

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: P534188

Luminaire Tested: **GALN-SA9C-830-U-SL3-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P534188
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-830-U-SL3-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 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: 42847 lumens
Efficiency: N/A
Efficacy: 89.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G3

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



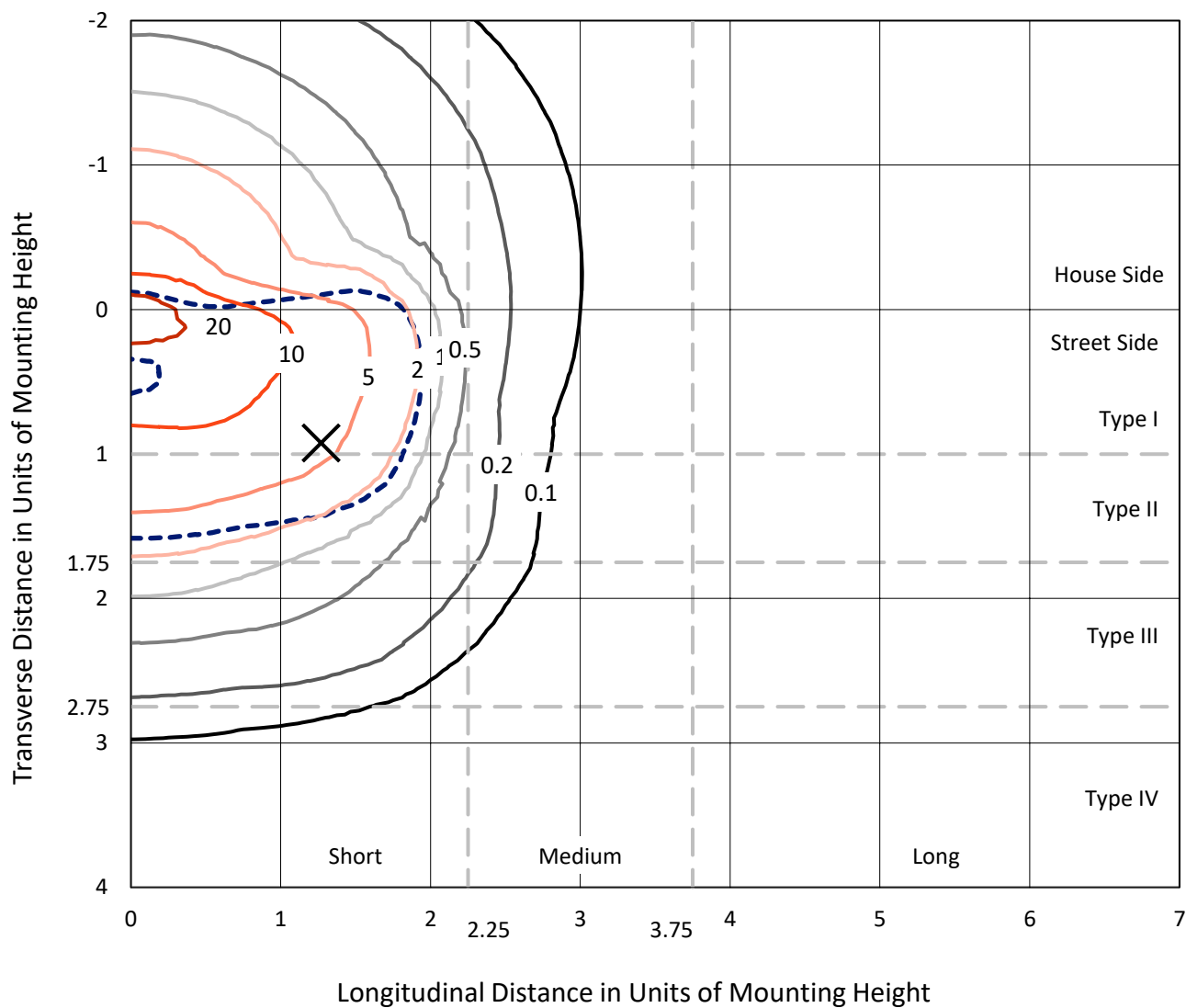
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

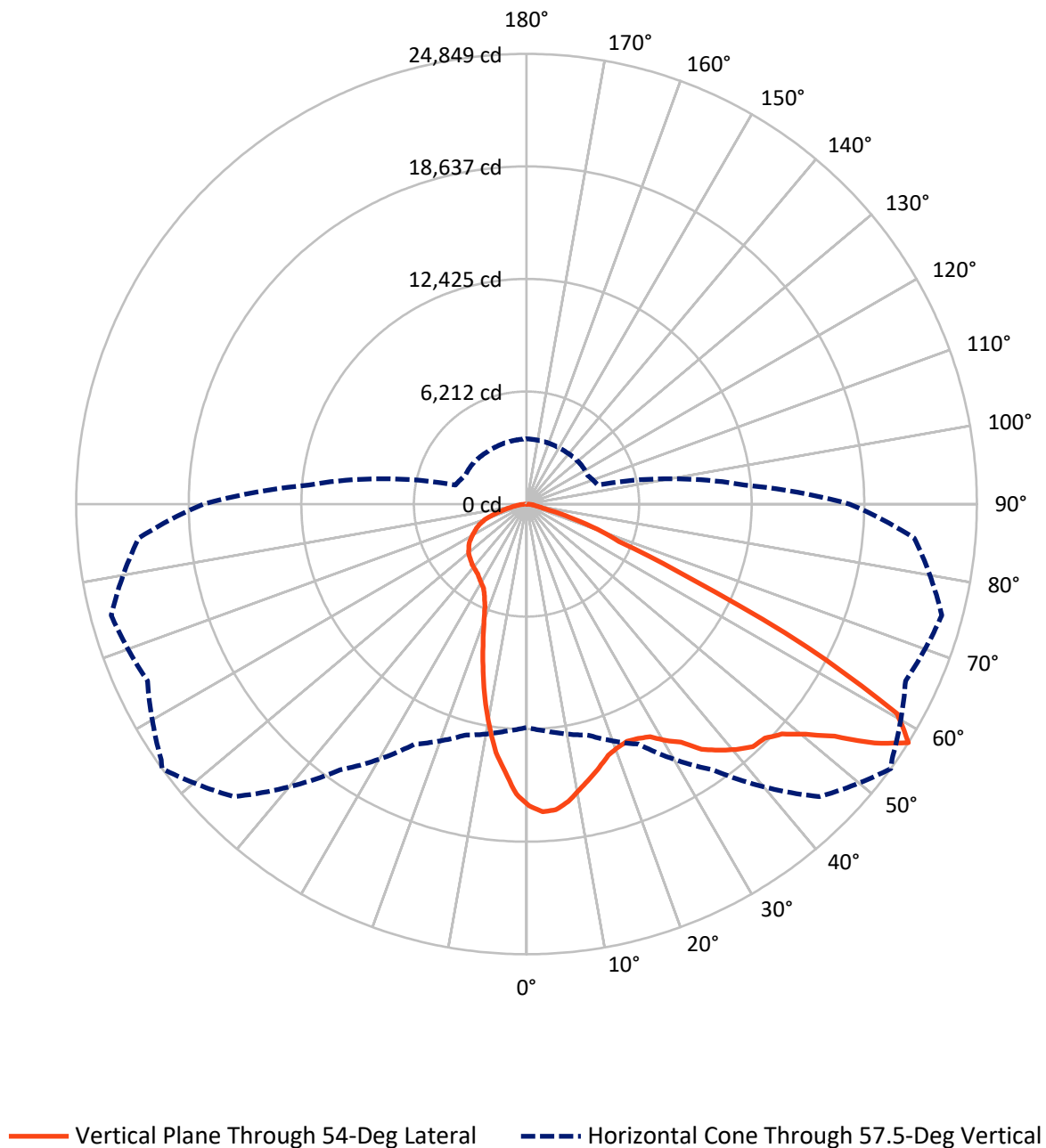


Based on 25 foot mounting height. Maximum calculated value = 26.6 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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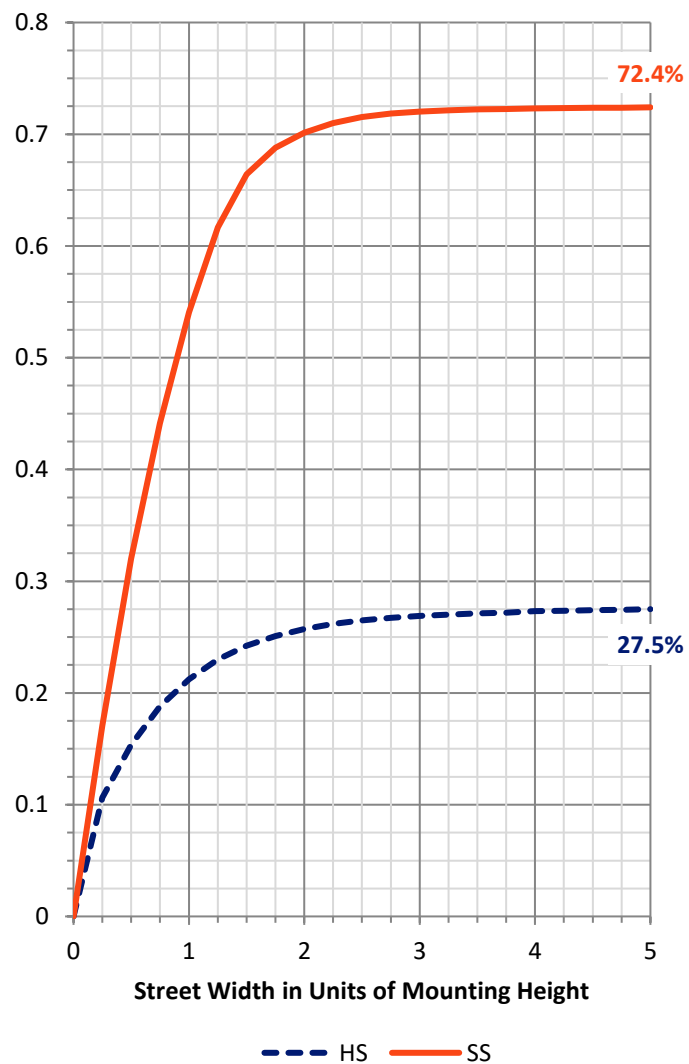
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11853.9	0.0	11853.9
	% Fixture	27.7	0.0	27.7
Street Side	Lumens	30993.1	0.0	30993.1
	% Fixture	72.3	0.0	72.3
Total	Lumens	42847.0	0.0	42847.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1436.3	3.4
10°-20°	3325.5	7.8
20°-30°	4672.3	10.9
30°-40°	6531.9	15.2
40°-50°	8843.0	20.6
50°-60°	10771.2	25.1
60°-70°	5610.1	13.1
70°-80°	1437.5	3.4
80°-90°	219.3	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°	42847.0	100.0
0°-180°	42847.0	100.0

