

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: P532198

Luminaire Tested: **GALN-SA7C-735-U-T3R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P532198
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-12)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA7C-735-U-T3R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 39821 lumens
Efficiency: N/A
Efficacy: 105.6 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

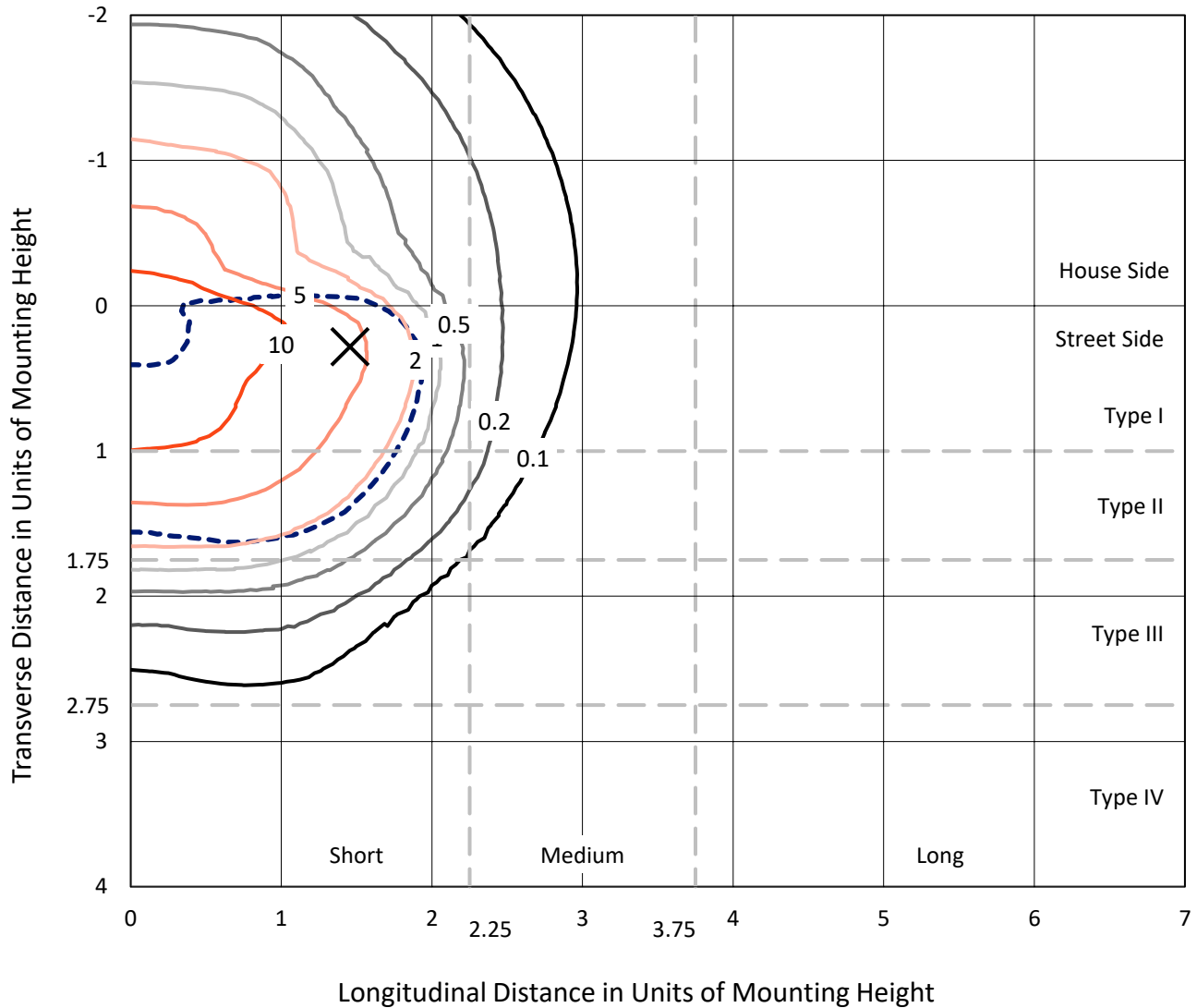
Input Watts (W): 377
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

