

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: P382693

Luminaire Tested: **GLEON-SA0D-735-U-SL4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P382693
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-24)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA0D-735-U-SL4
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 67981.6 lumens
Efficiency: N/A
Efficacy: 106.2 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B4 - U0 - G5

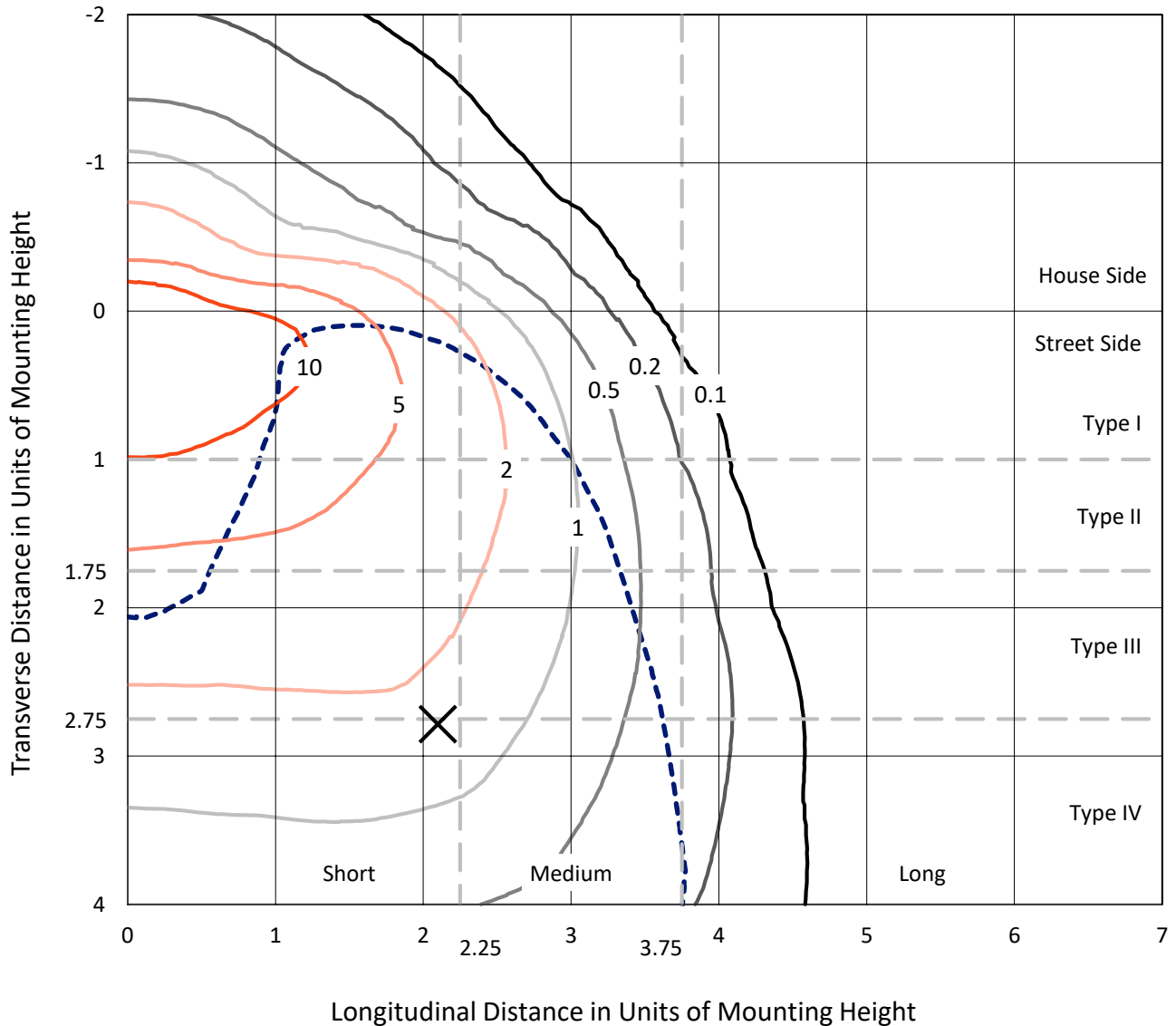
Input Watts (W): 640
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

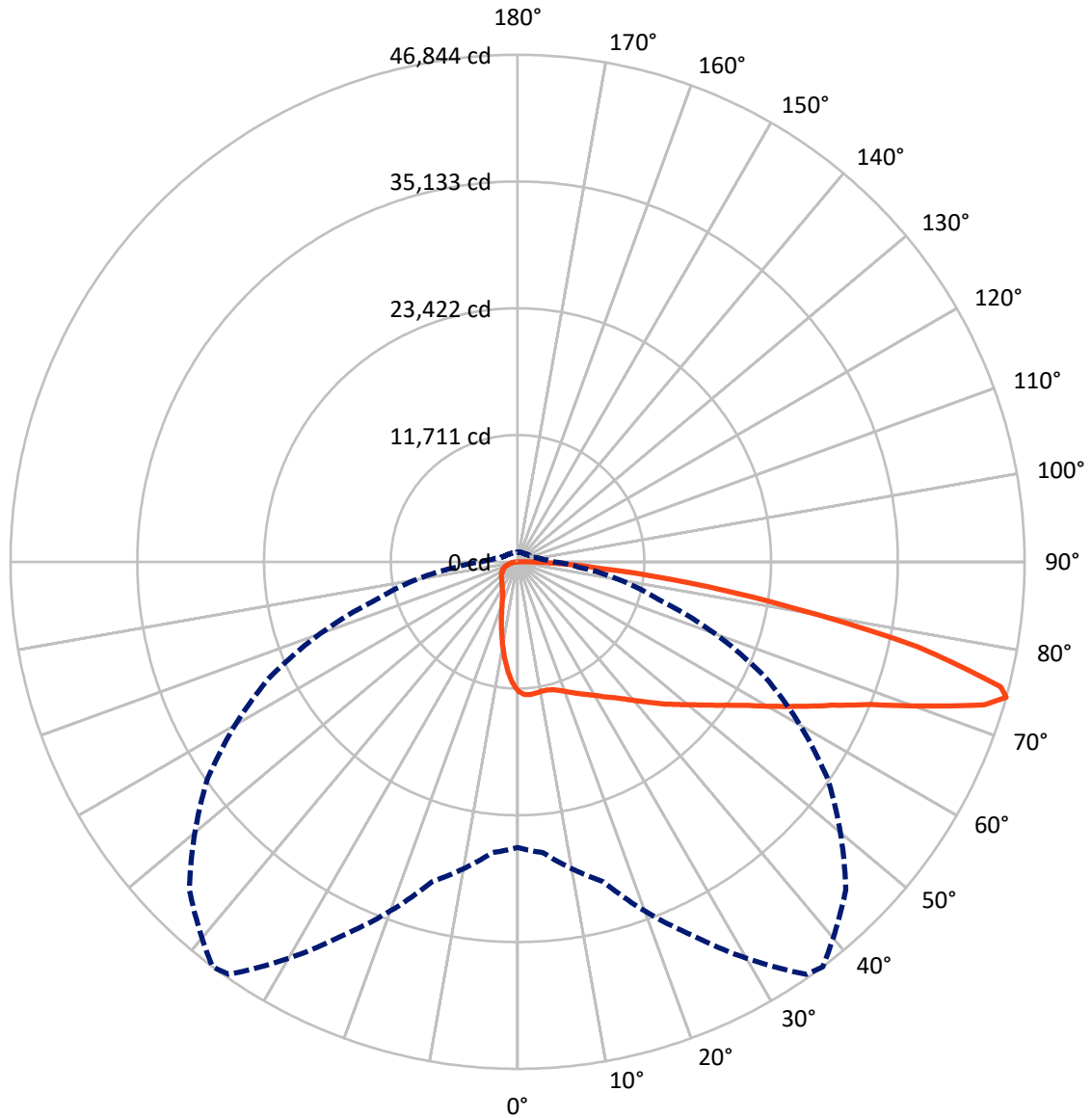
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 19.5 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 37-Deg Lateral - - - Horizontal Cone Through 74-Deg Vertical

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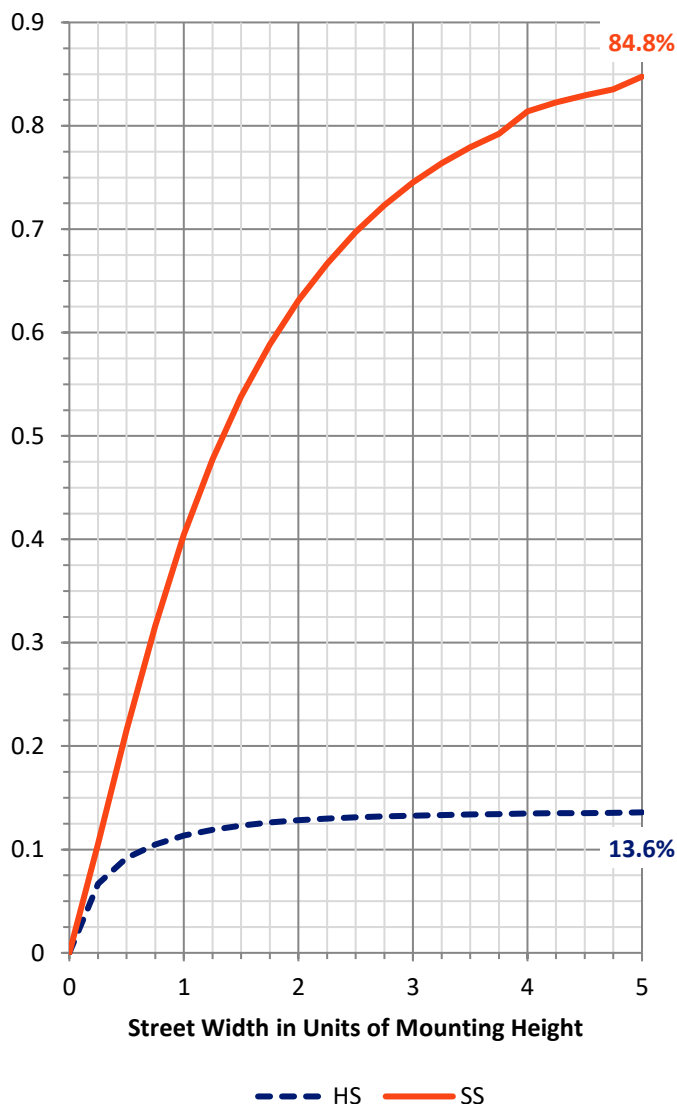
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9353.8	0.0	9353.8
	% Fixture	13.8	0.0	13.8
Street Side	Lumens	58627.8	0.0	58627.8
	% Fixture	86.2	0.0	86.2
Total	Lumens	67981.6	0.0	67981.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1054.8	1.6
10°-20°	2703.7	4.0
20°-30°	4165.9	6.1
30°-40°	6057.9	8.9
40°-50°	8916.2	13.1
50°-60°	12521.2	18.4
60°-70°	15848.0	23.3
70°-80°	13954.7	20.5
80°-90°	2759.1	4.1
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°	67981.6	100.0
0°-180°	67981.6	100.0

