

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: P651115

Luminaire Tested: **GALN-SA9C-840-U-AFL**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P651115
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-24)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA9C-840-U-AFL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 54125.9 lumens
Efficiency: N/A
Efficacy: 112.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G4

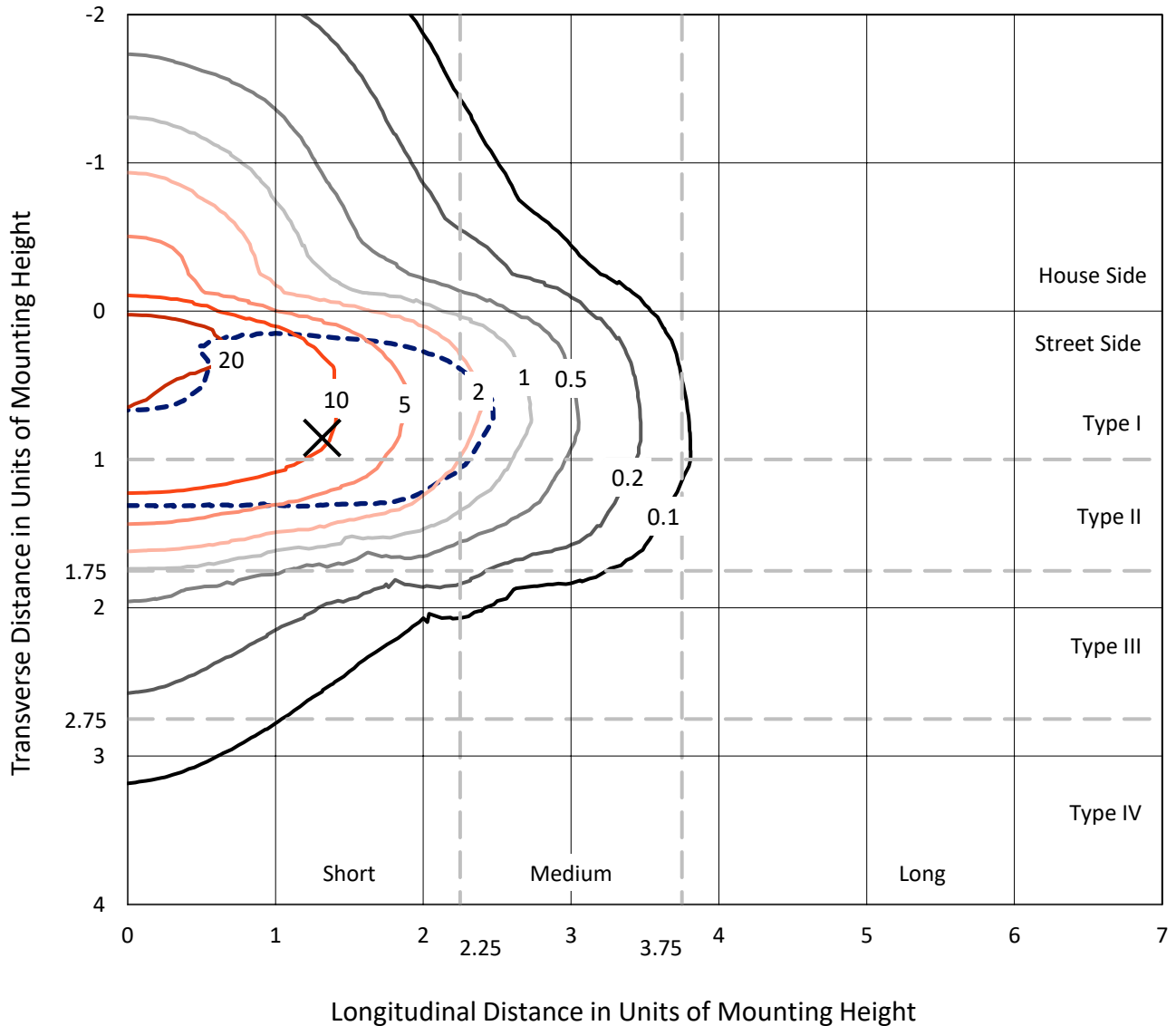
Input Watts (W): 481
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

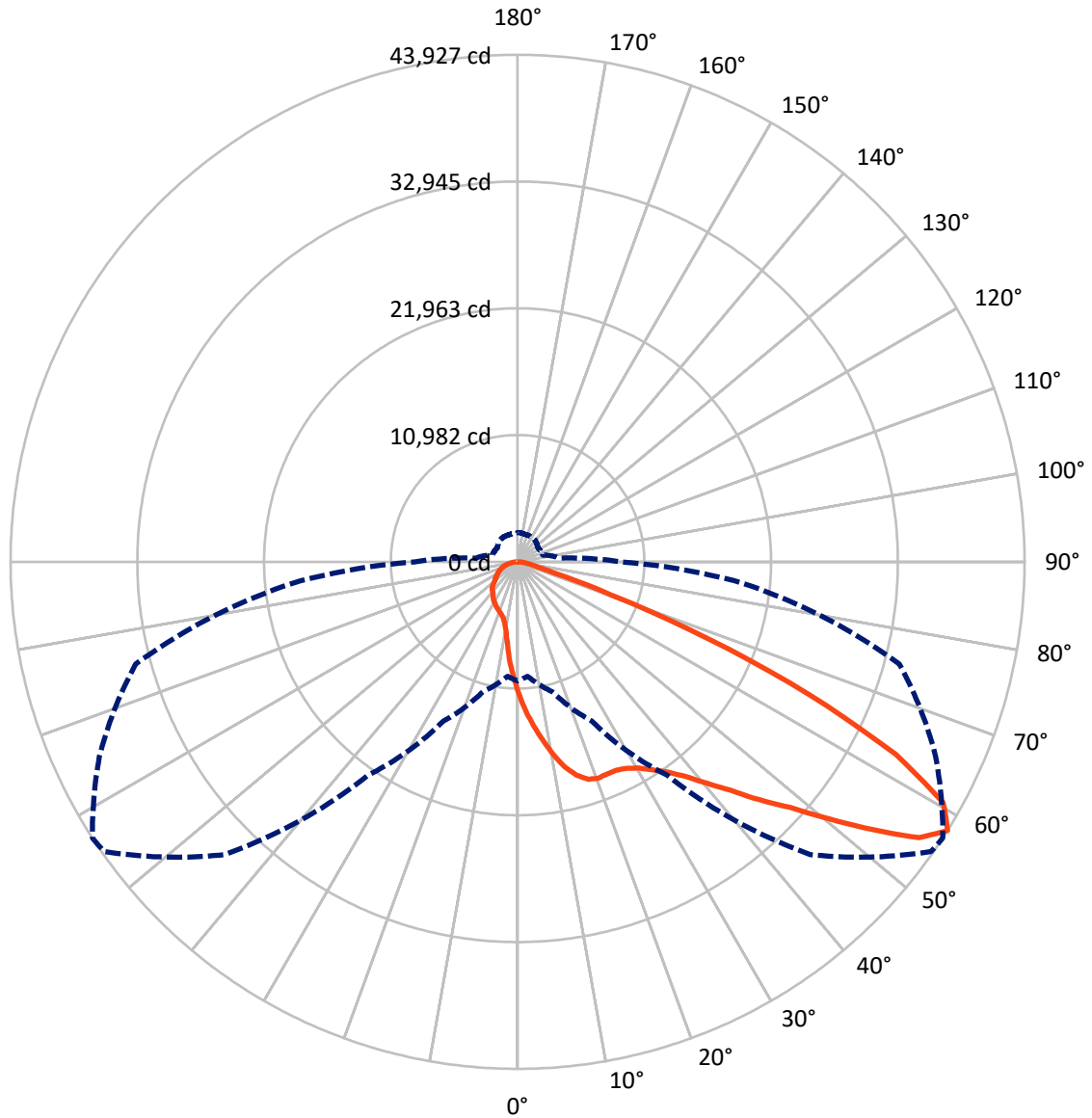
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 27.7 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8231.0	0.0	8231.0
	% Fixture	15.2	0.0	15.2
Street Side	Lumens	45894.9	0.0	45894.9
	% Fixture	84.8	0.0	84.8
Total	Lumens	54125.9	0.0	54125.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1092.9	2.0
10°-20°	3220.8	6.0
20°-30°	5348.2	9.9
30°-40°	8055.9	14.9
40°-50°	12095.2	22.3
50°-60°	13557.2	25.0
60°-70°	7934.4	14.7
70°-80°	2346.9	4.3
80°-90°	474.4	0.9
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°	54125.9	100.0
0°-180°	54125.9	100.0

Coefficient of Utilization

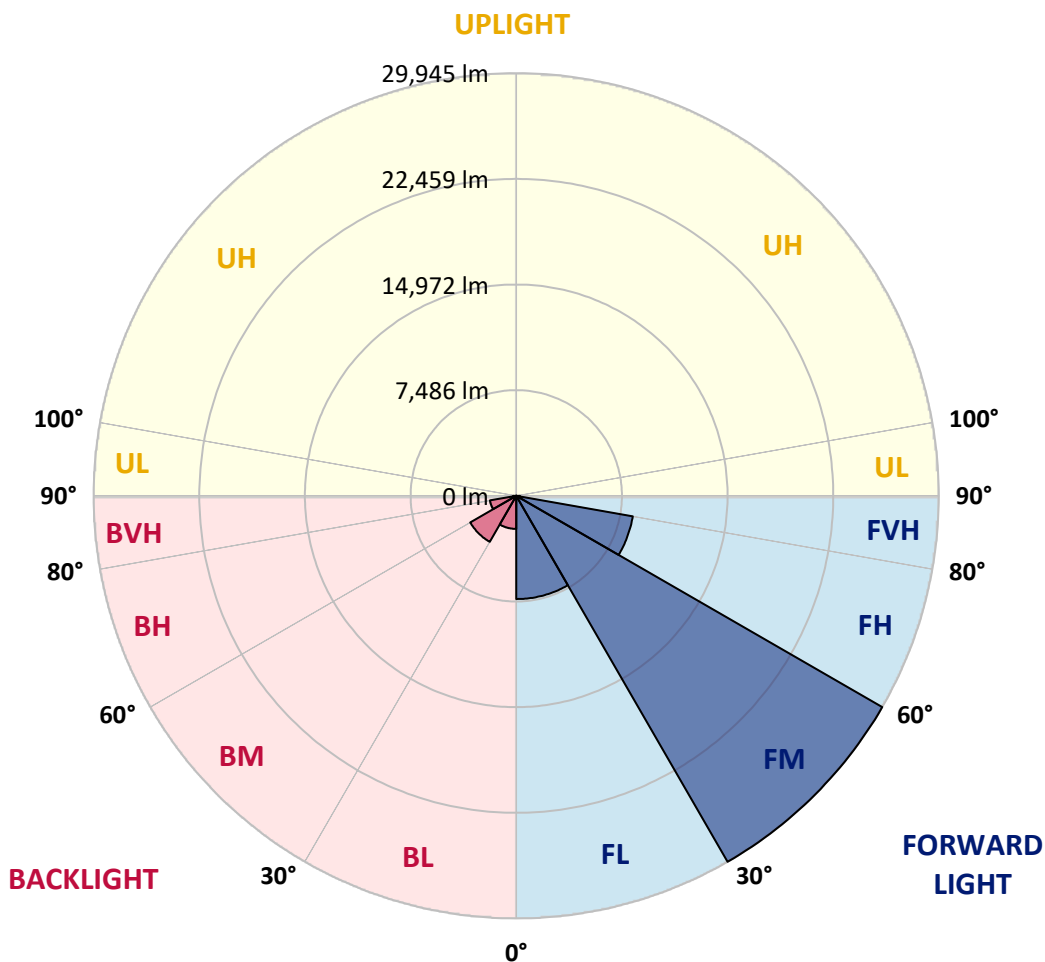


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	7316.6	13.5			
FM (30°-60°)	29944.8	55.3			
FH (60°-80°)	8387.4	15.5			G4/12000
FVH (80°-90°)	246.1	0.5			G3/500
BL (0°-30°)	2345.3	4.3	B3/2500		
BM (30°-60°)	3763.5	7.0	B3/5000		
BH (60°-80°)	1893.9	3.5	B3/2500		G3/2500
