

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: P534032

Luminaire Tested: **GALN-SA9C-730-U-SL3-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P534032  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-20)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA9C-730-U-SL3-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
SPILL LIGHT ELIMINATOR OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 49105 lumens  
Efficiency: N/A  
Efficacy: 102.1 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B4 - U0 - G4

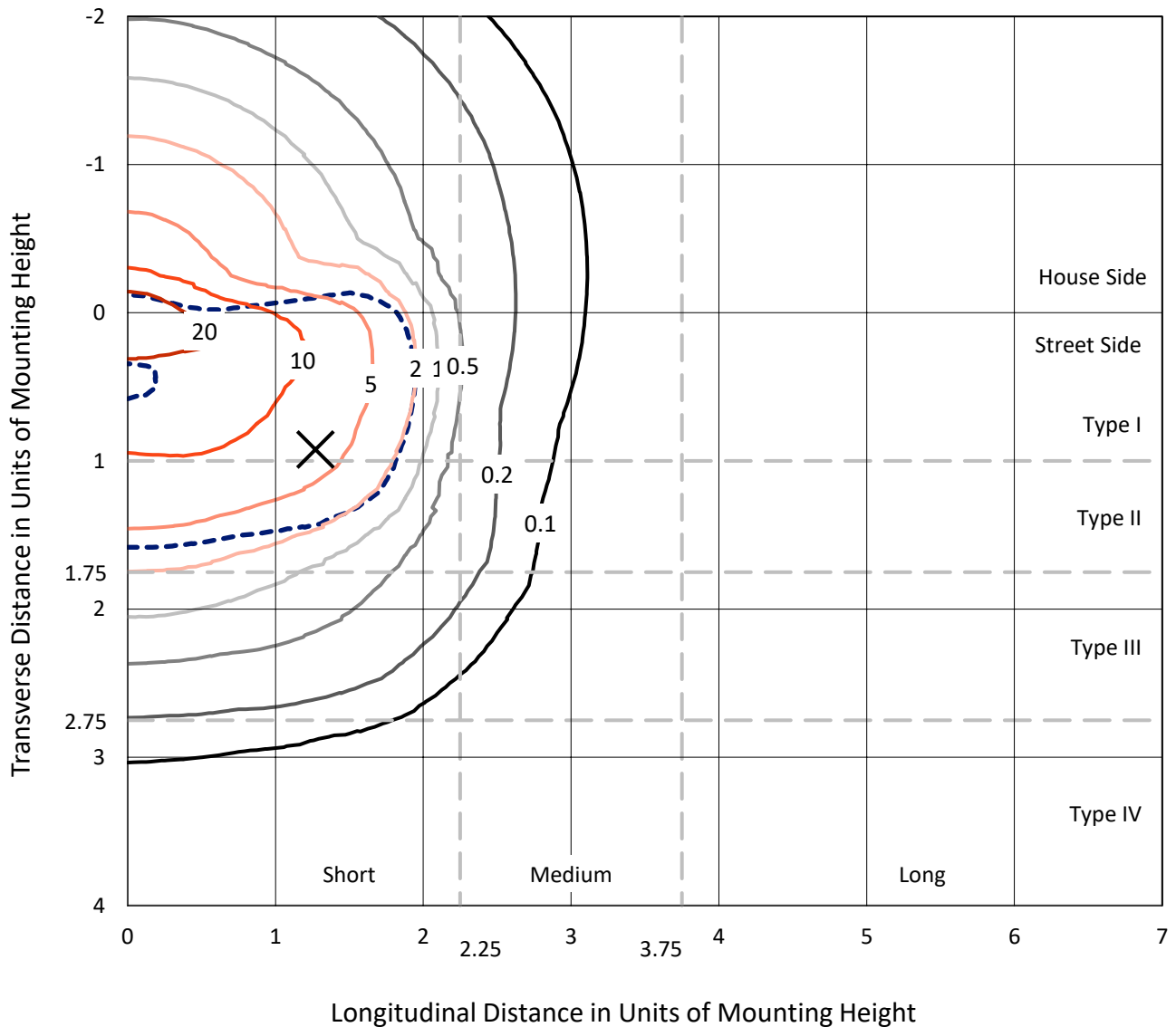
Input Watts (W): 481  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

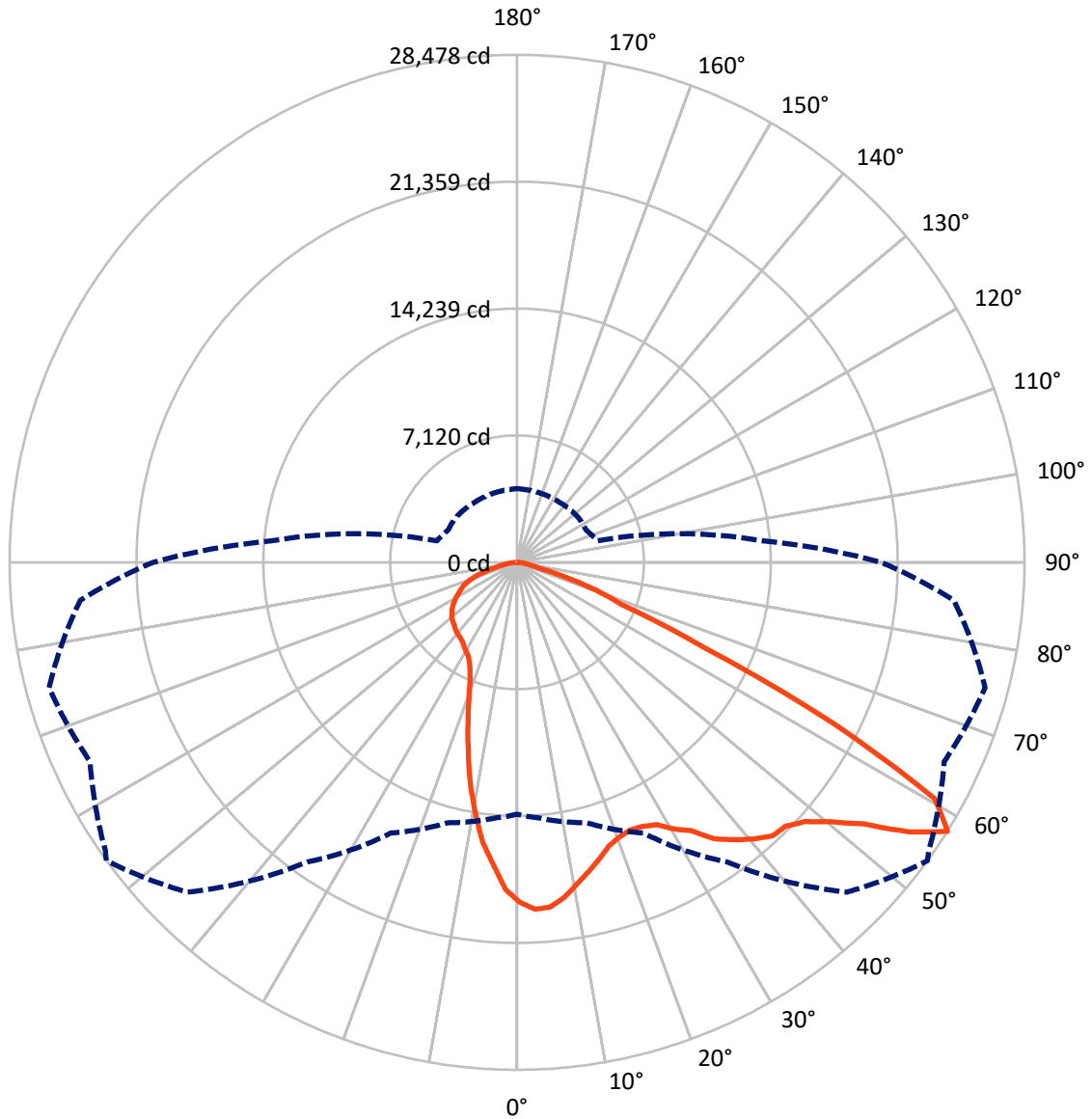
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 30.5 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral    - - - Horizontal Cone Through 57.5-Deg Vertical

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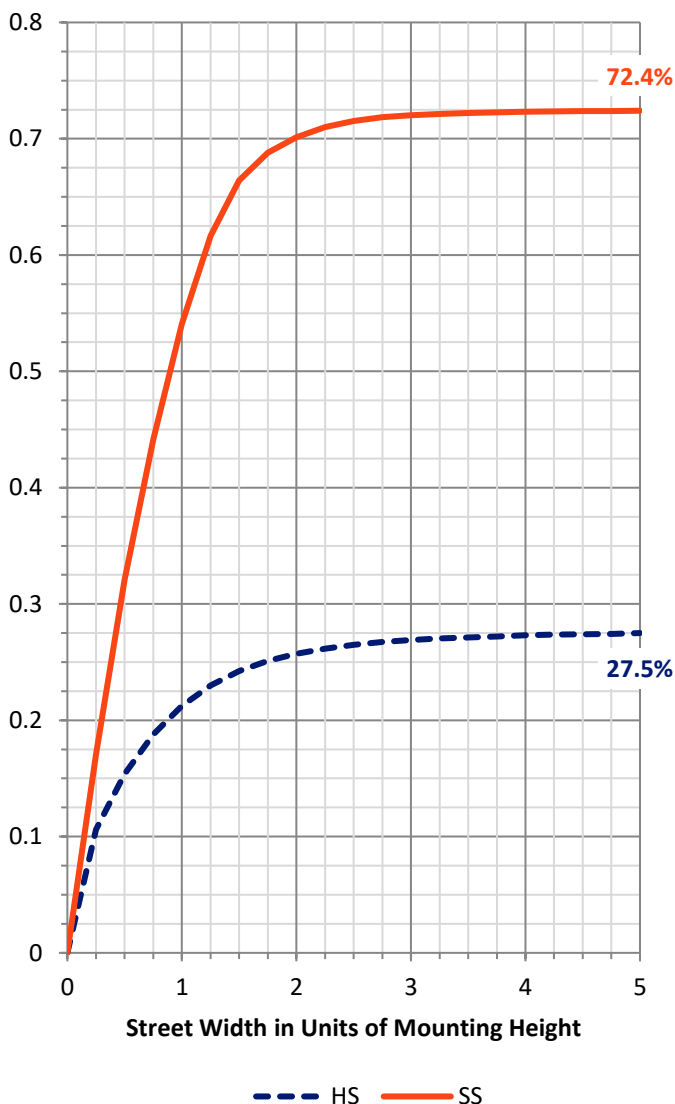
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	13585.2	0.0	13585.2
	% Fixture	27.7	0.0	27.7
<b>Street Side</b>	Lumens	35519.8	0.0	35519.8
	% Fixture	72.3	0.0	72.3
<b>Total</b>	Lumens	49105.0	0.0	49105.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1646.0	3.4
10°-20°	3811.2	7.8
20°-30°	5354.7	10.9
30°-40°	7486.0	15.2
40°-50°	10134.6	20.6
50°-60°	12344.3	25.1
60°-70°	6429.5	13.1
70°-80°	1647.5	3.4