Coefficient of Utilization

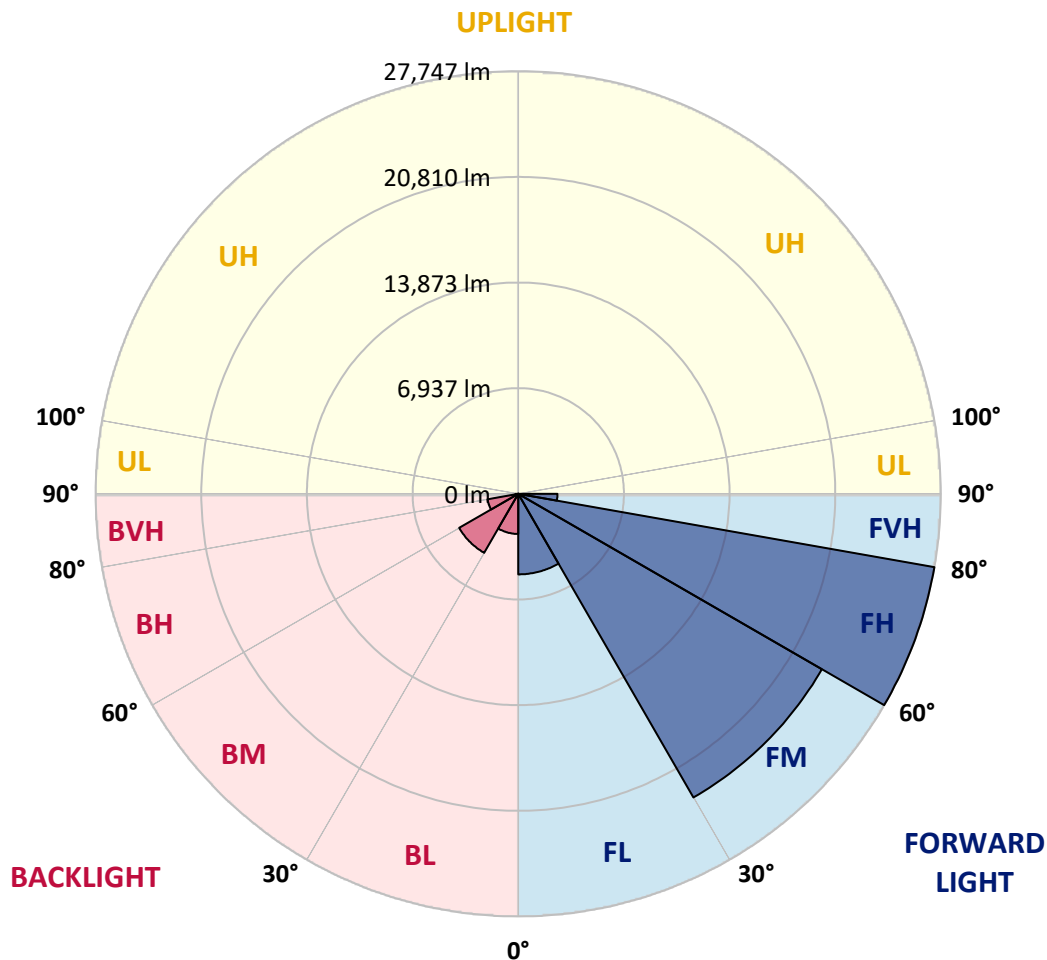


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5289.8	7.8			
FM (30°-60°)	23019.1	33.9			
FH (60°-80°)	27746.6	40.8			G5
FVH (80°-90°)	2572.3	3.8			G5
BL (0°-30°)	2634.7	3.9	B4/5000		
BM (30°-60°)	4476.1	6.6	B3/5000		
BH (60°-80°)	2056.1	3.0	B3/2500		G3/2500
BVH (80°-90°)	186.8	0.3			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5
 Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	37°	45°	55°	65°	75°	85°
0°	11978.1	11978.1	11978.1	11978.1	11978.1	11978.1	11978.1	11978.1	11978.1	11978.1	11978.1
2.5°	12387.5	12390.0	12387.5	12368.4	12322.9	12284.6	12253.5	12207.9	12107.4	12030.8	11915.8
5°	12504.9	12490.6	12481.0	12445.0	12373.2	12330.1	12270.3	12184.0	12018.8	11865.5	11678.7
7.5°	12449.9	12433.1	12411.5	12368.4	12287.0	12251.1	12167.2	12054.7	11856.0	11654.8	11386.6
10°	12279.8	12275.0	12265.4	12255.9	12186.4	12157.7	12081.1	11961.4	11765.0	11520.7	11207.0
12.5°	12090.6	12102.6	12141.0	12191.3	12160.0	12145.7	12097.8	12016.4	11815.3	11551.8	11173.4
15°	11970.9	12004.4	12107.4	12239.1	12265.4	12260.7	12248.6	12196.0	11982.9	11690.7	11250.1
17.5°	11930.2	11985.3	12181.7	12399.6	12476.2	12492.9	12497.7	12406.7	12169.6	11860.7	11329.1
20°	12004.4	12073.9	12361.3	12660.6	12782.7	12792.3	12770.7	12612.7	12346.8	12006.8	11372.2
22.5°	12229.5	12291.8	12651.0	12988.7	13127.6	13141.9	13077.3	12837.8	12533.6	12179.2	11432.1