Coefficient of Utilization



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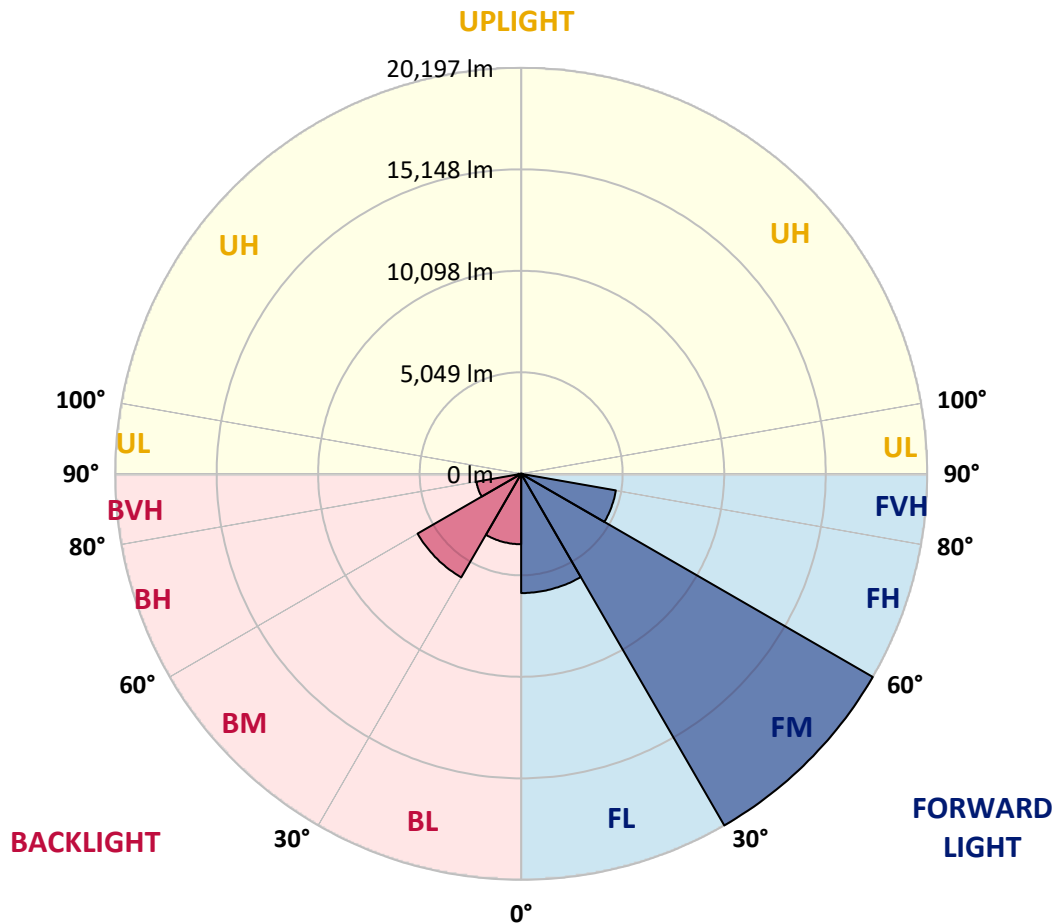
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	5930.6	13.8			
FM	(30°-60°)	20196.7	47.1			
FH	(60°-80°)	4782.9	11.2			G2/5000
FVH	(80°-90°)	82.8	0.2			G1/100
BL	(0°-30°)	3503.4	8.2	B4/5000		
BM	(30°-60°)	5949.3	13.9	B4/8500		
BH	(60°-80°)	2264.7	5.3	B3/2500		G3/2500
BVH	(80°-90°)	136.4	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-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	16654.1	16654.1	16654.1	16654.1	16654.1	16654.1	16654.1	16654.1	16654.1	16654.1	16654.1
2.5°	17127.8	17061.7	17072.7	17160.8	17050.7	17006.6	17006.6	16791.8	16808.3	16659.6	16621.1
5°	16731.2	16577.0	16681.7	16813.9	16835.9	16879.9	16951.5	16896.5	16742.3	16582.5	16323.7
7.5°	15695.9	15833.5	15872.1	15965.7	16164.0	16345.7	16571.5	16417.3	16411.8	16252.1	16097.9
10°	14787.2	14704.5	14913.8	15051.5	15381.9	15684.8	16031.8	16015.3	16097.9	15916.2	15651.8
12.5°	13884.0	13817.9	13917.0	14230.9	14693.5	15134.1	15547.2	15393.0	15833.5	15800.5	15233.2
15°	12925.7	12975.2	13118.4	13410.3	14016.1	14544.8	15068.0	15073.5	15464.6	15596.7	14836.7
17.5°	12253.8	12198.7	12380.5	12815.5	13355.3	13988.6	14583.4	14704.5	15304.8	15381.9	14715.6
20°	11752.6	11829.7	12066.5	12286.8	12909.2	13674.7	14346.6	14390.6	15271.8	15481.1	14522.8
