

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: P455695

Luminaire Tested: **GALN-SA6D-827-U-T3R**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P455695
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-SA6D-827-U-T3R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 34509 lumens
Efficiency: N/A
Efficacy: 93.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G5

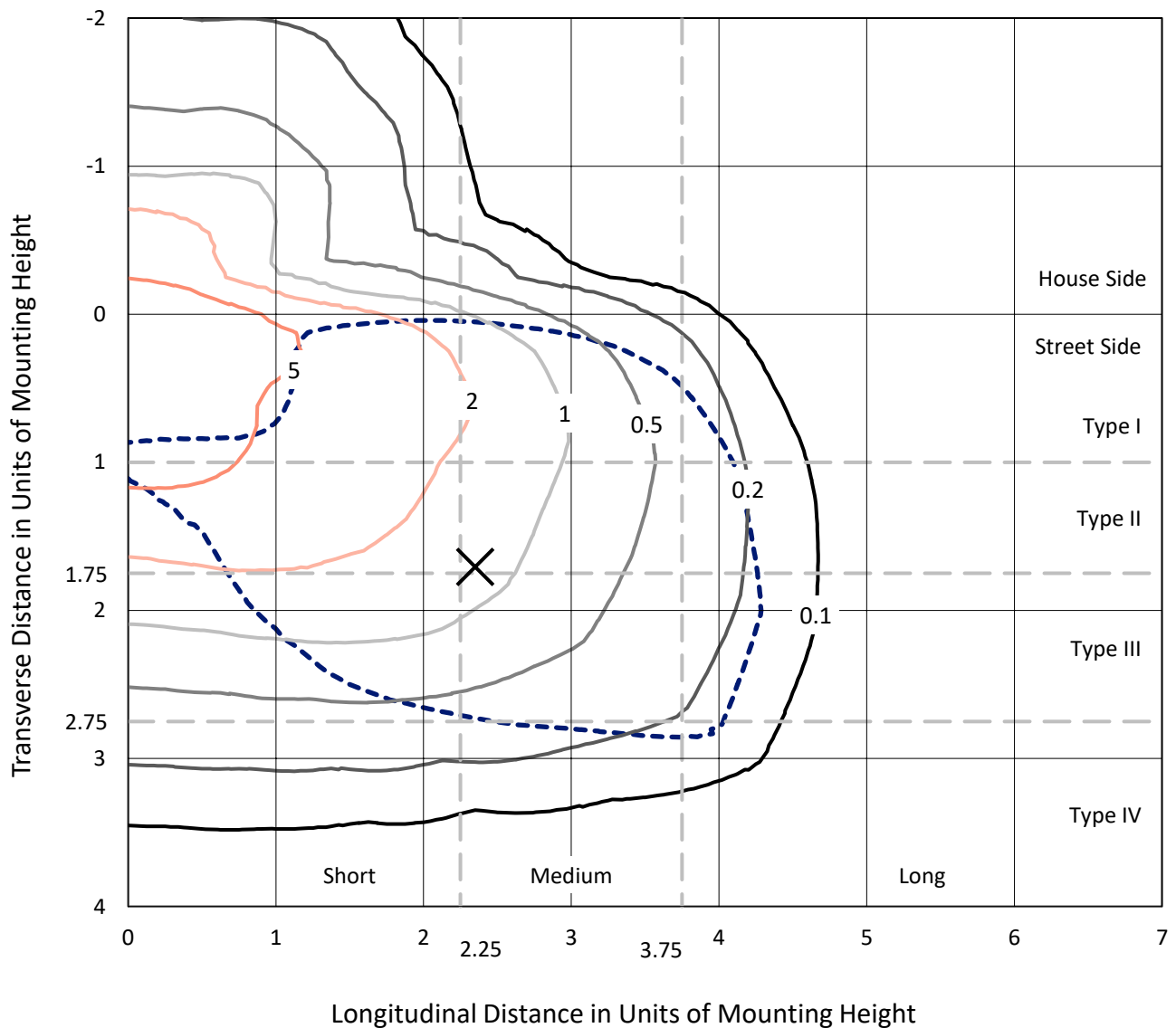
Input Watts (W): 368
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

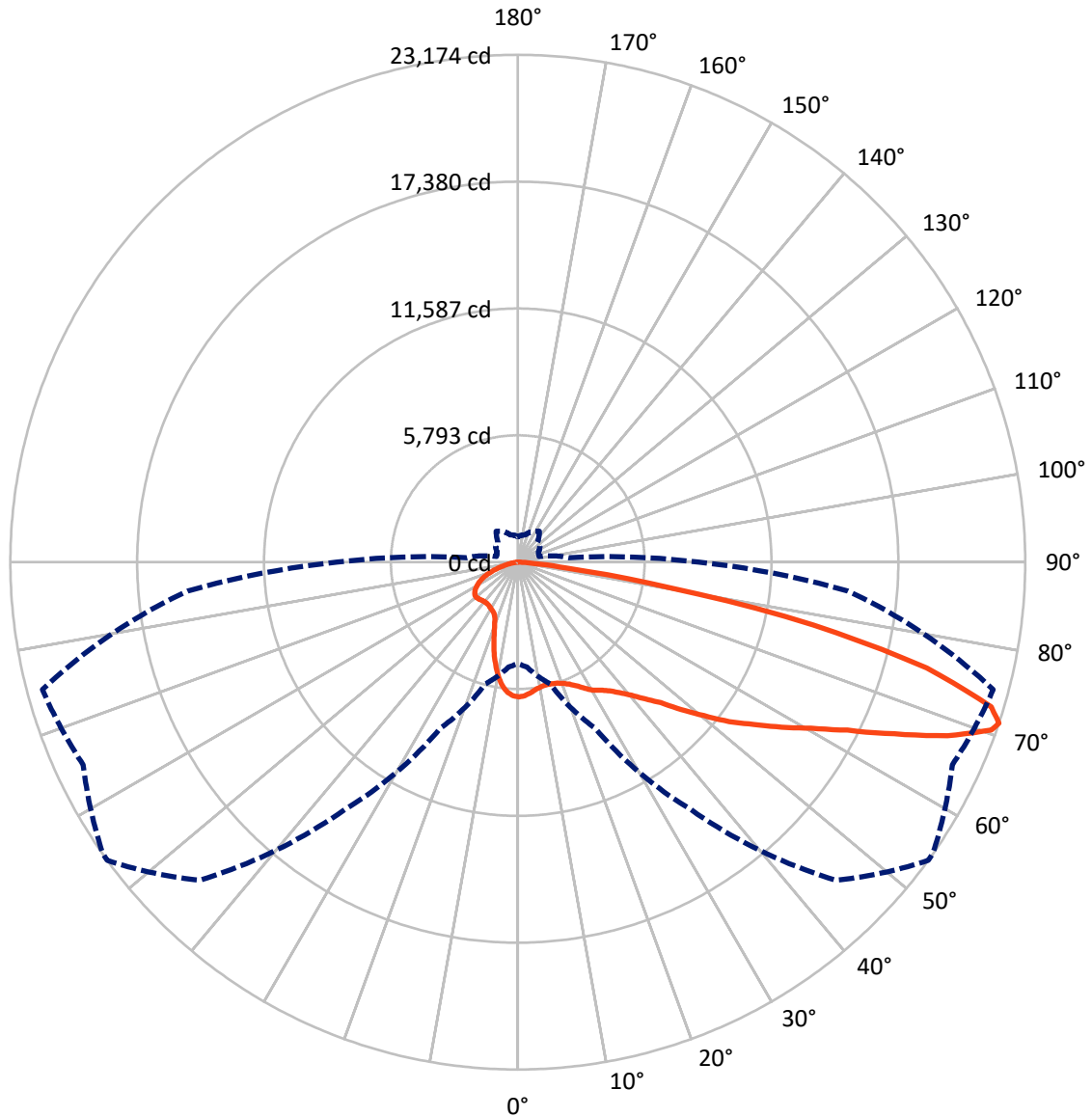
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.9 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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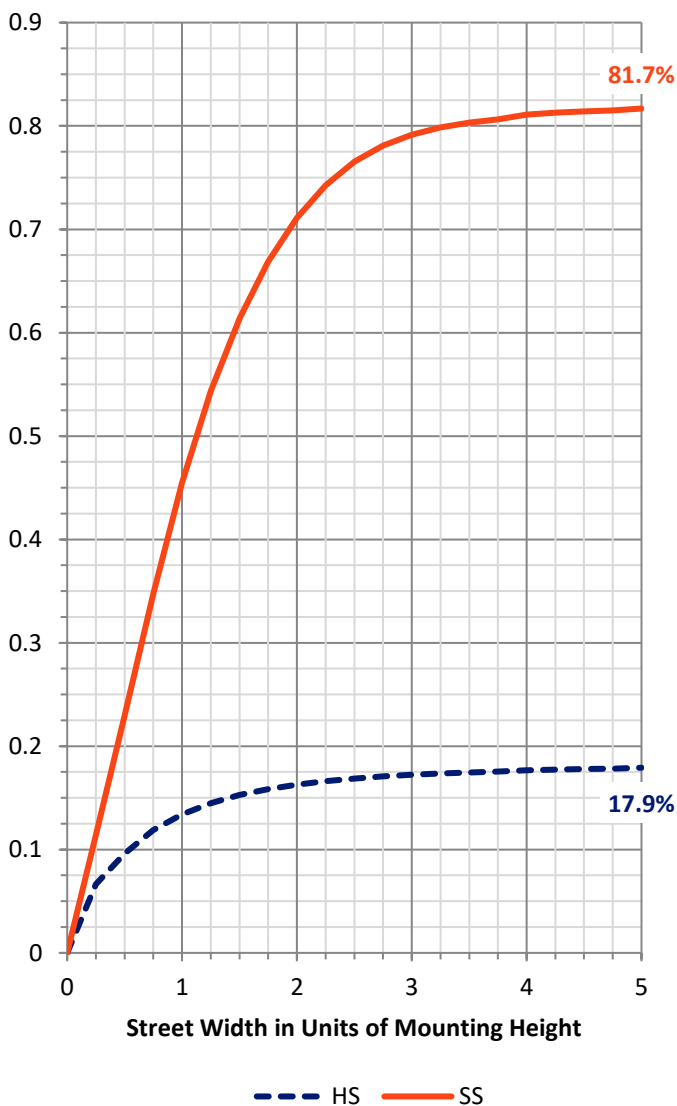
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6230.4	0.0	6230.4
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	28278.6	0.0	28278.6
	% Fixture	81.9	0.0	81.9
Total	Lumens	34509.0	0.0	34509.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	548.7	1.6
10°-20°	1448.8	4.2
20°-30°	2412.3	7.0
30°-40°	3567.0	10.3
40°-50°	5024.2	14.6
50°-60°	6727.6	19.5
60°-70°	8479.6	24.6
70°-80°	5791.6	16.8
80°-90°	509.3	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°	34509.0	100.0
0°-180°	34509.0	100.0



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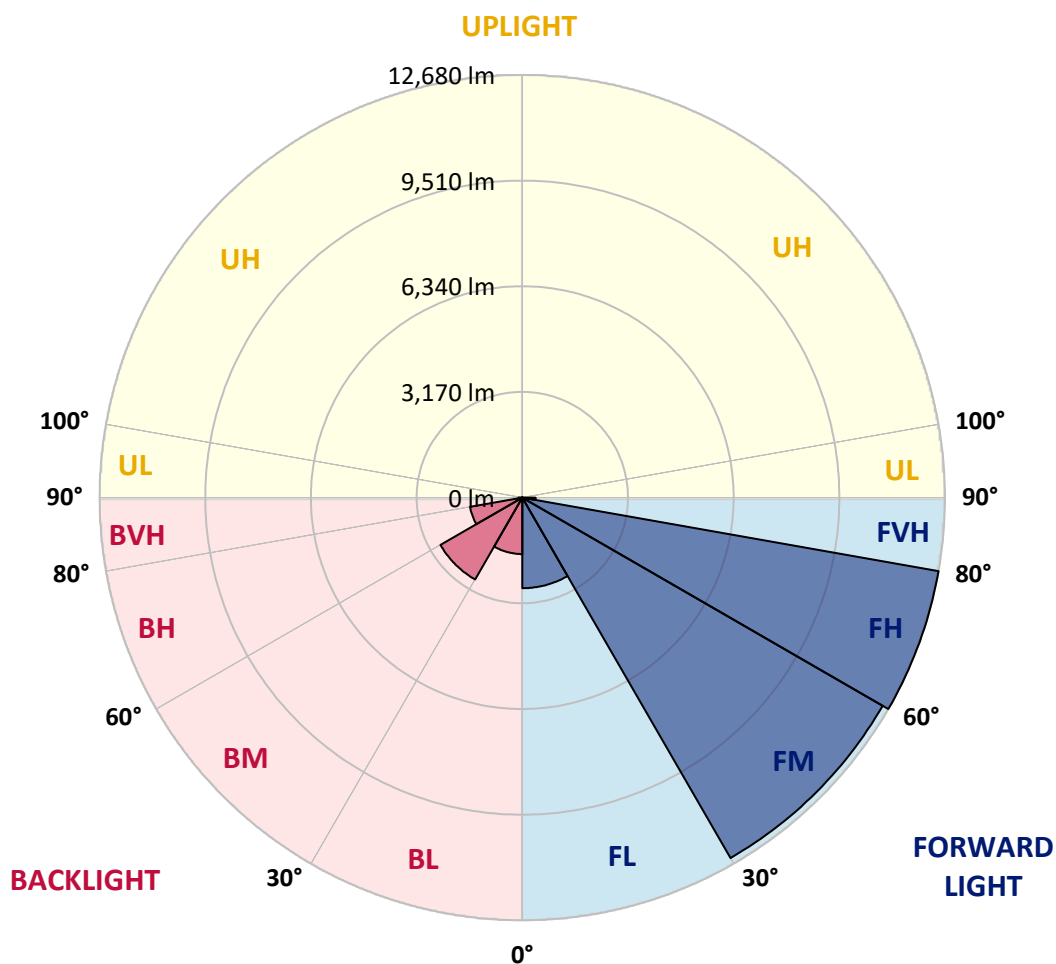