25°	12663.0	12739.6	13098.8	13436.5	13508.3	13510.7	13417.3	13120.4	12777.9	12421.1	11561.4
27.5°	13228.1	13304.7	13628.0	13958.5	13920.1	13898.6	13771.7	13474.7	13096.3	12753.9	11791.3
30°	13857.9	13941.7	14248.2	14482.9	14391.9	14348.8	14245.8	13862.6	13539.4	13209.0	12143.3
32.5°	14509.2	14585.9	14854.1	15014.5	14899.5	14880.4	14724.8	14375.2	14116.5	13903.3	12713.2
35°	15177.3	15232.4	15495.8	15586.8	15433.6	15428.8	15385.7	15064.8	14902.0	15002.6	13541.8
37.5°	15859.8	15874.2	16099.3	16104.1	16058.6	16077.8	16123.2	15922.1	15967.6	16281.3	14619.4
40°	16468.1	16506.4	16669.2	16719.5	16798.5	16865.6	17093.1	16961.3	17313.4	17868.9	15960.4
42.5°	16918.3	16992.5	17253.6	17382.9	17639.0	17744.4	18065.3	18187.4	18896.3	19729.6	17555.2
45°	17299.0	17414.0	17833.0	18098.9	18532.3	18716.7	19176.5	19585.9	20685.1	21748.3	19233.9
47.5°	17710.9	17856.9	18381.4	18889.1	19478.2	19686.5	20522.3	21135.2	22593.6	23779.0	20816.7
50°	18316.7	18429.3	18941.7	19739.2	20474.3	20742.6	21899.2	22778.0	24533.2	25713.9	22188.9
52.5°	19162.0	19119.0	19552.4	20670.7	21657.3	21987.8	23369.5	24526.1	26499.3	27464.4	23347.9
55°	20012.2	19940.3	20244.5	21645.3	23036.6	23383.8	24988.3	26281.4	28369.5	29040.1	24236.4
57.5°	20958.1	20821.6	21077.8	22744.5	24607.5	25021.8	26801.0	28146.8	30208.6	30314.0	24801.5
60°	21932.7	21748.3	22035.7	24107.1	26602.3	27090.8	28922.7	29966.8	31942.4	31334.1	24983.5