22.5°	11631.5	11587.4	11664.5	12022.5	12534.7	13366.3	14219.9	14385.1	15266.3	15448.0	14159.3
25°	11504.8	11648.0	11642.5	12000.5	12374.9	13118.4	14324.5	14506.3	15558.2	15618.8	14208.9
27.5°	11791.2	11774.7	11928.9	11956.4	12419.0	13184.5	14544.8	14682.5	16042.8	15993.3	14247.4
30°	12077.6	11994.9	12088.6	12413.5	12628.3	13564.5	15150.6	15139.6	16670.7	16637.6	14368.6
32.5°	12430.0	12391.5	12452.1	12738.4	13101.9	14071.2	15662.8	15987.8	17309.5	17518.8	14787.2
35°	12496.1	12655.8	12799.0	13184.5	13702.2	14891.8	16626.6	16896.5	18047.5	18702.9	15585.7
37.5°	12914.7	12975.2	13311.2	13994.1	14467.7	15987.8	17237.9	17408.6	18719.4	19462.9	16428.3
40°	13360.8	13432.4	13939.0	14655.0	15304.8	16703.7	17810.7	17865.7	18934.2	20046.6	16979.1
42.5°	13966.6	14032.7	14533.8	15431.5	16301.7	17315.0	18317.3	18377.9	18917.6	20718.5	17854.7
45°	14594.4	14754.1	15343.4	16362.3	17144.3	18031.0	18433.0	18680.8	19071.9	21318.8	18565.2
47.5°	15475.6	15624.3	16108.9	17105.7	18020.0	18658.8	18967.2	19209.5	19440.8	21842.0	19022.3
50°	16411.8	16439.4	17028.6	17931.8	18603.7	19369.2	19964.0	20046.6	19925.5	22447.8	19798.8
52.5°	17100.2	17188.3	17645.5	18526.6	19529.0	20470.7	21285.8	21373.9	21137.1	22673.6	20063.2
55°	15960.2	15910.6	16654.1	17827.2	20151.3	22111.9	23296.0	23362.1	22018.3	23373.1	20927.8
57.5°	12336.4	12573.2	13206.6	14621.9	17904.3	22838.9	24849.0	24612.2	23075.7	23725.5	21478.6
