

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: P647182

Luminaire Tested: **GALN-SA9C-835-U-T2R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P647182
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-10)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA9C-835-U-T2R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 43853.5 lumens
Efficiency: N/A
Efficacy: 91.2 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

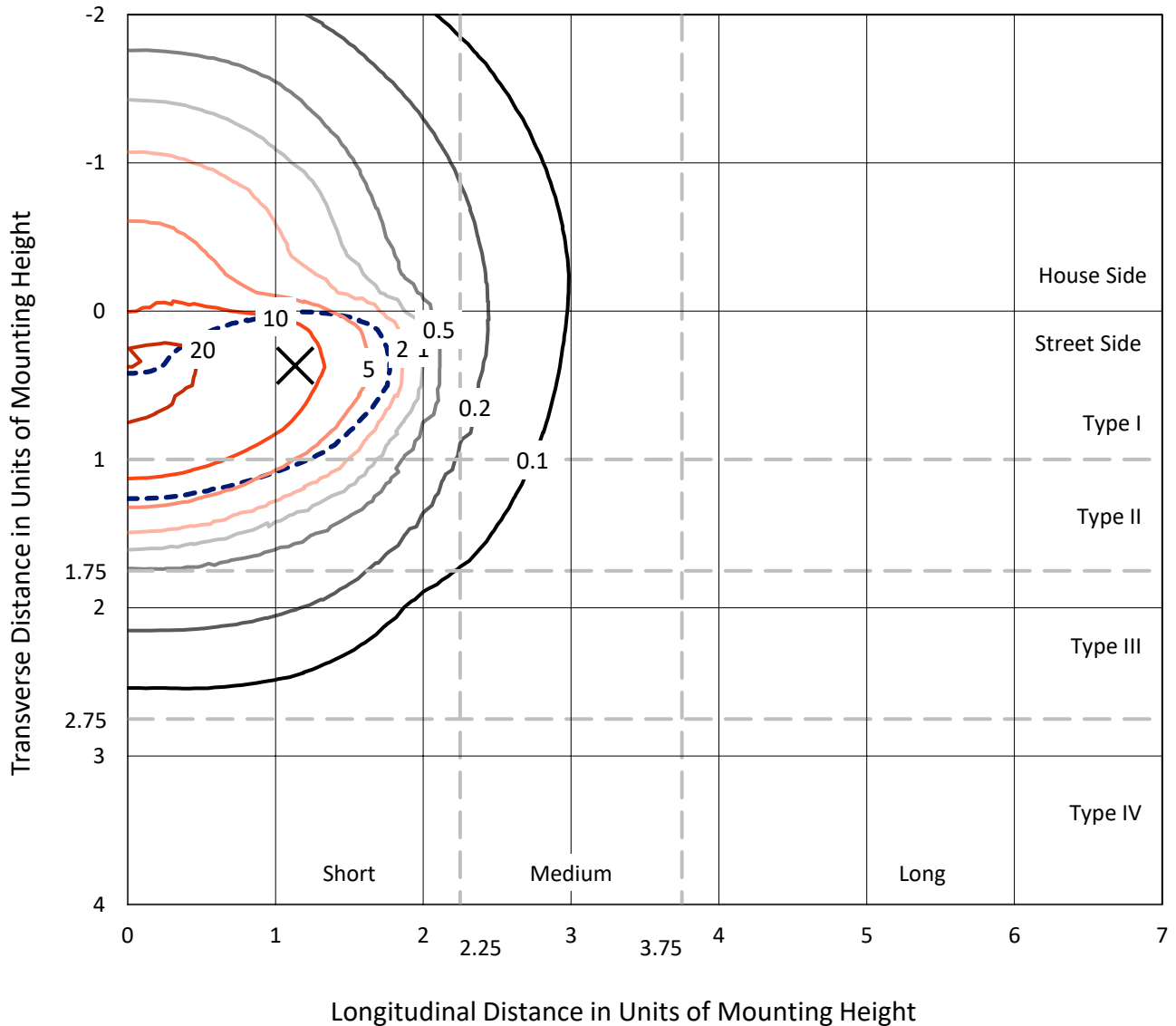
Input Watts (W): 481
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

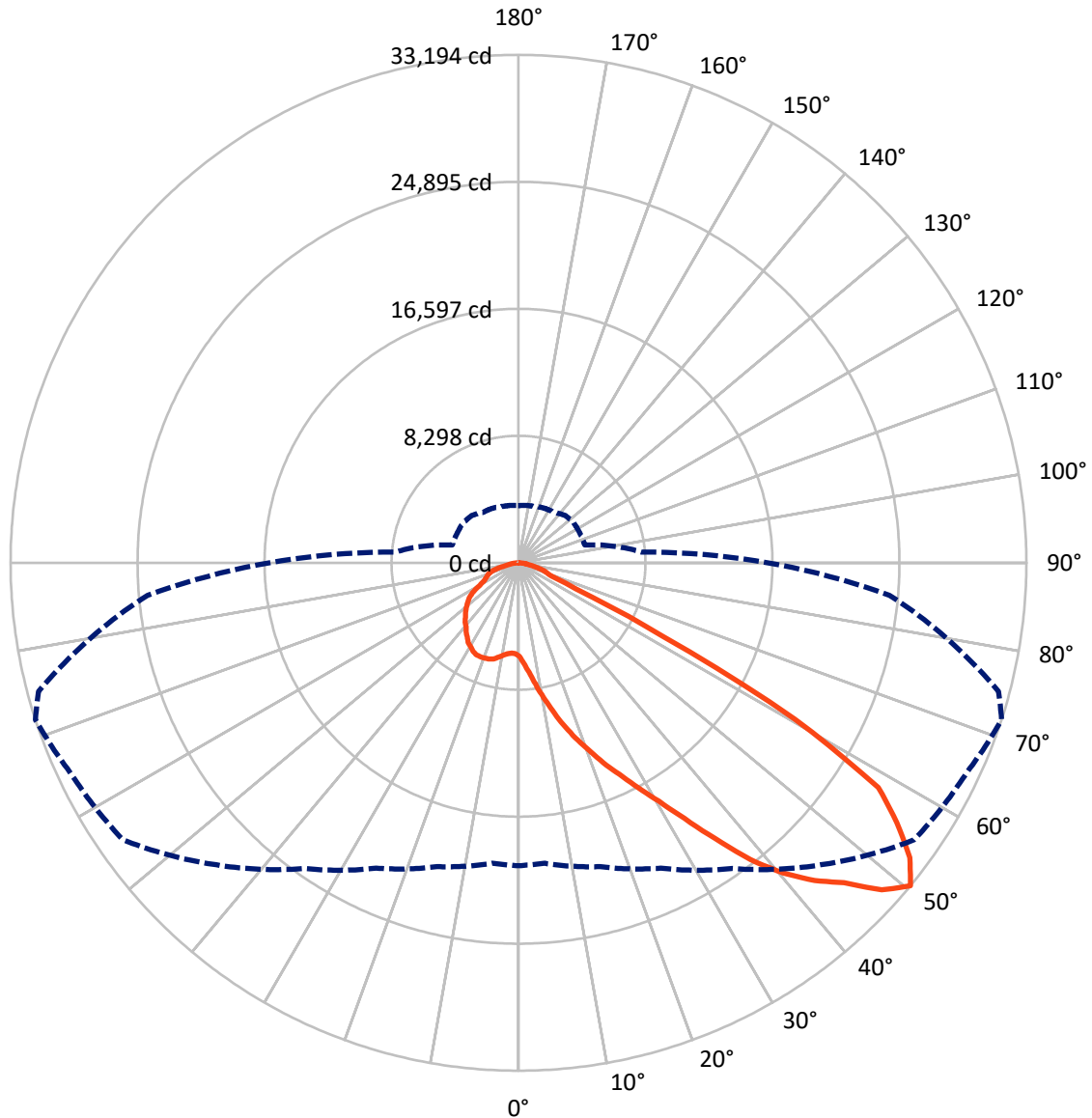
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 21.8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 72-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10047.1	0.0	10047.1
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	33806.4	0.0	33806.4
	% Fixture	77.1	0.0	77.1
Total	Lumens	43853.5	0.0	43853.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	718.1	1.6
10°-20°	2684.4	6.1
20°-30°	5204.9	11.9
30°-40°	8622.7	19.7
40°-50°	12065.0	27.5
50°-60°	10178.4	23.2
60°-70°	3102.4	7.1
70°-80°	1088.4	2.5
80°-90°	189.2	0.4
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°	43853.5	100.0
0°-180°	43853.5	100.0

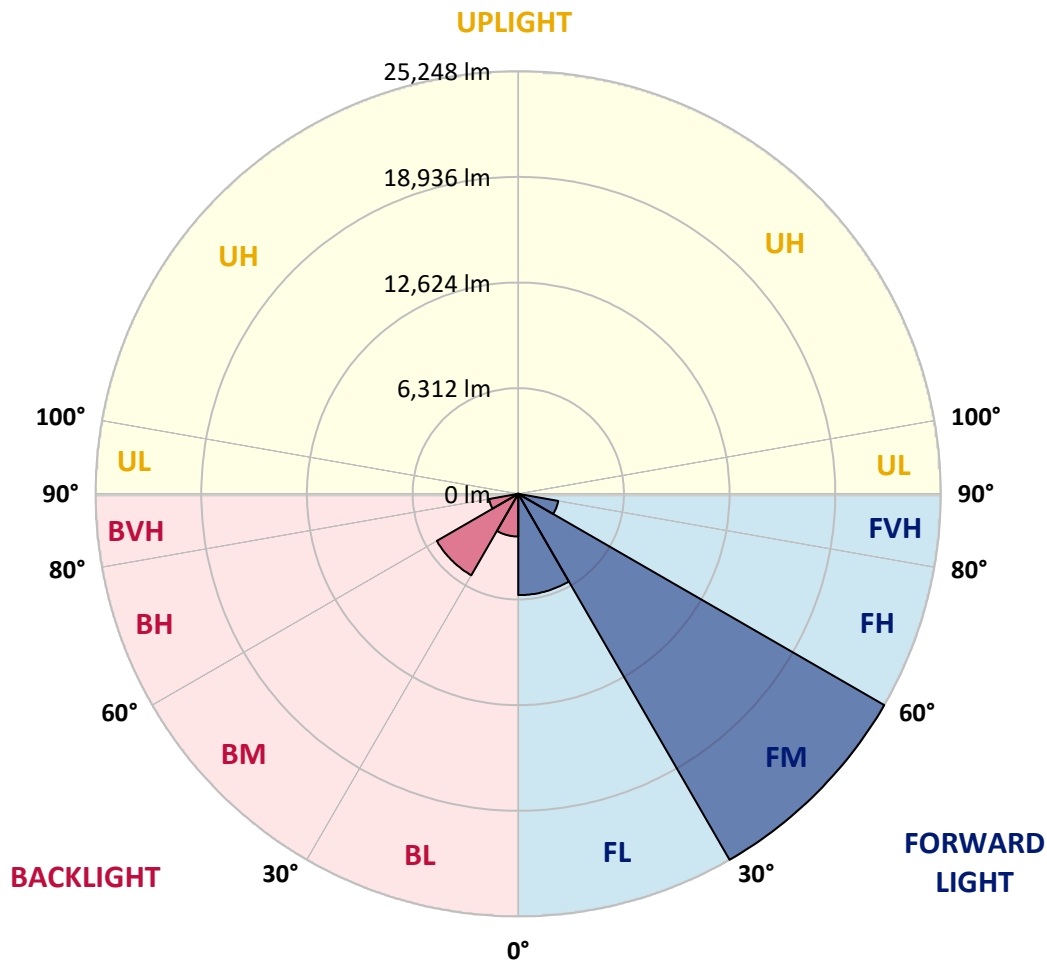


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	6053.4	13.8			
FM (30°-60°)	25247.6	57.6			
FH (60°-80°)	2420.6	5.5			G2/5000
FVH (80°-90°)	84.8	0.2			G1/100
BL (0°-30°)	2554.0	5.8	B4/5000		
BM (30°-60°)	5618.5	12.8	B4/8500		
BH (60°-80°)	1770.1	4.0	B3/2500		G3/2500
