

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: P651147

Luminaire Tested: **GALN-SA9C-840-U-T3-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P651147
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-16)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA9C-840-U-T3-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 45699.1 lumens
Efficiency: N/A
Efficacy: 95.0 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

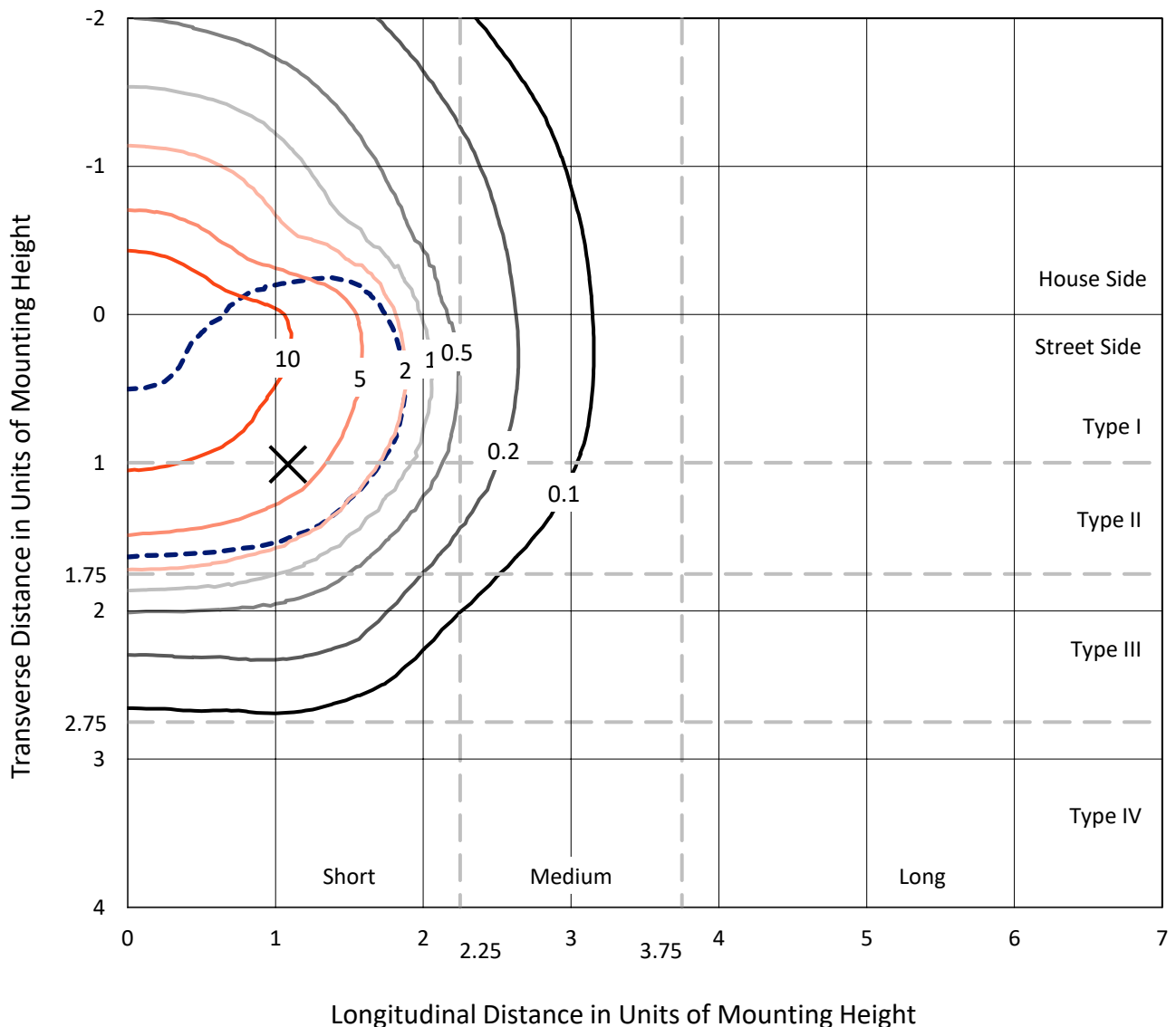
Input Watts (W): 481
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

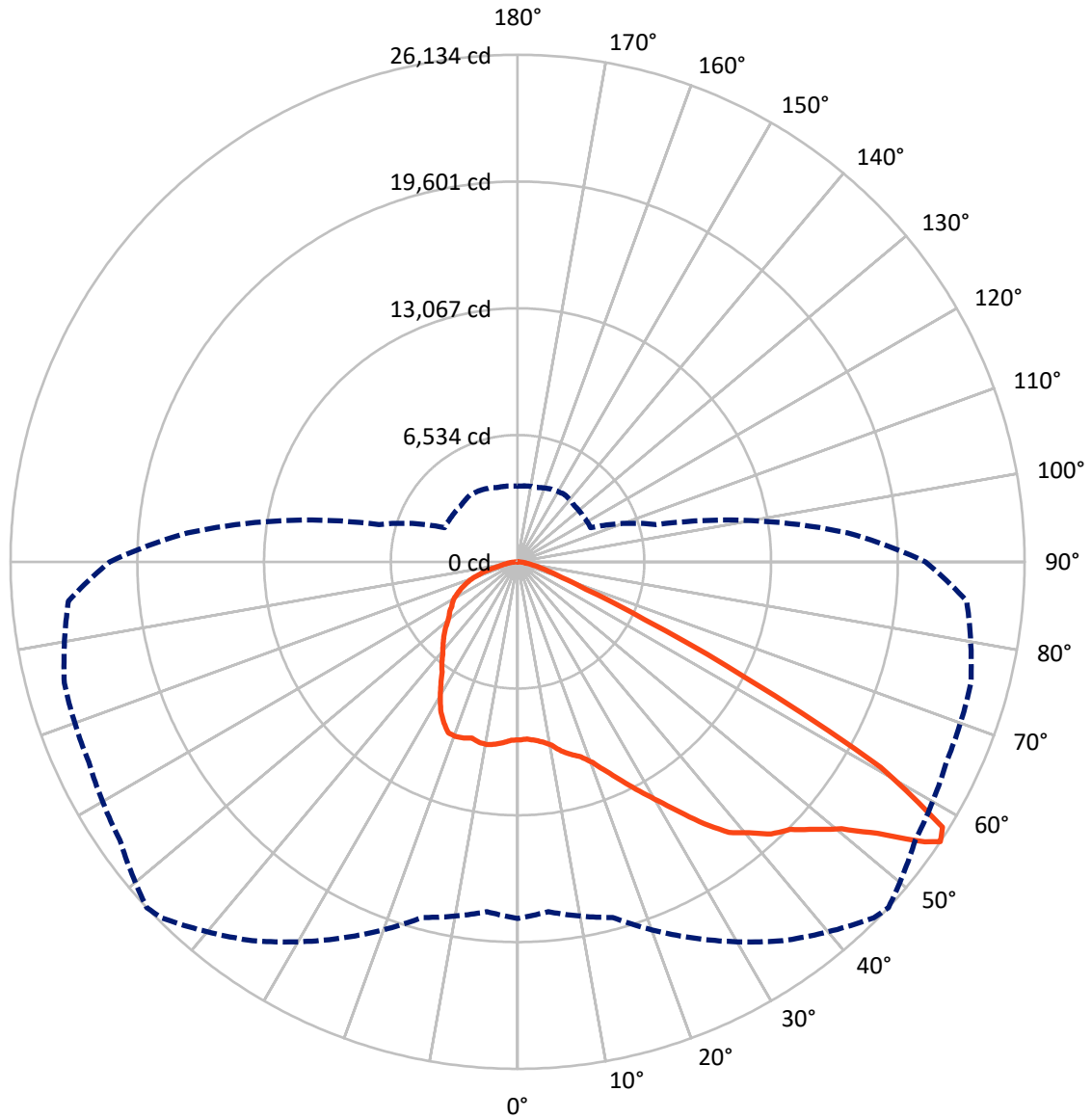
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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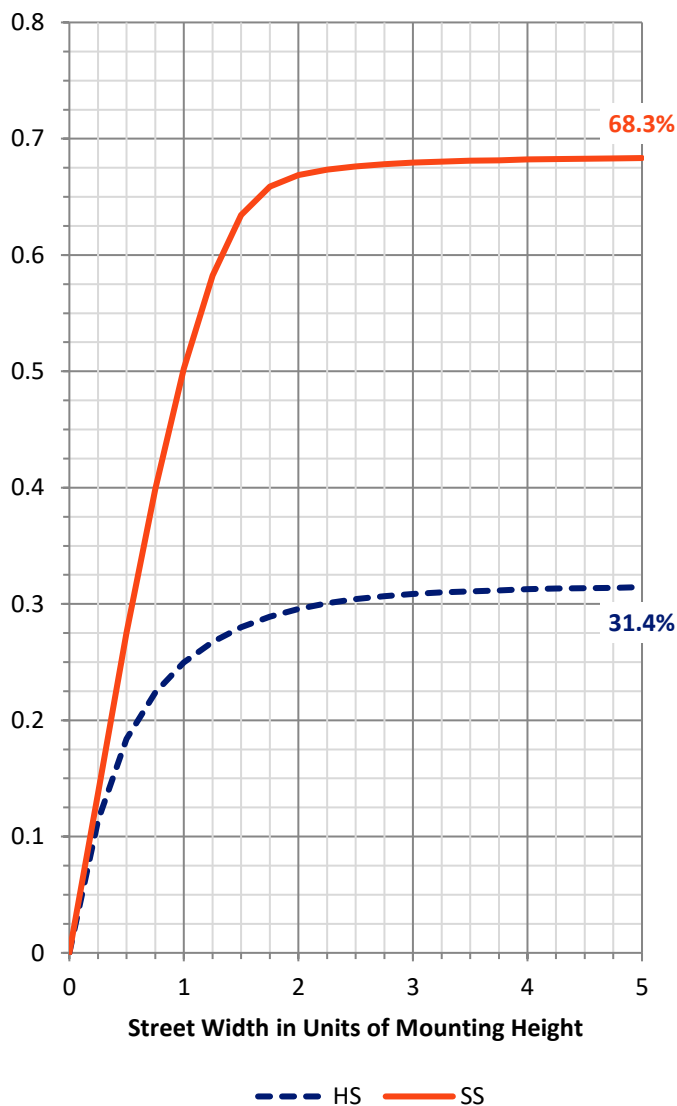
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	14481.5	0.0	14481.5
	% Fixture	31.7	0.0	31.7
Street Side	Lumens	31217.6	0.0	31217.6
	% Fixture	68.3	0.0	68.3
Total	Lumens	45699.1	0.0	45699.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	894.4	2.0
10°-20°	2821.5	6.2
20°-30°	4987.7	10.9
30°-40°	7491.3	16.4
40°-50°	10281.1	22.5
50°-60°	12248.5	26.8
60°-70°	5241.6	11.5
70°-80°	1483.4	3.2
80°-90°	249.6	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°	45699.1	100.0
0°-180°	45699.1	100.0

Coefficient of Utilization



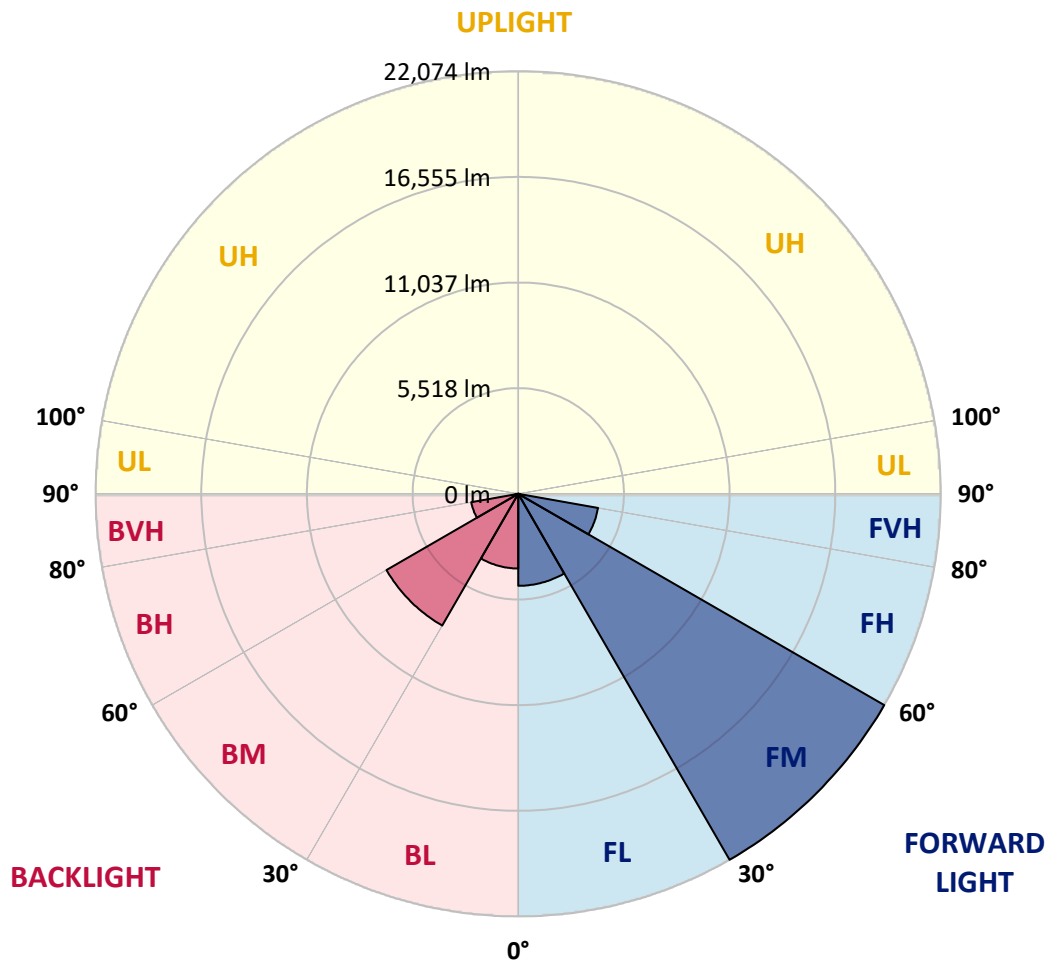