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2716.4	7.9			
FM	(30°-60°)	12484.1	36.2			
FH	(60°-80°)	12680.0	36.7			G5
FVH	(80°-90°)	398.1	1.2			G3/500
BL	(0°-30°)	1693.3	4.9	B3/2500		
BM	(30°-60°)	2834.6	8.2	B3/5000		
BH	(60°-80°)	1591.2	4.6	B3/2500		G3/2500
BVH	(80°-90°)	111.2	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-G5

Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	6156.9	6156.9	6156.9	6156.9	6156.9	6156.9	6156.9	6156.9	6156.9	6156.9	6156.9
2.5°	5948.1	5976.1	5983.6	6002.2	6041.3	6073.0	6104.7	6101.0	6145.7	6164.4	6181.1
5°	5683.5	5690.9	5718.9	5756.1	5825.1	5912.7	5998.5	6000.3	6110.3	6197.9	6240.8
7.5°	5489.6	5513.8	5532.5	5571.6	5644.3	5739.4	5875.4	5886.6	6082.4	6255.7	6347.0
10°	5362.8	5390.8	5411.3	5459.8	5532.5	5638.7	5786.0	5806.5	6061.9	6347.0	6507.4
12.5°	5247.3	5275.2	5293.9	5357.2	5452.3	5582.8	5748.7	5772.9	6069.3	6453.3	6682.6
15°	5318.1	5340.5	5333.0	5351.7	5415.0	5564.2	5763.6	5787.8	6097.3	6555.8	6855.9
17.5°	5633.1	5651.8	5590.2	5519.4	5489.6	5599.6	5810.2	5836.3	6153.2	6662.1	7033.0
20°	6097.3	6147.6	6013.4	5854.9	5711.4	5726.3	5907.1	5935.1	6231.5	6768.3	7213.8
22.5°	6701.2	6738.5	6574.5	6313.5	6048.8	5912.7	6052.5	6069.3	6348.9	6906.3	7411.4
25°	7411.4	7433.8	7206.4	6870.8	6488.7	6231.5	6252.0	6281.8	6542.8	7062.8	7586.6