80°-90°	251.3	0.5
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°	49105.0	100.0
0°-180°	49105.0	100.0

**Coefficient of Utilization**

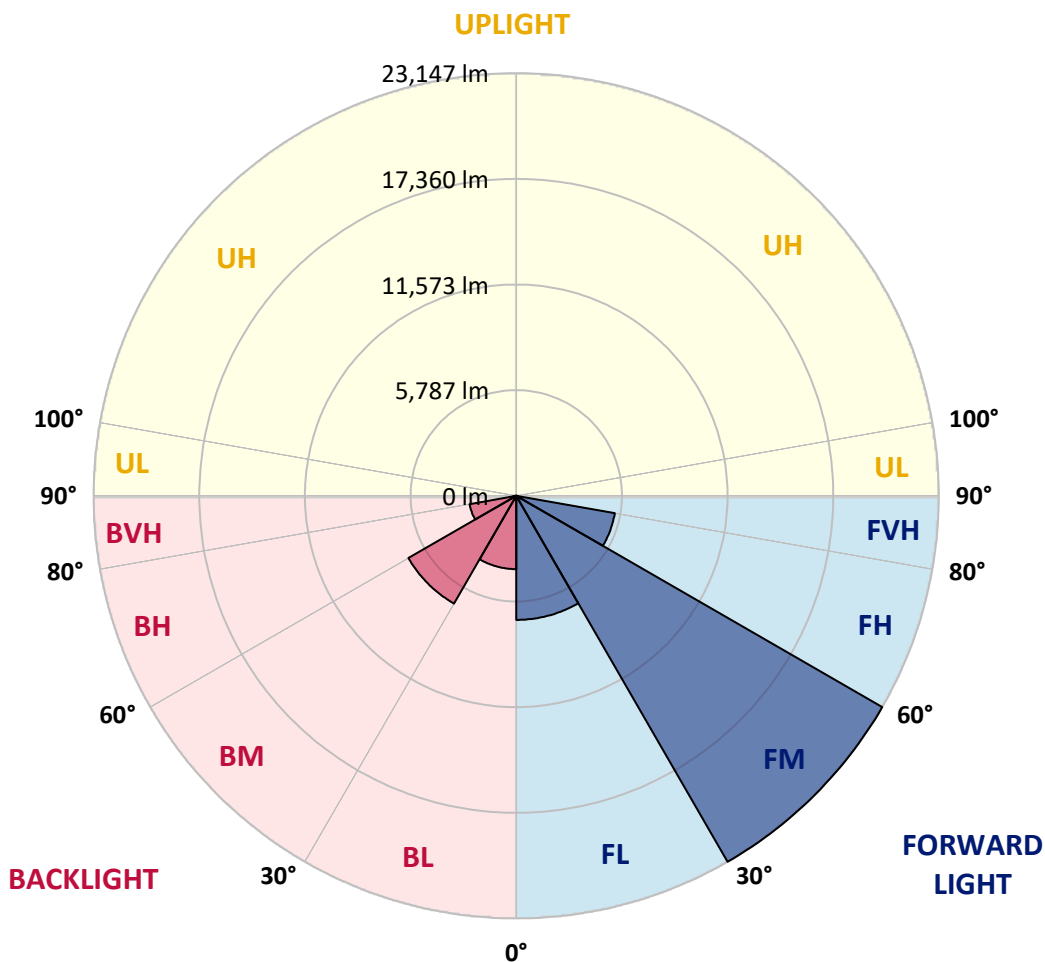


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	6796.8	13.8			
FM (30°-60°)	23146.6	47.1			
FH (60°-80°)	5481.5	11.2			G3/7500
FVH (80°-90°)	95.0	0.2			G1/100
BL (0°-30°)	4015.1	8.2	B4/5000		
BM (30°-60°)	6818.3	13.9	B4/8500		
BH (60°-80°)	2595.4	5.3	B4/5000		G4/5000
BVH (80°-90°)	156.3	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-G4**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	19086.6	19086.6	19086.6	19086.6	19086.6	19086.6	19086.6	19086.6	19086.6	19086.6	19086.6
2.5°	19629.4	19553.6	19566.2	19667.2	19541.0	19490.5	19490.5	19244.3	19263.3	19092.9	19048.7
5°	19174.9	18998.2	19118.1	19269.6	19294.8	19345.3	19427.4	19364.3	19187.5	19004.5	18707.8
7.5°	17988.3	18146.1	18190.3	18297.6	18524.8	18733.1	18991.9	18815.1	18808.8	18625.8	18449.1
10°	16946.9	16852.2	17092.1	17249.8	17628.6	17975.7	18373.3	18354.4	18449.1	18240.8	17937.8
12.5°	15911.8	15836.0	15949.6	16309.4	16839.6	17344.5	17817.9	17641.2	18146.1	18108.2	17458.1
15°	14813.5	14870.3	15034.4	15369.0	16063.3	16669.2	17268.8	17275.1	17723.2	17874.7	17003.7
17.5°	14043.5	13980.4	14188.7	14687.3	15305.8	16031.7	16713.4	16852.2	17540.2	17628.6	16864.8