BVH (80°-90°)	228.2	0.4			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	11371.2	11371.2	11371.2	11371.2	11371.2	11371.2	11371.2	11371.2	11371.2	11371.2	11371.2
2.5°	14129.6	13975.6	13854.0	13747.4	13608.1	13231.9	12855.6	12849.6	12550.4	12088.2	11614.2
5°	16431.7	16224.3	16251.0	15919.1	15587.3	15042.1	14245.2	14203.6	13566.7	12701.5	11821.6
7.5°	17930.9	17933.8	17850.9	17661.3	17302.7	16683.5	15779.9	15575.5	14689.6	13377.0	12058.6
10°	17853.8	17933.8	18073.1	18236.1	18345.7	18040.5	17216.9	16967.9	15815.4	14194.8	12322.3
12.5°	16828.7	16953.1	17151.7	17560.5	18221.3	18724.9	18443.5	18242.0	17119.1	15009.6	12612.6
15°	16188.7	16262.8	16372.4	16648.0	17359.1	18564.9	19293.8	19187.1	18348.6	15931.0	12938.5
17.5°	15993.2	16067.3	16102.8	16271.8	16778.4	18013.8	19628.6	19818.2	19439.0	16778.4	13267.4
20°	16188.7	16224.3	16224.3	16325.1	16722.0	17690.9	19613.7	19996.0	20333.7	17794.6	13575.6
22.5°	16701.3	16716.1	16695.4	16730.9	17027.2	17779.7	19474.5	19948.5	21056.6	18656.7	13815.5
25°	17533.8	17557.6	17421.3	17338.3	17554.6	18170.9	19551.6	19987.0	21622.5	19480.4	13975.6
27.5°	18479.0	18508.6	18342.7	18150.1	18250.9	18653.8	19853.7	20244.8	22046.2	20292.2	14076.2
30°	19637.4	19649.3	19370.8	19139.7	19074.6	19373.8	20369.3	20733.7	22573.6	21249.2	14227.4
32.5°	20822.6	20911.5	20552.9	20227.1	20117.4	20209.3	21130.7	21483.3	23201.7	22277.3	14470.3
35°	22434.3	22449.1	22019.6	21622.5	21261.1	21379.6	22105.4	22360.3	24069.8	23465.4	14814.0
37.5°	24446.1	24582.3	23989.8	23249.1	22804.7	22632.8	23284.7	23563.1	25287.5	24923.1	15332.5
40°	26680.1	26730.4	26223.7	25761.6	24949.8	24452.0	24902.3	25204.6	26789.6	26662.2	15933.9