27.5°	8101.1	8171.9	7909.1	7499.0	6995.7	6567.0	6526.0	6544.6	6753.4	7150.4	7707.8
30°	8919.4	8913.8	8636.1	8160.8	7515.8	6932.4	6785.1	6781.4	6867.1	7193.3	7795.4
32.5°	9571.8	9648.3	9376.1	8857.9	8110.4	7310.8	6964.0	6956.6	6954.7	7267.9	7925.9
35°	10313.7	10324.9	10075.1	9553.2	8753.5	7786.1	7213.8	7176.5	7133.7	7428.2	8103.0
37.5°	10977.3	11029.5	10800.2	10214.9	9385.4	8280.1	7556.8	7532.6	7402.1	7705.9	8386.3
40°	11495.5	11534.7	11396.7	10839.4	10008.0	8813.2	7993.0	7948.3	7789.8	8160.8	8764.7
42.5°	11665.1	11745.3	11799.4	11525.3	10723.8	9445.1	8529.8	8473.9	8352.8	8850.5	9200.9
45°	11678.2	11805.0	12090.1	12103.2	11443.3	10201.9	9156.2	9117.0	9107.7	9734.0	9814.2
47.5°	11579.4	11708.0	12187.1	12446.2	12084.6	10966.1	10060.2	9998.7	10004.3	10826.3	10502.0
50°	11340.8	11493.7	12075.2	12666.1	12586.0	11760.2	11014.6	10994.1	11109.7	12073.4	11215.9
52.5°	10891.6	11076.1	11959.7	12804.1	12958.8	12444.3	12099.5	12041.7	12334.3	13426.7	11996.9
55°	9648.3	9926.0	11536.5	12880.5	13313.0	13098.6	13076.2	13180.6	13568.3	14903.0	12856.3
57.5°	8999.6	9208.3	10617.6	12893.5	13760.3	13859.1	14217.0	14243.1	14921.6	16470.6	13827.4
60°	8645.4	8829.9	10114.3	12807.8	14384.8	14800.5	15383.9	15477.1	16243.2	18168.8	14834.0
62.5°	8336.0	8494.4	9812.3	12511.4	15089.4	16196.6	16895.6	16940.4	17743.8	20044.0	15827.5
