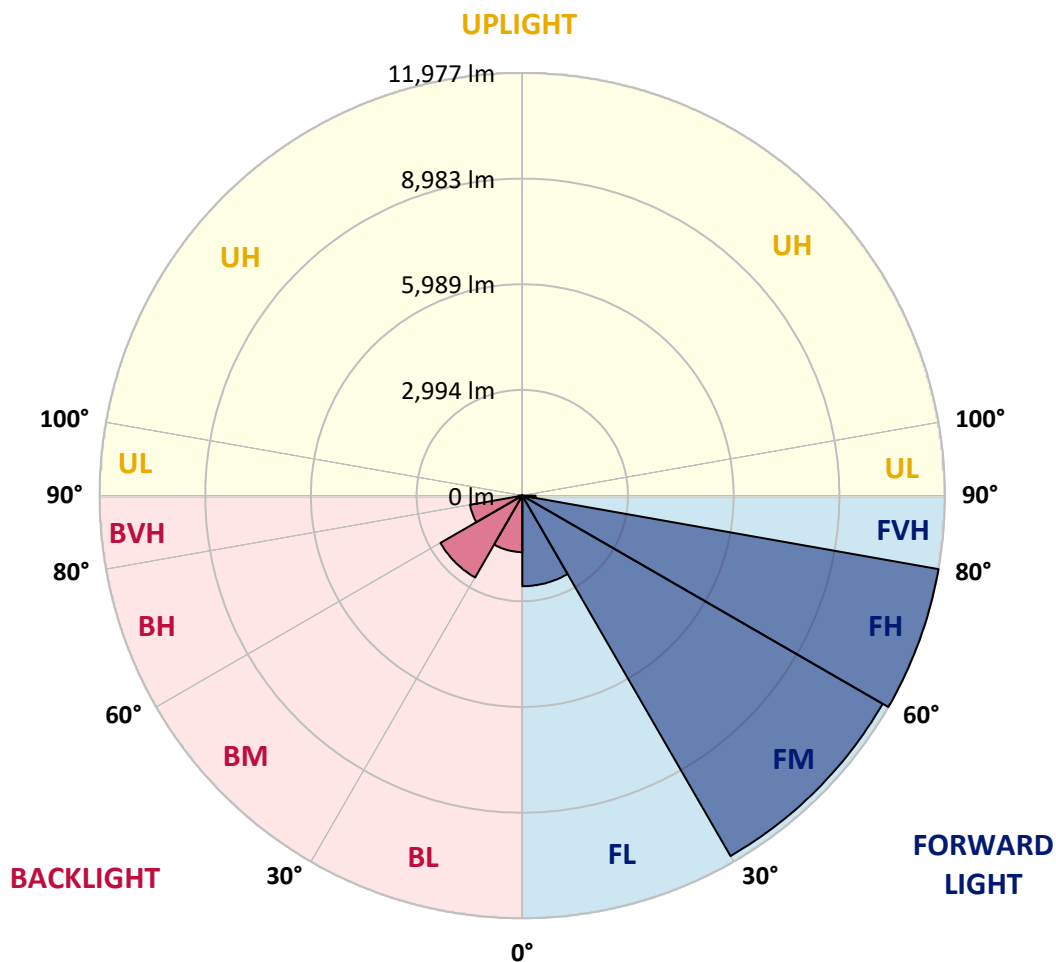
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2565.8	7.9			
FM	(30°-60°)	11792.1	36.2			
FH	(60°-80°)	11977.1	36.7			G4/12000
FVH	(80°-90°)	376.1	1.2			G3/500
BL	(0°-30°)	1599.4	4.9	B3/2500		
BM	(30°-60°)	2677.5	8.2	B3/5000		
BH	(60°-80°)	1503.0	4.6	B3/2500		G3/2500
BVH	(80°-90°)	105.0	0.3			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	5815.6	5815.6	5815.6	5815.6	5815.6	5815.6	5815.6	5815.6	5815.6	5815.6	5815.6
2.5°	5618.4	5644.8	5651.9	5669.5	5706.4	5736.4	5766.3	5762.8	5805.0	5822.7	5838.5
5°	5368.4	5375.4	5401.8	5437.1	5502.2	5585.0	5665.9	5667.7	5771.6	5854.3	5894.8
7.5°	5185.3	5208.2	5225.8	5262.7	5331.4	5421.2	5549.7	5560.3	5745.2	5908.9	5995.2
10°	5065.5	5092.0	5111.3	5157.1	5225.8	5326.1	5465.2	5484.6	5725.8	5995.2	6146.6
12.5°	4956.4	4982.8	5000.4	5060.3	5150.1	5273.3	5430.0	5452.9	5732.9	6095.6	6312.1
15°	5023.3	5044.4	5037.4	5055.0	5114.8	5255.7	5444.1	5467.0	5759.3	6192.4	6475.9
17.5°	5320.9	5338.5	5280.4	5213.4	5185.3	5289.2	5488.1	5512.8	5812.1	6292.8	6643.1
20°	5759.3	5806.8	5680.0	5530.4	5394.8	5408.9	5579.7	5606.1	5886.0	6393.1	6813.9
22.5°	6329.7	6364.9	6210.0	5963.5	5713.5	5585.0	5717.0	5732.9	5997.0	6523.4	7000.6
25°	7000.6	7021.7	6806.9	6490.0	6129.0	5886.0	5905.4	5933.6	6180.1	6671.3	7166.1
27.5°	7652.0	7718.9	7470.7	7083.3	6607.9	6203.0	6164.2	6181.8	6379.0	6754.1	7280.5
30°	8425.0	8419.7	8157.3	7708.4	7099.2	6548.1	6409.0	6405.4	6486.4	6794.6	7363.3
32.5°	9041.2	9113.4	8856.3	8366.9	7660.8	6905.5	6578.0	6571.0	6569.2	6865.0	7486.5
35°	9742.0	9752.5	9516.6	9023.6	8268.3	7354.5	6813.9	6778.7	6738.2	7016.4	7653.8
37.5°	10368.8	10418.1	10201.5	9648.7	8865.2	7821.1	7137.9	7115.0	6991.8	7278.8	7921.4
40°	10858.3	10895.2	10765.0	10238.5	9453.2	8324.6	7549.9	7507.6	7358.0	7708.4	8278.8
42.5°	11018.5	11094.2	11145.3	10886.4	10129.3	8921.5	8057.0	8004.2	7889.7	8359.8	8690.8
45°	11030.8	11150.5	11419.9	11432.3	10809.0	9636.3	8648.6	8611.6	8602.8	9194.4	9270.1
47.5°	10937.5	11059.0	11511.5	11756.2	11414.7	10358.2	9502.5	9444.4	9449.7	10226.2	9919.8
50°	10712.1	10856.5	11405.8	11964.0	11888.3	11108.3	10404.0	10384.6	10493.8	11404.1	10594.2