42.5°	28084.4	28194.0	28232.5	28185.1	27574.8	26739.3	26911.2	27053.4	28567.3	28294.8	16550.2
45°	28558.4	28721.4	29272.5	30439.8	30505.0	29681.3	29281.3	29417.7	30505.0	29942.1	17139.8
47.5°	27773.4	28051.8	29068.1	31462.0	33254.5	33316.7	32110.9	31811.6	32270.9	31307.9	17566.5
50°	25743.8	25803.1	27358.5	30825.0	34543.3	36792.1	35544.8	34987.7	33947.8	32318.3	17859.8
52.5°	22603.2	22671.3	23975.0	27865.2	33749.2	39221.5	39562.3	38566.8	35651.4	33103.4	18052.3
55°	16778.4	17172.4	18606.4	22366.2	29986.5	38993.5	42756.2	42190.3	37710.5	33725.6	18354.6
57.5°	10316.5	9955.0	11655.7	15217.0	22552.8	35858.8	43742.8	43926.5	39977.1	34247.0	18861.2
60°	4746.4	4817.5	5519.7	7848.5	13747.4	28051.8	41200.8	42362.2	41230.4	34229.3	18988.6
62.5°	3270.9	3205.7	3028.0	3445.7	6269.3	17741.2	34801.1	36768.4	38717.9	33165.6	18482.0
65°	2924.3	2859.1	2515.4	2399.9	2879.8	7732.9	25299.4	27782.2	32599.7	30481.3	17219.8
67.5°	2731.7	2642.8	2287.3	2062.1	2056.2	3078.3	14917.7	17907.2	24179.4	25770.4	14920.7
70°	2530.2	2459.2	2106.5	1857.7	1751.0	1934.7	6556.7	8583.2	15699.9	18570.9	11623.0
72.5°	2328.7	2245.8	1928.7	1662.2	1522.9	1448.8	2512.5	3268.0	8870.6	11134.3	7125.5
75°	2035.5	1993.9	1724.4	1505.1	1354.0	1170.3	1593.9	1819.2	4242.8	5113.8	3576.1
77.5°	1780.6	1736.2	1531.8	1315.5	1205.8	951.1	1131.8	1235.5	1789.6	2074.0	1614.7
80°	1303.6	1348.0	1291.8	1161.4	1075.5	746.6	761.4	847.4	1063.6	1176.2	986.6
82.5°	826.6	909.5	995.5	894.7	814.8	589.6	527.4	559.9	725.9	770.4	438.5
85°	346.7	352.5	577.8	545.1	465.2	349.6	317.1	334.8	388.1	405.9	204.4