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4804.5	10.5			
FM (30°-60°)	22073.7	48.3			
FH (60°-80°)	4233.4	9.3			G2/5000
FVH (80°-90°)	106.0	0.2			G2/225
BL (0°-30°)	3899.0	8.5	B4/5000		
BM (30°-60°)	7947.2	17.4	B4/8500		
BH (60°-80°)	2491.6	5.5	B3/2500		G3/2500
BVH (80°-90°)	143.7	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°	47°	55°	65°	75°	85°
0°	9179.6	9179.6	9179.6	9179.6	9179.6	9179.6	9179.6	9179.6	9179.6	9179.6	9179.6
2.5°	9144.6	9127.1	9115.4	9208.7	9173.7	9179.6	9144.6	9179.6	9202.9	9150.4	9226.2
5°	9127.1	9179.6	9132.9	9162.1	9237.9	9214.5	9237.9	9307.8	9290.3	9272.8	9249.5
7.5°	9290.3	9296.2	9331.1	9342.8	9366.0	9342.8	9377.7	9441.8	9424.3	9325.3	9337.0
10°	9523.4	9535.1	9540.9	9605.1	9645.8	9651.7	9610.9	9552.6	9546.8	9680.8	9587.6
12.5°	9791.5	9762.4	9832.3	9855.7	9902.3	9954.7	10007.1	9884.8	9960.6	9966.4	9855.7
15°	10182.0	10211.2	10129.6	10129.6	10147.1	10152.9	10298.6	10240.3	10228.7	10164.6	10211.2
17.5°	10764.9	10566.7	10560.9	10479.3	10467.6	10514.3	10566.7	10613.3	10770.7	10642.4	10391.8
20°	11190.3	11236.9	11067.9	10968.8	10986.3	11091.3	11038.8	11248.6	11359.3	11149.6	10904.7
22.5°	11942.2	11784.8	11825.6	11604.1	11621.6	11732.4	11726.5	11942.2	12006.3	11674.1	11318.5
25°	12449.2	12408.5	12443.4	12268.6	12291.9	12379.3	12519.2	12874.7	12769.8	12402.6	11580.8