52.5°	10287.8	10462.1	11296.7	12094.3	12240.4	11754.5	11428.7	11374.2	11650.6	12682.4	11331.9
55°	9113.4	9375.8	10897.0	12166.5	12575.0	12372.5	12351.3	12449.9	12816.2	14076.8	12143.6
57.5°	8500.7	8697.9	10029.0	12178.8	12997.5	13090.8	13428.9	13453.5	14094.4	15557.6	13060.9
60°	8166.2	8340.5	9553.6	12097.8	13587.4	13980.0	14531.1	14619.1	15342.8	17161.6	14011.7
62.5°	7873.9	8023.5	9268.4	11817.9	14252.9	15298.8	15959.0	16001.3	16760.2	18932.9	14950.1
65°	7185.4	7356.2	8694.4	11537.9	14826.9	16946.8	17853.6	17804.3	18269.1	20461.2	15538.2
67.5°	6257.5	6474.1	7622.1	10571.3	15110.4	18748.0	19987.5	19925.9	19758.6	21463.0	15707.3
70°	5072.6	5188.8	6250.5	8900.4	13978.2	19693.5	21672.5	21607.4	20681.2	21595.0	14907.9
71°	4364.8	4546.1	5442.3	7905.6	13036.3	19404.7	21889.1	21871.5	20683.0	21230.6	14305.7
72.5°	3407.0	3517.9	4310.2	6125.5	11080.1	17763.8	21353.8	21420.7	20234.0	20218.2	13064.4
75°	2155.1	2204.4	2704.4	3605.9	6079.7	12580.2	18228.6	18409.9	17966.2	16548.9	9715.6
77.5°	1251.9	1315.2	1619.8	2125.2	2627.0	6828.0	13043.3	13240.5	12483.4	9111.6	3977.4
80°	728.9	799.4	1067.0	1234.3	1206.1	2533.7	6641.4	6977.7	5405.4	2301.2	1116.3
82.5°	405.0	452.5	750.1	751.8	642.7	827.5	2090.0	2186.8	1542.4	927.9	456.0
85°	294.0	332.8	484.2	438.4	308.1	355.7	727.2	762.4	623.3	390.9	147.9
87.5°	103.9	147.9	265.9	211.3	84.5	73.9	209.5	170.8	158.5	109.2	33.5
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°	5815.6	5815.6	5815.6	5815.6	5815.6	5815.6	5815.6	5815.6	5815.6	5815.6	5815.6
2.5°	5847.3	5850.8	5833.2	5801.5	5769.8	5729.3	5683.6	5648.3	5632.5	5630.7	5629.0
5°	5910.7	5919.5	5852.6	5754.0	5644.8	5511.0	5396.6	5266.3	5232.8	5180.0	5195.8
7.5°	6012.8	6007.5	5875.5	5665.9	5410.6	5127.2	4887.7	4748.6	4604.2	4563.7	4565.5
10°	6158.9	6125.5	5875.5	5486.4	5060.3	4639.5	4304.9	4093.6	3979.2	3884.1	3848.9
12.5°	6313.9	6229.4	5819.1	5234.6	4609.5	4093.6	3734.5	3449.2	3375.3	3297.8	3299.6
15°	6461.8	6320.9	5708.2	4880.7	4123.6	3510.8	3162.2	2991.4	2968.5	2977.4	2975.6
17.5°	6595.6	6386.1	5539.2	4486.3	3556.6	3010.8	2825.9	2838.3	2899.9	2943.9	2949.2
20°	6731.2	6424.8	5287.4	3958.1	3021.4	2708.0	2715.0	2811.8	2905.2	2965.0	2973.8
22.5°	6859.7	6442.4	4991.6	3447.5	2634.0	2579.4	2683.3	2787.2	2878.8	2936.9	2945.7