62.5°	22785.2	22655.9	23098.8	25627.6	28850.9	29387.3	31006.0	31901.7	33652.2	31757.9	24327.4
65°	23530.0	23551.5	24317.8	27337.5	31358.0	31930.4	33395.9	34286.7	34998.0	31506.5	22792.4
67.5°	24418.4	24540.5	25847.9	29588.4	34514.2	35141.6	36873.0	36887.3	35749.9	30031.4	19770.3
70°	25713.9	25965.3	27952.9	32711.0	39001.8	39863.9	41200.1	38415.2	34693.8	26032.4	15555.7
72.5°	26863.3	27332.6	30191.8	36283.9	44471.2	45125.0	43731.2	37533.9	30280.4	19509.3	9691.2
74°	26396.3	26978.3	30598.9	38043.9	46530.6	46844.4	42876.3	34962.0	25246.9	13510.7	5632.2
75°	25390.5	26022.8	30005.1	38027.2	46269.6	46094.8	40812.2	32023.8	20792.8	9214.7	3747.6
77.5°	20491.1	21159.2	25282.9	32591.3	37938.6	37773.3	31350.9	21482.5	9106.9	3022.0	1903.7
80°	11913.5	12423.5	15694.6	20697.0	25582.2	25881.5	20618.0	10629.9	3582.5	1697.8	1290.8
82.5°	5292.2	5644.2	7581.5	10565.2	15438.4	15823.9	10797.5	5570.0	2212.7	1032.1	775.9
85°	3472.3	3733.3	4602.5	5031.2	7351.6	7615.0	5285.0	4336.7	1460.8	567.5	569.9
87.5°	2497.7	2749.1	3419.6	2986.2	3374.1	3194.5	2876.0	4013.5	586.7	323.2	191.5
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°	11978.1	11978.1	11978.1	11978.1	11978.1	11978.1	11978.1	11978.1	11978.1	11978.1	11978.1
2.5°	11865.5	11827.2	11741.0	11578.2	11487.2	11410.5	11283.6	11209.4	11175.9	11173.4	11187.9
5°	11571.0	11482.3	11259.7	10986.7	10768.8	10570.0	10323.4	10174.9	10069.6	10007.2	10024.0