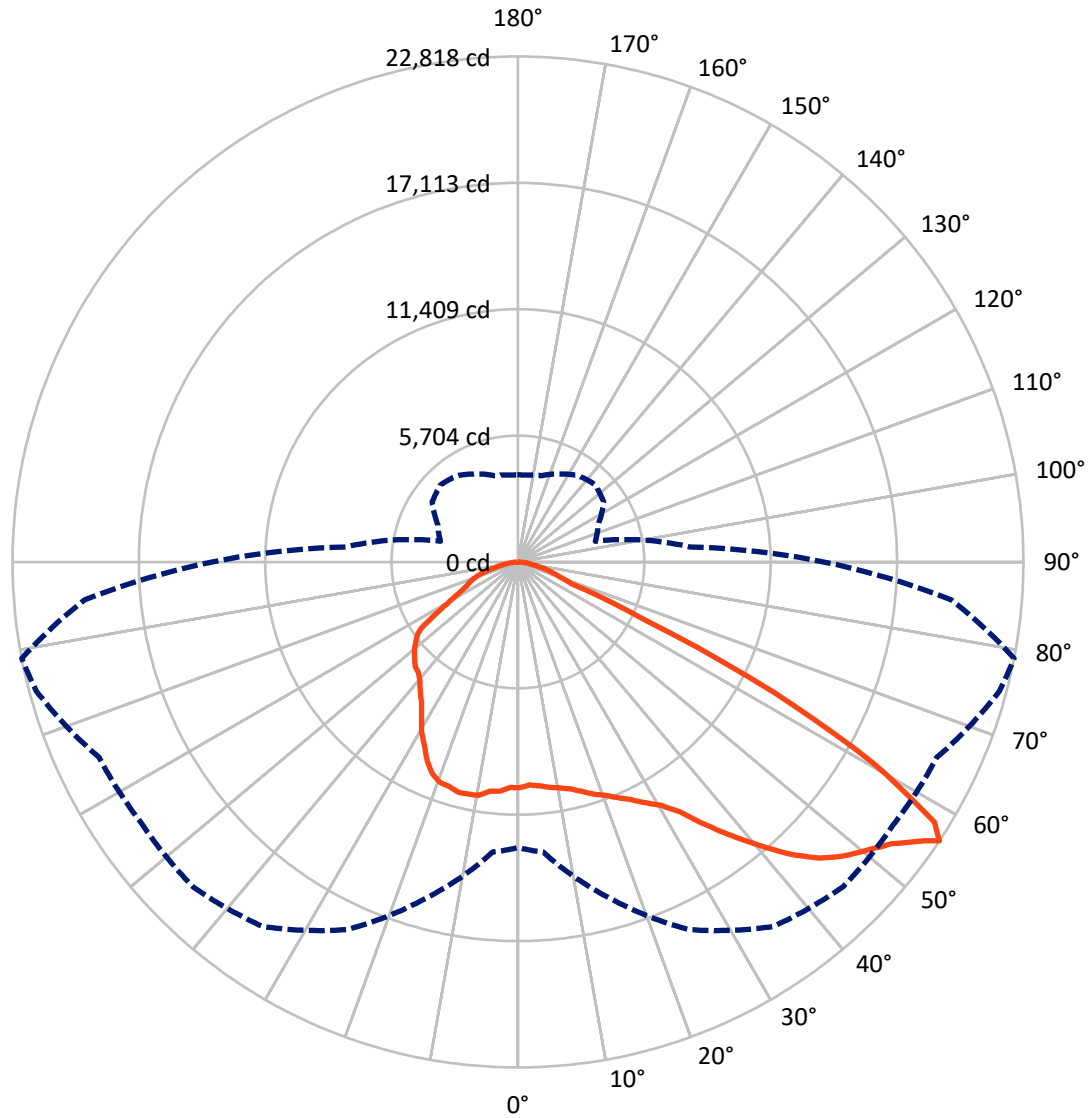
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11760.0	0.0	11760.0
	% Fixture	29.5	0.0	29.5
Street Side	Lumens	28061.0	0.0	28061.0
	% Fixture	70.5	0.0	70.5
Total	Lumens	39821.0	0.0	39821.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	926.3	2.3
10°-20°	2535.1	6.4
20°-30°	4337.1	10.9
30°-40°	6647.2	16.7
40°-50°	8983.6	22.6
50°-60°	10318.0	25.9
60°-70°	4703.3	11.8
70°-80°	1159.6	2.9
80°-90°	210.7	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°	39821.0	100.0
0°-180°	39821.0	100.0