65°	7607.1	7787.9	9204.6	12215.0	15697.1	17941.4	18901.3	18849.1	19341.3	21662.0	16450.1
67.5°	6624.8	6854.1	8069.4	11191.7	15997.2	19848.3	21160.6	21095.3	20918.2	22722.6	16629.1
70°	5370.3	5493.3	6617.3	9422.7	14798.6	20849.3	22944.4	22875.5	21895.0	22862.4	15782.8
71°	4620.9	4812.9	5761.7	8369.5	13801.3	20543.6	23173.7	23155.1	21896.9	22476.6	15145.3
72.5°	3606.9	3724.3	4563.2	6485.0	11730.4	18806.3	22607.0	22677.9	21421.5	21404.7	13831.2
75°	2281.6	2333.8	2863.2	3817.5	6436.5	13318.5	19298.4	19490.4	19020.6	17520.1	10285.8
77.5°	1325.3	1392.4	1714.9	2249.9	2781.1	7228.7	13808.8	14017.6	13216.0	9646.4	4210.9
80°	771.7	846.3	1129.6	1306.7	1276.9	2682.4	7031.2	7387.2	5722.6	2436.3	1181.8
82.5°	428.7	479.1	794.1	795.9	680.4	876.1	2212.6	2315.1	1632.9	982.3	482.8
85°	311.3	352.3	512.6	464.1	326.2	376.5	769.8	807.1	659.9	413.8	156.6
87.5°	110.0	156.6	281.5	223.7	89.5	78.3	221.8	180.8	167.8	115.6	35.4
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°	6156.9	6156.9	6156.9	6156.9	6156.9	6156.9	6156.9	6156.9	6156.9	6156.9	6156.9
2.5°	6190.5	6194.2	6175.6	6142.0	6108.5	6065.6	6017.1	5979.8	5963.1	5961.2	5959.3
5°	6257.6	6266.9	6196.1	6091.7	5976.1	5834.4	5713.3	5575.3	5539.9	5484.0	5500.8
7.5°	6365.7	6360.1	6220.3	5998.5	5728.2	5428.1	5174.6	5027.3	4874.5	4831.6	4833.4