27.5°	13189.4	13107.8	13078.7	13014.6	12991.3	13224.4	13387.6	13766.4	13690.6	13154.4	12047.1
30°	13947.1	13894.7	13923.8	13661.5	13754.8	14250.2	14296.8	14815.6	14780.6	13836.4	12565.8
32.5°	14471.7	14500.8	14553.3	14407.5	14821.4	15217.6	15375.0	15963.7	15992.8	15007.8	13568.3
35°	15316.7	15217.6	15246.8	15415.9	15608.2	16330.9	16587.3	16977.9	17222.6	16237.6	14530.0
37.5°	15847.1	15952.0	15829.6	16097.7	16599.0	17467.4	17700.5	18102.7	18359.1	17449.9	15841.3
40°	16674.8	16505.7	16593.2	16785.5	17298.4	18429.1	18364.9	18778.8	18860.4	18481.5	17065.2
42.5°	17566.5	17484.9	17362.4	17799.6	18230.9	19052.7	19180.9	18988.6	19402.4	19489.8	18813.8
45°	18633.0	18732.1	18749.6	18761.3	19140.2	19857.0	19682.2	19513.1	19991.1	20626.4	19897.8
47.5°	19623.9	19309.1	19536.4	19851.1	20387.4	20393.2	20597.2	20195.0	20702.1	21267.5	20877.0
50°	19956.1	19804.5	20107.6	20702.1	21529.7	21617.1	21640.4	21069.2	21331.5	21780.3	21215.0
52.5°	19827.8	19775.4	20550.6	21471.4	22683.7	23126.7	23243.2	22538.0	22683.7	22479.8	21961.0
55°	19215.8	19373.3	20154.2	22030.9	23890.2	25259.9	25481.3	24589.6	23662.9	23820.2	23249.0
56°	18376.6	18102.7	18976.9	21395.6	23837.7	25953.3	26134.1	25020.8	24391.4	24187.4	23237.4
57.5°	15590.7	15235.1	16383.4	19250.8	22514.7	25691.1	25825.2	25201.6	24269.0	23855.2	21541.4
60°	9127.1	9302.0	10759.0	13276.9	17368.3	21063.4	21512.2	21966.8	21343.2	19489.8	16033.7