25°	6944.2	6401.9	4572.6	2914.0	2443.9	2533.7	2642.8	2730.9	2808.3	2868.2	2882.3
27.5°	6967.1	6271.6	4053.1	2482.6	2355.8	2489.6	2590.0	2655.1	2715.0	2771.3	2781.9
30°	6954.8	6079.7	3482.7	2229.1	2304.8	2438.6	2516.0	2563.6	2635.8	2679.8	2688.6
32.5°	6935.4	5856.1	2887.6	2093.5	2262.5	2391.0	2436.8	2479.1	2477.3	2459.7	2472.0
35°	6942.5	5588.5	2405.1	2012.5	2225.5	2355.8	2394.6	2341.7	2190.3	2183.3	2176.2
37.5°	6979.4	5324.4	2054.7	1956.1	2206.2	2350.5	2371.7	2128.7	1994.9	1933.3	1917.4
40°	7074.5	5016.2	1824.1	1913.9	2204.4	2391.0	2267.8	2021.3	1764.2	1644.5	1635.7
42.5°	7201.3	4713.4	1683.2	1887.5	2225.5	2452.7	2225.5	1869.9	1589.9	1519.5	1508.9
45°	7389.7	4366.5	1605.8	1875.2	2257.2	2475.6	2211.4	1758.9	1519.5	1463.1	1463.1
47.5°	7602.7	4035.5	1563.5	1866.3	2297.7	2459.7	2086.4	1723.7	1486.0	1493.1	1526.5
50°	7814.0	3748.5	1531.8	1847.0	2332.9	2450.9	2035.4	1722.0	1494.8	1584.6	1644.5
52.5°	8058.7	3546.1	1493.1	1815.3	2332.9	2394.6	2019.5	1757.2	1519.5	1545.9	1572.3
55°	8354.5	3482.7	1443.8	1746.6	2290.7	2253.7	2010.7	1808.2	1537.1	1475.5	1486.0
57.5°	8745.4	3584.8	1396.2	1660.3	2193.8	2107.6	2007.2	1822.3	1496.6	1445.5	1435.0
60°	9199.7	3787.3	1382.2	1572.3	2061.8	1982.6	1986.1	1781.8	1440.3	1387.4	1396.2
62.5°	9518.4	3908.8	1373.4	1505.4	1917.4	1845.2	1935.0	1732.5	1415.6	1369.8	1378.6
65°	9518.4	3760.9	1292.4	1403.3	1730.8	1679.7	1873.4	1670.9	1383.9	1331.1	1322.3
67.5°	9157.4	3329.5	1169.1	1250.1	1524.8	1491.3	1787.1	1597.0	1336.4	1295.9	1274.8
70°	8217.2	2524.9	1014.2	1070.5	1264.2	1294.1	1676.2	1496.6	1257.1	1207.8	1176.2
71°	7803.4	2199.1	949.0	979.0	1163.8	1207.8	1623.4	1454.3	1221.9	1151.5	1095.2
72.5°	7005.8	1852.3	850.4	862.7	994.8	1074.0	1512.4	1373.4	1155.0	1054.7	991.3
75°	5322.6	1352.2	684.9	677.9	736.0	852.2	1280.0	1223.7	1012.4	876.8	839.9
77.5°	2299.5	736.0	512.4	517.6	500.0	646.2	1007.1	1051.1	868.0	713.1	679.6
80°	697.2	424.3	350.4	357.4	334.5	433.1	709.6	824.0	697.2	554.6	508.8
82.5°	357.4	253.5	239.5	235.9	213.0	244.7	429.6	563.4	498.3	346.9	306.4
85°	154.9	135.6	118.0	114.4	100.4	88.0	153.2	281.7	264.1	193.7	184.9
87.5°	38.7	35.2	22.9	21.1	12.3	1.8	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)