10°	6520.4	6485.0	6220.3	5808.3	5357.2	4911.7	4557.6	4333.9	4212.7	4112.1	4074.8
12.5°	6684.4	6595.0	6160.6	5541.8	4880.1	4333.9	3953.6	3651.6	3573.4	3491.3	3493.2
15°	6841.0	6691.9	6043.2	5167.1	4365.6	3716.9	3347.8	3167.0	3142.8	3152.1	3150.2
17.5°	6982.7	6760.9	5864.3	4749.6	3765.4	3187.5	2991.8	3004.8	3070.1	3116.7	3122.3
20°	7126.2	6801.9	5597.7	4190.4	3198.7	2866.9	2874.3	2976.9	3075.7	3139.0	3148.4
22.5°	7262.3	6820.5	5284.5	3649.8	2788.6	2730.8	2840.8	2950.8	3047.7	3109.2	3118.5
25°	7351.8	6777.6	4840.9	3085.0	2587.3	2682.4	2797.9	2891.1	2973.1	3036.5	3051.4
27.5°	7376.0	6639.7	4291.0	2628.3	2494.1	2635.7	2742.0	2811.0	2874.3	2934.0	2945.2
30°	7362.9	6436.5	3687.1	2359.9	2440.0	2581.7	2663.7	2714.0	2790.5	2837.1	2846.4
32.5°	7342.4	6199.8	3057.0	2216.3	2395.3	2531.4	2579.8	2624.6	2622.7	2604.1	2617.1
35°	7349.9	5916.5	2546.3	2130.6	2356.1	2494.1	2535.1	2479.2	2318.9	2311.4	2304.0
37.5°	7389.0	5636.9	2175.3	2070.9	2335.6	2488.5	2510.9	2253.6	2112.0	2046.7	2029.9
40°	7489.7	5310.6	1931.1	2026.2	2333.8	2531.4	2400.9	2139.9	1867.8	1741.0	1731.7
42.5°	7623.9	4990.0	1782.0	1998.2	2356.1	2596.6	2356.1	1979.6	1683.2	1608.7	1597.5
45°	7823.4	4622.8	1700.0	1985.2	2389.7	2620.8	2341.2	1862.2	1608.7	1549.0	1549.0
47.5°	8048.9	4272.4	1655.3	1975.9	2432.6	2604.1	2208.9	1824.9	1573.2	1580.7	1616.1