60°	8965.9	8910.8	9334.9	10282.2	13492.9	19683.2	23494.2	23736.6	22211.0	21384.9	17711.5
62.5°	7302.7	7225.6	7258.6	7291.7	8707.1	13063.4	17392.1	17386.6	17105.7	15370.9	11945.4
65°	5837.8	6019.5	6036.0	6283.9	6465.6	7803.9	10078.4	10618.1	9246.8	7583.6	5501.8
67.5°	4400.3	4334.3	4554.6	5435.7	5777.2	5634.0	5501.8	5562.4	3954.3	2852.8	2687.6
70°	2593.9	2566.4	2830.8	3789.0	4758.3	4477.5	4147.0	4152.5	2715.1	1993.7	2219.5
72.5°	1420.9	1415.4	1470.5	1922.1	2704.1	2808.7	2489.3	2566.4	1619.2	1613.6	1734.8
75°	793.1	776.5	760.0	848.1	974.8	1029.9	1051.9	1062.9	1112.5	1244.7	1294.2
77.5°	291.9	280.9	280.9	324.9	413.0	517.7	655.4	666.4	787.5	903.2	952.8
80°	99.1	110.1	148.7	203.8	275.4	369.0	446.1	457.1	556.2	633.3	649.9
82.5°	60.6	66.1	99.1	143.2	198.3	258.8	330.4	335.9	413.0	462.6	484.6
85°	27.5	33.0	55.1	88.1	126.7	170.7	176.2	176.2	170.7	176.2	165.2
87.5°	0.0	0.0	11.0	11.0	11.0	16.5	22.0	16.5	27.5	33.0	33.0
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°	16654.1	16654.1	16654.1	16654.1	16654.1	16654.1	16654.1	16654.1	16654.1	16654.1	16654.1
2.5°	16505.4	16444.9	16257.6	16092.4	16042.8	15822.5	15497.6	15536.2	15299.3	15409.5	15293.8
5°	16279.6	16075.9	15596.7	15393.0	14858.8	14616.4	14451.2	14038.2	13845.4	13806.9	13641.6
7.5°	15701.4	15574.7	14974.4	14423.7	13856.4	13371.8	12749.4	12325.4	12022.5	11939.9	11697.5