87.5°	133.3	130.4	204.4	189.6	145.2	100.8	100.8	112.6	154.1	142.2	65.2
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°	11371.2	11371.2	11371.2	11371.2	11371.2	11371.2	11371.2	11371.2	11371.2	11371.2	11371.2
2.5°	11409.8	11199.4	10781.6	10263.1	9883.9	9457.3	9080.9	8811.4	8710.7	8663.2	8574.3
5°	11400.8	10986.1	10120.9	9214.3	8485.4	7738.9	7107.8	6698.9	6663.3	6390.8	6364.1
7.5°	11403.8	10769.8	9392.1	8058.8	6947.8	6183.4	5661.9	5525.6	5362.6	5321.2	5341.9
10°	11412.7	10494.3	8609.9	6915.2	5839.7	5339.0	5143.4	5090.1	5096.0	5113.8	5116.7
12.5°	11424.6	10227.6	7798.1	6047.0	5217.5	5010.1	4989.4	5036.7	5087.1	5125.6	5134.6
15°	11439.4	9922.5	7007.0	5347.8	4906.4	4888.6	4956.8	5036.7	5107.9	5164.2	5173.1
17.5°	11421.6	9566.9	6343.3	4918.3	4734.6	4820.4	4933.1	5033.8	5099.0	5152.3	5158.3
20°	11380.2	9169.8	5703.4	4616.1	4627.9	4767.1	4888.6	4983.4	5054.6	5081.2	5101.9
22.5°	11220.1	8695.9	5146.4	4381.9	4500.5	4693.1	4838.3	4894.5	4814.6	4758.3	4773.1
25°	10947.5	8079.6	4627.9	4192.4	4385.0	4589.4	4737.5	4601.2	4536.0	4512.4	4524.2
27.5°	10606.9	7404.1	4236.8	3993.8	4236.8	4473.9	4432.3	4408.7	4379.0	4340.5	4349.4
30°	10239.4	6743.3	3905.0	3839.8	4076.8	4213.1	4230.9	4269.4	4236.8	4177.6	4201.2
32.5°	9898.7	6121.1	3653.1	3709.4	3964.2	3943.4	4076.8	4121.2	3970.2	3771.6	3780.5
35°	9608.3	5543.4	3463.5	3582.0	3771.6	3780.5	3913.8	3759.8	3596.9	3502.0	3508.0
37.5°	9389.1	5093.1	3339.1	3472.4	3525.7	3638.3	3567.2	3487.2	3466.5	3401.3	3404.3
40°	9258.7	4699.0	3259.0	3386.5	3377.6	3454.7	3226.5	3306.5	3336.1	3315.4	3318.3