62.5°	4406.2	4295.5	5338.8	7611.7	10584.2	13445.9	13311.9	14588.2	15287.6	13848.0	10123.7
65°	2308.0	2296.4	2914.1	4155.5	5816.6	7063.9	7186.3	7874.0	8835.7	7133.9	5140.5
67.5°	1696.0	1742.6	2051.5	2920.0	3741.8	3817.6	3800.1	4143.9	4237.2	3584.4	3159.0
70°	1328.9	1352.2	1579.5	2220.6	2785.9	2494.5	2442.1	2482.9	2756.8	2873.4	2733.5
72.5°	961.7	985.0	1177.3	1497.9	1742.6	1701.8	1736.8	1964.2	2302.2	2424.6	2278.9
75°	641.1	658.6	763.5	915.0	1031.6	1113.2	1177.3	1439.6	1754.3	1824.3	1754.3
77.5°	443.0	460.4	530.3	647.0	658.6	711.1	734.4	856.7	1049.1	1136.5	1089.9
80°	250.6	250.6	285.6	332.2	408.0	477.9	489.5	588.6	676.1	734.4	746.1
82.5°	116.6	122.4	151.5	204.0	268.1	332.2	343.9	408.0	472.1	530.3	547.8
85°	58.3	64.1	87.5	122.4	163.2	198.1	192.3	198.1	209.8	198.1	204.0
87.5°	17.5	17.5	23.3	29.2	23.3	29.2	29.2	35.0	40.8	46.6	52.5
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°	9179.6	9179.6	9179.6	9179.6	9179.6	9179.6	9179.6	9179.6	9179.6	9179.6	9179.6
2.5°	9232.0	9249.5	9132.9	9243.7	9202.9	9197.0	9278.7	9267.0	9296.2	9284.5	9214.5
5°	9237.9	9197.0	9319.5	9208.7	9261.2	9371.9	9296.2	9471.0	9383.5	9441.8	9313.6
7.5°	9418.5	9430.2	9406.8	9453.5	9430.2	9482.6	9441.8	9482.6	9412.7	9418.5	9535.1
10°	9575.9	9540.9	9581.7	9523.4	9564.2	9546.8	9453.5	9424.3	9447.6	9418.5	9494.3