20°	13469.1	13557.5	13828.9	14081.4	14794.6	15671.9	16442.0	16492.4	17502.3	17742.2	16643.9
22.5°	13330.3	13279.8	13368.2	13778.4	14365.4	15318.5	16296.8	16486.1	17496.0	17704.3	16227.4
25°	13185.1	13349.2	13342.9	13753.2	14182.4	15034.4	16416.7	16625.0	17830.5	17900.0	16284.2
27.5°	13513.3	13494.4	13671.1	13702.7	14232.9	15110.2	16669.2	16827.0	18386.0	18329.1	16328.3
30°	13841.5	13746.9	13854.2	14226.5	14472.7	15545.7	17363.5	17350.8	19105.5	19067.6	16467.2
32.5°	14245.5	14201.3	14270.7	14598.9	15015.5	16126.4	17950.4	18322.8	19837.6	20077.5	16946.9
35°	14321.2	14504.3	14668.4	15110.2	15703.5	17066.8	19055.0	19364.3	20683.4	21434.5	17862.1
37.5°	14800.9	14870.3	15255.4	16038.0	16580.8	18322.8	19755.6	19951.3	21453.4	22305.5	18827.8
40°	15312.2	15394.2	15974.9	16795.4	17540.2	19143.4	20412.0	20475.1	21699.6	22974.6	19458.9
42.5°	16006.4	16082.2	16656.6	17685.4	18682.6	19844.0	20992.7	21062.1	21680.7	23744.6	20462.5
45°	16726.0	16909.0	17584.4	18752.0	19648.3	20664.5	21125.2	21409.3	21857.4	24432.6	21276.7
47.5°	17735.8	17906.3	18461.7	19604.1	20651.9	21384.0	21737.5	22015.2	22280.3	25032.2	21800.6
50°	18808.8	18840.4	19515.7	20550.9	21320.9	22198.2	22879.9	22974.6	22835.7	25726.4	22690.5
52.5°	19597.8	19698.8	20222.7	21232.5	22381.3	23460.6	24394.7	24495.7	24224.3	25985.2	22993.5
55°	18291.3	18234.5	19086.6	20430.9	23094.5	25341.4	26698.4	26774.2	25234.1	26786.8	23984.4