7.5°	11228.6	11089.7	10740.1	10304.2	9954.6	9569.0	9188.3	8960.8	8783.7	8651.9	8675.9
10°	10993.8	10802.3	10292.2	9664.8	9083.0	8522.6	7998.2	7684.4	7435.4	7243.8	7258.2
12.5°	10914.9	10656.3	9949.8	9111.7	8295.1	7528.8	6843.9	6362.6	6106.4	5888.5	5905.3
15°	10926.9	10579.6	9662.5	8613.6	7586.2	6621.3	5790.3	5227.6	4880.3	4729.5	4731.9
17.5°	10936.4	10491.0	9360.7	8079.6	6884.6	5773.5	4870.8	4300.8	3972.8	3833.9	3836.2
20°	10905.3	10347.4	8987.2	7466.5	6151.8	4995.2	4121.2	3637.5	3388.4	3280.7	3280.7
22.5°	10864.5	10177.3	8565.7	6851.2	5428.7	4320.0	3584.8	3216.0	3072.3	3000.5	2998.1
25°	10883.7	10050.4	8134.6	6218.9	4763.0	3781.2	3228.0	2983.7	2888.0	2842.4	2840.1
27.5°	10986.7	9990.5	7737.2	5589.1	4181.1	3376.5	2988.5	2816.2	2753.8	2725.1	2725.1
30°	11173.4	9990.5	7322.9	5052.7	3697.3	3077.2	2804.1	2686.8	2643.7	2624.5	2624.5
32.5°	11499.1	10045.6	6923.0	4521.1	3311.8	2842.4	2650.9	2571.9	2538.4	2528.8	2528.8
35°	12059.5	10232.4	6532.7	4018.2	3000.5	2650.9	2504.8	2459.3	2435.3	2433.0	2440.2
37.5°	12847.3	10613.1	6166.3	3647.1	2780.2	2495.2	2382.7	2346.8	2332.4	2344.3	2353.9
40°	13838.7	11130.4	5833.4	3311.8	2612.6	2370.7	2270.2	2246.1	2239.0	2255.7	2270.2
42.5°	15036.1	11829.6	5560.4	3069.9	2483.2	2265.3	2174.3	2145.6	2138.5	2157.6	2176.7
45°	16331.6	12581.6	5368.8	2890.3	2382.7	2186.3	2090.6	2059.4	2045.0	2054.6	2076.1
47.5°	17509.7	13292.7	5292.2	2763.4	2286.9	2119.3	2016.3	1978.0	1954.0	1949.3	1966.0