BVH (80°-90°)	104.5	0.2			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°	55°	65°	72°	75°	85°
0°	6104.8	6104.8	6104.8	6104.8	6104.8	6104.8	6104.8	6104.8	6104.8	6104.8	6104.8
2.5°	7852.1	7803.3	7656.7	7607.9	7434.3	7119.5	7011.0	6690.8	6555.2	6430.4	6283.9
5°	9930.5	9702.5	9686.3	9409.5	9007.9	8774.6	8080.0	7613.3	7184.7	6967.6	6566.0
7.5°	11254.5	11259.9	11259.9	11032.0	10711.8	10120.4	9496.3	8655.2	8009.5	7689.3	7005.6
10°	12513.4	12404.9	12345.2	12323.5	12106.4	11531.2	10863.8	9821.9	8937.4	8563.0	7336.6
12.5°	13403.4	13311.2	13446.8	13376.2	13218.9	12844.5	12215.0	11026.6	9919.6	9414.9	7868.4
15°	13826.7	13891.8	14000.3	14195.6	14125.1	13984.0	13289.4	12263.8	10977.7	10407.9	8340.5
17.5°	14477.8	14298.8	14429.0	14673.2	14868.5	14803.4	14407.3	13159.2	12025.1	11325.1	8975.4
20°	14933.6	14830.6	14895.6	15177.8	15324.3	15693.4	15487.1	14331.3	13029.0	12291.0	9724.2
22.5°	16236.0	16084.1	15872.4	15915.8	15970.1	16230.6	16279.4	15617.4	14195.6	13414.2	10435.1
25°	17842.2	17701.1	17451.5	17196.5	17039.1	16990.2	17158.5	16626.7	15313.5	14504.9	11200.3
27.5°	19611.3	19372.5	19215.1	18688.8	18265.5	18200.4	18119.0	17831.4	16637.6	15763.9	12063.1
30°	21331.4	21141.5	20929.9	20088.8	19649.2	19578.7	19177.2	19258.5	18075.6	17104.2	13039.8
32.5°	22633.8	22650.1	22167.1	21532.3	21119.9	20745.4	20598.9	20832.2	19920.5	19139.2	14130.6
35°	23686.5	23735.4	23274.1	22698.9	22254.0	22514.5	22449.3	22557.8	22123.7	21168.6	15400.4
37.5°	24712.1	24468.0	23974.1	23697.4	23464.1	23892.8	24446.3	24538.5	24619.9	23496.6	16876.3