50°	8272.6	3968.5	1621.7	1955.4	2469.8	2594.7	2154.8	1823.0	1582.6	1677.6	1741.0
52.5°	8531.7	3754.2	1580.7	1921.8	2469.8	2535.1	2138.1	1860.3	1608.7	1636.6	1664.6
55°	8844.9	3687.1	1528.5	1849.1	2425.1	2386.0	2128.7	1914.4	1627.3	1562.1	1573.2
57.5°	9258.7	3795.2	1478.2	1757.8	2322.6	2231.3	2125.0	1929.3	1584.4	1530.4	1519.2
60°	9739.6	4009.5	1463.3	1664.6	2182.8	2098.9	2102.6	1886.4	1524.8	1468.9	1478.2
62.5°	10077.0	4138.2	1453.9	1593.8	2029.9	1953.5	2048.6	1834.2	1498.7	1450.2	1459.5
65°	10077.0	3981.6	1368.2	1485.6	1832.3	1778.3	1983.3	1769.0	1465.1	1409.2	1399.9
67.5°	9694.9	3524.9	1237.7	1323.5	1614.3	1578.8	1892.0	1690.7	1414.8	1371.9	1349.6
70°	8699.5	2673.0	1073.7	1133.3	1338.4	1370.1	1774.6	1584.4	1330.9	1278.7	1245.2
71°	8261.4	2328.2	1004.7	1036.4	1232.1	1278.7	1718.6	1539.7	1293.6	1219.1	1159.4
72.5°	7417.0	1961.0	900.3	913.4	1053.2	1137.1	1601.2	1453.9	1222.8	1116.6	1049.5
75°	5635.0	1431.6	725.1	717.7	779.2	902.2	1355.2	1295.5	1071.8	928.3	889.1
77.5°	2434.4	779.2	542.4	548.0	529.4	684.1	1066.2	1112.8	919.0	754.9	719.5
80°	738.2	449.2	370.9	378.4	354.2	458.6	751.2	872.4	738.2	587.2	538.7
82.5°	378.4	268.4	253.5	249.8	225.5	259.1	454.8	596.5	527.5	367.2	324.3
85°	164.0	143.5	124.9	121.2	106.3	93.2	162.2	298.2	279.6	205.0	195.7
87.5°	41.0	37.3	24.2	22.4	13.0	1.9	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)