10°	15244.3	14963.4	14131.8	13294.7	12485.1	11642.5	10832.9	10199.6	9891.1	9533.2	9412.0
12.5°	14792.7	14368.6	13245.1	12171.2	11124.8	10061.9	9081.6	8310.5	7638.7	7478.9	7423.9
15°	14511.8	13773.8	12452.1	11157.8	9670.9	8283.0	7302.7	6796.0	6383.0	6212.3	6333.4
17.5°	14142.8	13283.7	11692.0	9968.3	8332.6	7054.9	6234.3	5920.4	5771.7	5788.2	5738.6
20°	13680.2	12821.0	10695.2	8888.8	7137.5	6118.6	5650.5	5534.9	5556.9	5595.4	5578.9
22.5°	13349.7	12259.3	9973.8	7787.4	6168.2	5600.9	5408.2	5325.6	5397.2	5430.2	5402.7
25°	13096.4	11780.2	9098.1	6812.6	5606.5	5309.1	5220.9	5215.4	5325.6	5369.6	5342.1
27.5°	12865.1	11334.1	8227.9	6069.1	5232.0	5083.3	5055.7	5121.8	5193.4	5237.5	5276.0
30°	12727.4	10992.6	7412.9	5446.7	5044.7	4973.1	4923.5	4984.1	5022.7	5066.7	5044.7
32.5°	12859.6	10750.3	6625.3	5094.3	4890.5	4818.9	4885.0	4846.4	4912.5	4951.1	4890.5
35°	13272.6	10535.5	6063.6	4907.0	4714.3	4741.8	4752.8	4736.3	4763.8	4730.8	4802.4
37.5°	13680.2	10458.4	5545.9	4747.3	4631.7	4631.7	4620.6	4587.6	4642.7	4631.7	4664.7
40°	14197.9	10508.0	5105.3	4576.6	4554.6	4543.5	4499.5	4494.0	4471.9	4477.5	4488.5
42.5°	14649.5	10618.1	4851.9	4466.4	4483.0	4505.0	4422.4	4356.3	4383.8	4328.8	4328.8
45°	15128.6	10717.2	4626.1	4389.3	4372.8	4367.3	4301.2	4262.7	4240.6	4246.1	4295.7
47.5°	15883.1	10860.4	4455.4	4284.7	4295.7	4213.1	4196.6	4147.0	4169.0	4202.1	4207.6