57.5°	14138.2	14409.6	15135.4	16757.5	20519.3	26174.6	28478.3	28206.9	26446.0	27190.8	24615.6
60°	10275.4	10212.3	10698.3	11783.9	15463.6	22558.0	26925.7	27203.4	25455.0	24508.3	20298.4
62.5°	8369.3	8280.9	8318.8	8356.7	9978.8	14971.3	19932.3	19926.0	19604.1	17615.9	13690.1
65°	6690.4	6898.7	6917.6	7201.6	7409.9	8943.7	11550.4	12168.9	10597.3	8691.2	6305.4
67.5°	5043.0	4967.3	5219.8	6229.6	6621.0	6456.9	6305.4	6374.8	4531.8	3269.5	3080.1
70°	2972.8	2941.2	3244.2	4342.4	5453.3	5131.4	4752.7	4759.0	3111.7	2284.8	2543.6
72.5°	1628.4	1622.1	1685.2	2202.8	3099.0	3219.0	2852.9	2941.2	1855.6	1849.3	1988.2
75°	908.9	889.9	871.0	972.0	1117.2	1180.3	1205.5	1218.2	1275.0	1426.4	1483.2
77.5°	334.5	321.9	321.9	372.4	473.4	593.3	751.1	763.7	902.6	1035.1	1091.9
80°	113.6	126.2	170.4	233.5	315.6	422.9	511.2	523.9	637.5	725.8	744.8
82.5°	69.4	75.7	113.6	164.1	227.2	296.6	378.7	385.0	473.4	530.2	555.4
85°	31.6	37.9	63.1	101.0	145.2	195.7	202.0	202.0	195.7	202.0	189.4
87.5°	0.0	0.0	12.6	12.6	12.6	18.9	25.2	18.9	31.6	37.9	37.9
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°	19086.6	19086.6	19086.6	19086.6	19086.6	19086.6	19086.6	19086.6	19086.6	19086.6	19086.6
2.5°	18916.1	18846.7	18632.1	18442.8	18386.0	18133.5	17761.1	17805.3	17533.9	17660.1	17527.6
5°	18657.4	18423.8	17874.7	17641.2	17028.9	16751.2	16561.9	16088.5	15867.6	15823.4	15634.1