42.5°	9128.4	4420.5	3176.1	3268.0	3265.0	3113.9	3063.5	3131.7	3208.8	3217.6	3211.7
45°	9024.7	4204.2	3090.2	3087.2	3146.5	2909.4	2894.6	2936.1	3045.8	3099.1	3096.1
47.5°	8909.1	4023.5	2959.8	2876.9	2894.6	2782.1	2758.4	2776.1	2909.4	2995.4	3019.1
50°	8764.0	3842.8	2796.9	2684.3	2610.2	2663.5	2669.5	2672.4	2805.7	2903.6	2924.3
52.5°	8648.4	3706.5	2610.2	2527.3	2438.4	2556.9	2601.4	2607.3	2687.2	2767.2	2782.1
55°	8716.5	3629.4	2426.5	2367.2	2287.3	2447.3	2533.2	2545.0	2562.9	2622.1	2631.0
57.5°	8921.0	3647.2	2278.4	2201.4	2142.1	2316.9	2462.1	2470.9	2459.2	2530.2	2542.1
60°	8983.2	3638.3	2168.8	2017.6	1982.2	2177.7	2358.4	2376.2	2373.2	2476.9	2497.6
62.5°	8722.5	3525.7	2059.2	1863.6	1839.9	2035.5	2213.2	2284.3	2299.1	2447.3	2474.0
65°	8109.2	3294.6	1913.9	1700.7	1700.7	1884.3	2074.0	2171.7	2213.2	2411.7	2441.3
67.5°	7300.4	3022.0	1765.8	1561.4	1555.4	1739.2	1925.8	2026.6	2091.7	2361.4	2379.1
70°	6058.9	2654.7	1582.2	1410.3	1410.3	1576.2	1745.1	1866.6	1961.4	2266.6	2266.6
72.5°	4150.9	2207.3	1359.9	1238.5	1241.4	1395.5	1567.3	1703.6	1816.2	2076.9	2082.8
75°	2625.0	1724.4	1117.0	1054.8	1066.6	1211.8	1389.6	1531.8	1756.9	2053.2	2062.1
77.5°	1395.5	1211.8	888.9	874.1	888.9	1022.2	1220.7	1416.2	1762.9	1780.6	1751.0
80°	903.7	859.2	702.2	672.5	678.5	823.7	1087.3	1345.1	1416.2	1434.0	1368.8
82.5°	491.8	545.1	497.8	468.1	468.1	642.9	927.4	1069.6	1016.3	844.4	805.8
85°	210.3	254.8	257.8	225.1	216.3	397.0	622.2	583.7	542.2	518.5	512.6
87.5°	59.3	82.9	82.9	62.2	47.4	109.6	124.5	35.6	0.0	2.9	5.9
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)