50°	16417.3	11163.3	4323.2	4163.5	4202.1	4147.0	4047.9	4025.9	4025.9	4080.9	4069.9
52.5°	16791.8	11587.4	4196.6	4031.4	4047.9	4003.8	3970.8	3921.2	3888.2	3965.3	4003.8
55°	17937.3	12292.3	4163.5	3921.2	3915.7	3871.6	3811.1	3761.5	3745.0	3756.0	3833.1
57.5°	17827.2	12072.0	4058.9	3728.5	3717.4	3656.9	3596.3	3579.8	3574.3	3585.3	3607.3
60°	14473.2	8916.4	3623.8	3508.2	3491.6	3480.6	3420.0	3354.0	3320.9	3354.0	3326.4
62.5°	9577.2	5969.9	3194.2	3243.8	3254.8	3227.3	3128.2	3062.1	3073.1	3111.6	3051.1
65°	4703.3	3508.2	2896.9	3029.0	3040.0	2962.9	2869.3	2792.2	2753.7	2786.7	2759.2
67.5°	2687.6	2682.1	2654.5	2792.2	2786.7	2709.6	2560.9	2494.8	2428.7	2439.7	2423.2
70°	2280.0	2324.1	2379.2	2461.8	2456.3	2368.1	2191.9	2142.3	2048.7	2037.7	2010.2
72.5°	1795.4	1872.5	1993.7	2054.2	2004.7	1894.5	1778.9	1696.3	1613.6	1564.1	1580.6
75°	1332.8	1442.9	1509.0	1547.6	1470.5	1409.9	1316.2	1217.1	1118.0	1073.9	1057.4
77.5°	969.3	1002.3	1062.9	1090.4	1040.9	980.3	925.2	826.1	732.5	671.9	655.4
80°	677.4	699.4	743.5	743.5	743.5	716.0	644.4	545.2	484.6	429.6	418.6
82.5°	473.6	495.7	539.7	517.7	512.2	479.1	435.1	358.0	291.9	253.3	242.3
85°	165.2	181.7	220.3	264.4	280.9	275.4	247.8	198.3	154.2	126.7	115.7
87.5°	38.6	38.6	44.1	38.6	38.6	44.1	38.6	38.6	38.6	27.5	22.0
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)