7.5°	17994.6	17849.5	17161.5	16530.3	15880.2	15324.8	14611.6	14125.6	13778.4	13683.7	13406.0
10°	17470.8	17148.9	16195.8	15236.4	14308.6	13342.9	12415.1	11689.3	11335.8	10925.5	10786.7
12.5°	16953.2	16467.2	15179.6	13948.8	12749.6	11531.5	10408.0	9524.3	8754.3	8571.3	8508.2
15°	16631.3	15785.5	14270.7	12787.5	11083.3	9492.8	8369.3	7788.6	7315.2	7119.6	7258.4
17.5°	16208.4	15223.8	13399.7	11424.2	9549.6	8085.3	7144.8	6785.1	6614.7	6633.6	6576.8
20°	15678.2	14693.6	12257.3	10187.1	8180.0	7012.3	6475.8	6343.2	6368.5	6412.7	6393.7
22.5°	15299.5	14049.8	11430.5	8924.7	7069.1	6419.0	6198.1	6103.4	6185.5	6223.3	6191.8
25°	15009.2	13500.7	10426.9	7807.6	6425.3	6084.5	5983.5	5977.2	6103.4	6153.9	6122.3
27.5°	14744.1	12989.5	9429.7	6955.5	5996.1	5825.7	5794.1	5869.9	5951.9	6002.4	6046.6
30°	14586.3	12598.1	8495.5	6242.3	5781.5	5699.5	5642.7	5712.1	5756.3	5806.8	5781.5
32.5°	14737.8	12320.4	7593.0	5838.3	5604.8	5522.7	5598.5	5554.3	5630.0	5674.2	5604.8
35°	15211.2	12074.3	6949.2	5623.7	5402.8	5434.4	5447.0	5428.1	5459.6	5421.7	5503.8
37.5°	15678.2	11985.9	6355.9	5440.7	5308.1	5308.1	5295.5	5257.6	5320.8	5308.1	5346.0
40°	16271.5	12042.7	5850.9	5245.0	5219.8	5207.1	5156.7	5150.3	5125.1	5131.4	5144.0
42.5°	16789.1	12168.9	5560.6	5118.8	5137.7	5163.0	5068.3	4992.5	5024.1	4961.0	4961.0
45°	17338.2	12282.5	5301.8	5030.4	5011.5	5005.2	4929.4	4885.2	4860.0	4866.3	4923.1