12.5°	9867.3	9803.2	9774.0	9704.1	9657.5	9482.6	9337.0	9255.3	9366.0	9383.5	9348.6
15°	10164.6	10170.4	10036.3	9879.0	9587.6	9325.3	9360.2	9389.3	9389.3	9436.0	9348.6
17.5°	10351.0	10351.0	10228.7	9914.0	9616.7	9465.1	9430.2	9337.0	9255.3	9243.7	9237.9
20°	10677.4	10578.4	10298.6	9908.1	9605.1	9535.1	9272.8	9051.3	8882.3	8824.0	8818.2
22.5°	11050.4	10799.8	10409.3	9919.8	9587.6	9488.5	8998.9	8666.7	8363.6	8235.4	8252.9
25°	11394.3	10992.1	10473.5	9867.3	9523.4	9045.5	8497.6	8037.2	7722.5	7617.6	7565.1
27.5°	11633.3	11196.1	10473.5	9914.0	9284.5	8550.1	7990.6	7401.9	7128.0	7058.1	7069.7
30°	11953.8	11452.6	10654.1	9814.8	8806.5	7909.0	7238.7	6854.1	6690.9	6632.6	6673.4
32.5°	12705.7	12122.8	10904.7	9575.9	8241.2	7267.9	6725.8	6510.2	6271.3	6154.7	6113.9
35°	13521.6	12758.1	11149.6	9173.7	7605.9	6685.0	6347.0	6148.9	5863.3	5735.0	5758.3
37.5°	14675.6	13574.1	11167.1	8509.3	6918.2	6358.6	6049.7	5740.8	5507.7	5309.6	5251.3
40°	16231.8	14687.3	11126.2	7809.9	6364.5	5974.0	5746.7	5362.0	5099.7	4959.9	4989.0
42.5°	17601.5	15992.8	10957.2	7017.3	5863.3	5711.7	5455.3	5076.4	4820.0	4674.3	4662.7
45°	18755.5	16954.5	10636.6	6341.2	5443.6	5420.3	5123.0	4831.6	4627.7	4493.6	4551.9
47.5°	19822.0	17729.6	10152.9	5665.1	5059.0	5105.5	4820.0	4639.3	4511.1	4388.7	4382.9
50°	20206.7	17718.0	9727.4	5105.5	4750.1	4726.8	4715.1	4522.7	4388.7	4283.8	4330.4