40°	24880.4	24902.1	24614.5	24809.8	24516.8	25162.6	26448.6	26329.2	26660.2	25678.1	18477.2
42.5°	24641.6	24690.4	24804.4	25081.1	25786.6	26562.6	28472.7	27984.3	28385.9	27512.2	20034.5
45°	24250.9	24050.1	24191.2	25243.9	26464.9	28190.5	30323.1	29943.3	29813.0	29080.5	21890.4
47.5°	22384.2	22590.4	23029.9	24326.9	26161.0	28472.7	31636.3	31549.5	31940.2	31424.7	23578.0
50°	19795.7	19714.4	20560.9	22020.6	24386.5	27919.2	31565.8	32352.6	33193.7	32477.4	24332.3
52.5°	14825.1	15259.3	15986.4	17798.8	21174.1	24902.1	30024.7	31337.9	32021.6	31869.7	23724.5
55°	9371.5	9501.8	9941.3	12095.6	15134.5	19985.7	25737.8	28782.0	30002.9	30572.7	23165.6
57.5°	4552.8	4308.6	4845.8	6576.9	8742.0	13441.4	19850.0	25070.3	27723.8	28754.9	21950.1
60°	2376.8	2469.0	2680.7	3299.3	4520.3	6978.4	12372.3	16708.1	20761.6	22346.2	16637.6
62.5°	1969.8	2002.4	2143.5	2452.7	3006.3	4015.6	6316.4	8145.2	10587.0	12014.2	9463.7
65°	1671.4	1687.6	1839.6	2045.7	2398.5	2827.2	3250.5	3402.4	4118.7	4227.2	3364.4
67.5°	1394.6	1410.9	1573.7	1769.0	1997.0	2110.9	2219.4	2208.6	2290.0	2257.4	2252.0
70°	1074.4	1090.7	1258.9	1465.1	1579.1	1514.0	1850.5	1926.4	1959.0	1986.1	2029.5
72.5°	776.0	808.5	938.8	1085.3	1025.6	1177.6	1524.8	1638.8	1682.2	1698.5	1752.7
75°	564.4	575.2	607.8	564.4	651.1	819.4	1074.4	1215.5	1269.8	1286.1	1367.5
77.5°	249.6	255.0	260.5	325.6	417.8	510.1	640.3	754.3	830.2	852.0	873.7
80°	130.2	135.7	168.2	222.5	298.5	374.4	466.7	531.8	580.6	586.1	607.8
82.5°	81.4	86.8	119.4	157.4	211.6	276.7	341.9	396.1	434.1	439.6	445.0