50°	18503.5	13821.9	5328.1	2686.8	2210.3	2045.0	1944.4	1901.4	1865.4	1843.9	1855.8
52.5°	19226.7	14154.9	5361.6	2653.3	2150.4	1963.6	1865.4	1824.7	1776.8	1740.9	1740.9
55°	19751.1	14231.4	5287.4	2627.0	2104.9	1875.0	1776.8	1738.5	1690.7	1650.0	1645.1
57.5°	19957.1	14016.0	5012.0	2588.6	2073.8	1791.2	1683.4	1654.7	1614.0	1566.1	1563.7
60°	19679.3	13350.2	4480.4	2507.2	2033.1	1721.8	1590.1	1570.9	1551.8	1506.2	1503.9
62.5°	18563.4	11889.5	3793.2	2342.0	1951.7	1647.5	1503.9	1513.4	1515.8	1484.7	1479.9
65°	16539.9	9882.8	3122.6	2126.4	1829.6	1558.9	1415.2	1460.8	1487.1	1482.3	1475.1
67.5°	13599.3	7691.6	2646.1	1899.0	1669.1	1436.8	1319.4	1372.2	1393.7	1410.5	1405.7
70°	10093.5	5423.9	2188.8	1659.5	1475.1	1293.1	1194.9	1221.3	1206.9	1226.1	1233.3
72.5°	5627.5	3254.4	1784.0	1420.1	1274.0	1125.5	1056.0	1051.3	1020.1	1020.1	1020.1
74°	3376.5	2387.5	1568.5	1271.6	1151.9	1015.3	955.5	933.9	905.2	907.6	905.2
75°	2715.6	2052.2	1439.1	1173.4	1065.6	950.6	890.8	862.1	840.5	840.5	838.1
77.5°	1714.6	1558.9	1159.0	933.9	852.5	783.1	742.4	704.1	704.1	701.6	699.2
80°	1295.5	1240.4	902.8	706.4	653.8	601.0	574.7	558.0	558.0	565.2	562.7
82.5°	888.4	933.9	634.6	493.3	467.0	428.6	423.9	426.3	419.1	409.5	407.1
85°	648.9	701.6	428.6	311.3	285.0	261.0	280.2	289.7	277.8	256.3	246.7
87.5°	249.0	459.8	229.9	129.3	119.7	102.9	119.7	124.5	134.1	105.4	107.8
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)