52.5°	20847.8	17916.2	9267.0	4721.0	4470.3	4476.1	4516.9	4377.1	4225.5	4161.4	4219.7
55°	21768.7	17945.3	8252.9	4272.1	4237.2	4278.0	4278.0	4184.7	4056.5	4004.0	3974.9
56°	21016.8	17076.9	7401.9	4155.5	4120.6	4120.6	4231.3	4126.5	3969.1	3928.3	3893.3
57.5°	19384.9	14961.2	6195.5	4015.7	3963.2	4044.9	4103.2	3992.4	3846.6	3788.4	3823.4
60°	13370.1	10123.7	4656.8	3712.6	3712.6	3846.6	3893.3	3730.1	3666.0	3660.2	3613.5
62.5°	7804.1	5898.3	3642.7	3438.7	3450.4	3561.0	3596.0	3502.8	3421.2	3520.3	3566.9
65°	4138.1	3520.3	3124.0	3147.3	3153.1	3240.5	3392.1	3386.2	3380.4	3409.6	3415.4
67.5°	2995.7	2925.8	2838.4	2815.1	2826.7	2890.9	3042.4	3159.0	3153.1	3083.2	3030.7
70°	2669.3	2570.3	2517.8	2523.7	2477.0	2552.8	2675.2	2751.0	2616.9	2535.3	2500.4
72.5°	2220.6	2191.5	2156.5	2162.3	2069.0	2051.5	1911.7	1911.7	1876.7	1853.4	1894.2
75°	1696.0	1684.4	1701.8	1672.7	1573.7	1468.7	1387.1	1311.4	1194.8	1148.1	1124.8
77.5°	1072.4	1107.3	1148.1	1084.0	1043.3	967.5	885.9	810.1	716.9	664.4	664.4
80°	728.6	757.7	786.8	775.1	728.6	658.6	594.5	512.9	448.8	408.0	402.2
82.5°	553.7	577.0	617.8	571.2	524.5	466.3	413.8	355.5	297.2	250.6	250.6
85°	198.1	227.3	250.6	273.9	291.4	297.2	256.4	209.8	169.0	134.1	128.3
87.5°	52.5	58.3	64.1	58.3	58.3	58.3	64.1	58.3	52.5	40.8	40.8
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)