85°	38.0	48.9	70.5	97.6	141.1	179.1	184.5	157.4	168.2	173.7	162.8
87.5°	10.9	16.3	21.7	16.3	21.7	21.7	27.2	32.6	32.6	32.6	38.0
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°	6104.8	6104.8	6104.8	6104.8	6104.8	6104.8	6104.8	6104.8	6104.8	6104.8	6104.8
2.5°	6202.5	6153.6	5963.7	5893.2	5708.6	5741.2	5643.6	5638.1	5616.4	5611.0	5605.6
5°	6354.4	6202.5	5974.5	5800.9	5697.8	5686.9	5616.4	5616.4	5638.1	5654.4	5616.4
7.5°	6604.0	6430.4	6045.1	5882.3	5790.1	5773.8	5724.9	5686.9	5735.8	5719.5	5676.1
10°	6891.7	6587.8	6180.8	6039.7	5887.7	5849.7	5849.7	5866.0	5784.6	5811.7	5768.4
12.5°	7211.7	6804.8	6354.4	6191.6	6012.5	5990.8	5980.0	5860.6	5904.0	5882.3	5773.8
15°	7618.7	7054.4	6576.9	6300.1	6148.2	6050.5	5909.5	5887.7	5860.6	5806.3	5757.5
17.5°	8058.3	7325.7	6680.0	6332.7	6104.8	6034.3	5925.7	5811.7	5730.4	5741.2	5703.2
20°	8432.8	7575.4	6718.0	6365.2	6072.2	5936.5	5768.4	5697.8	5611.0	5605.6	5600.1
22.5°	8877.7	7911.8	6772.2	6278.4	5974.5	5833.4	5719.5	5594.7	5535.0	5459.0	5497.1
25°	9409.5	8042.0	6783.1	6229.6	5904.0	5654.4	5594.7	5459.0	5437.3	5328.8	5350.5
27.5°	9794.8	8112.6	6696.3	6077.6	5741.2	5551.3	5442.7	5345.1	5307.1	5225.7	5204.0
30°	10310.3	8221.1	6511.7	5887.7	5578.4	5366.8	5301.7	5279.9	5171.4	5084.6	5073.8
32.5°	10896.4	8291.7	6392.4	5692.3	5410.2	5247.4	5279.9	5176.9	5041.2	4965.2	4943.5
35°	11363.1	8318.7	6093.9	5469.9	5296.2	5193.2	5155.1	5133.4	4938.1	4867.5	4813.3
37.5°	12073.9	8259.1	5844.3	5312.5	5171.4	5133.4	5100.9	4954.4	4731.9	4628.8	4552.8
40°	12904.2	8242.8	5524.1	5090.0	5052.1	5095.5	4997.8	4769.9	4460.6	4346.6	4292.3