47.5°	18202.9	12446.7	5106.2	4910.5	4923.1	4828.4	4809.5	4752.7	4777.9	4815.8	4822.1
50°	18815.1	12793.8	4954.7	4771.6	4815.8	4752.7	4639.1	4613.8	4613.8	4677.0	4664.3
52.5°	19244.3	13279.8	4809.5	4620.2	4639.1	4588.6	4550.7	4493.9	4456.1	4544.4	4588.6
55°	20557.2	14087.7	4771.6	4493.9	4487.6	4437.1	4367.7	4310.9	4291.9	4304.6	4392.9
57.5°	20430.9	13835.2	4651.7	4273.0	4260.4	4191.0	4121.5	4102.6	4096.3	4108.9	4134.2
60°	16587.1	10218.6	4153.1	4020.5	4001.6	3989.0	3919.6	3843.8	3805.9	3843.8	3812.3
62.5°	10976.0	6841.9	3660.8	3717.6	3730.2	3698.7	3585.0	3509.3	3521.9	3566.1	3496.7
65°	5390.2	4020.5	3319.9	3471.4	3484.1	3395.7	3288.4	3200.0	3155.8	3193.7	3162.2
67.5°	3080.1	3073.8	3042.2	3200.0	3193.7	3105.4	2934.9	2859.2	2783.5	2796.1	2777.1
70°	2613.0	2663.5	2726.7	2821.3	2815.0	2714.0	2512.1	2455.2	2347.9	2335.3	2303.8
72.5°	2057.6	2146.0	2284.8	2354.3	2297.5	2171.2	2038.7	1944.0	1849.3	1792.5	1811.5
75°	1527.4	1653.7	1729.4	1773.6	1685.2	1615.8	1508.5	1394.9	1281.3	1230.8	1211.8
77.5°	1110.9	1148.7	1218.2	1249.7	1192.9	1123.5	1060.4	946.8	839.5	770.0	751.1
80°	776.3	801.6	852.1	852.1	852.1	820.5	738.5	624.9	555.4	492.3	479.7
82.5°	542.8	568.1	618.5	593.3	587.0	549.1	498.6	410.3	334.5	290.3	277.7
85°	189.4	208.3	252.5	303.0	321.9	315.6	284.0	227.2	176.7	145.2	132.5
87.5°	44.2	44.2	50.5	44.2	44.2	50.5	44.2	44.2	44.2	31.6	25.2
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)