42.5°	13701.9	8356.8	5323.4	4970.6	4921.8	4938.1	4802.5	4460.6	4308.6	4243.5	4156.7
45°	15036.7	8595.5	4992.3	4786.2	4764.5	4753.6	4590.8	4232.7	4145.8	4064.4	4048.1
47.5°	16241.5	8438.2	4780.7	4596.2	4617.9	4558.2	4211.0	4097.0	3999.3	3917.9	3890.8
50°	16312.0	8063.7	4482.3	4449.7	4455.1	4352.0	4021.0	3945.1	3820.3	3766.0	3728.0
52.5°	15943.0	7450.6	4205.5	4216.4	4232.7	4064.4	3787.7	3733.4	3630.3	3554.4	3532.7
55°	14906.5	6495.5	3934.2	3977.6	4021.0	3700.8	3614.0	3478.4	3397.0	3288.4	3293.8
57.5°	13132.1	5231.1	3554.4	3624.9	3717.1	3364.4	3299.3	3131.1	3011.7	2924.9	2914.0
60°	8801.7	3722.5	2984.6	3011.7	3217.9	3076.8	3071.4	2903.1	2740.3	2664.4	2621.0
62.5°	5193.2	2843.5	2577.6	2550.5	2545.0	2626.4	2762.1	2702.4	2490.7	2344.2	2387.7
65°	2718.7	2458.2	2398.5	2306.2	2252.0	2230.3	2333.4	2360.5	2219.4	2062.0	2051.2
67.5°	2284.6	2284.6	2235.7	2203.1	2127.2	2034.9	1969.8	1883.0	1861.3	1817.9	1763.6
70°	2078.3	2132.6	2116.3	2040.3	1975.3	1872.2	1703.9	1562.8	1427.2	1378.3	1410.9
72.5°	1812.4	1866.7	1866.7	1828.7	1741.9	1584.6	1421.8	1258.9	1145.0	1058.1	1047.3
75°	1394.6	1421.8	1486.8	1443.5	1329.5	1231.8	1063.6	895.4	786.8	705.4	689.2
77.5°	890.0	933.3	933.3	927.9	846.5	754.3	645.7	526.3	445.0	385.3	369.0
80°	591.5	618.6	640.3	618.6	564.4	493.8	412.4	331.1	271.3	222.5	211.6
82.5°	434.1	466.7	483.0	461.3	407.0	352.7	293.0	233.3	173.7	135.7	124.8
85°	168.2	173.7	195.4	233.3	227.9	222.5	179.1	130.2	97.6	70.5	65.1
87.5°	43.4	38.0	43.4	43.4	38.0	32.6	32.6	32.6	32.6	16.3	21.7
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)