Coefficient of Utilization



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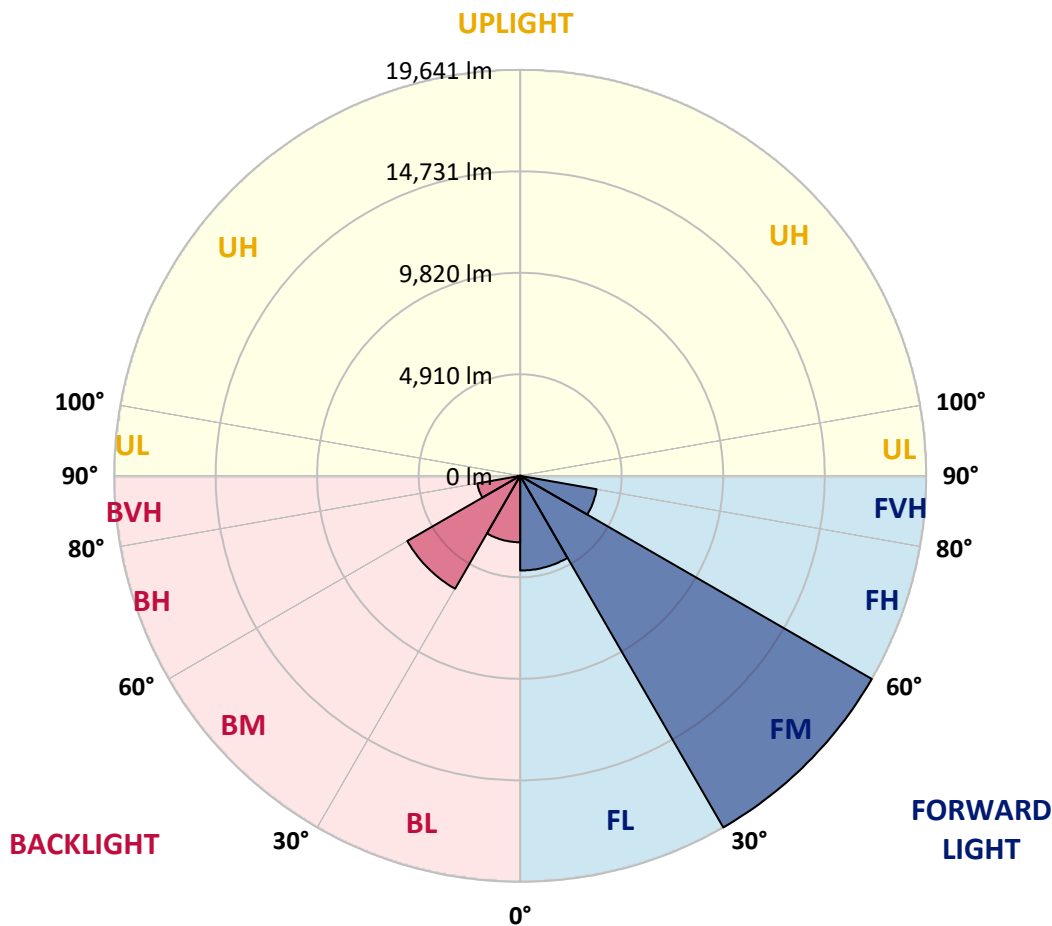
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4581.7	11.5			
FM (30°-60°)	19640.9	49.3			
FH (60°-80°)	3754.2	9.4			G2/5000
FVH (80°-90°)	84.1	0.2			G1/100
BL (0°-30°)	3216.9	8.1	B4/5000		
BM (30°-60°)	6307.9	15.8	B4/8500		
BH (60°-80°)	2108.6	5.3	B3/2500		G3/2500
BVH (80°-90°)	126.6	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°	55°	65°	75°	79°	85°
0°	10188.6	10188.6	10188.6	10188.6	10188.6	10188.6	10188.6	10188.6	10188.6	10188.6	10188.6
2.5°	9692.6	9667.8	9727.3	9771.9	9826.5	9896.0	9930.7	9950.5	10124.1	10079.5	10213.4
5°	9484.2	9419.8	9464.4	9499.1	9593.4	9677.7	9771.9	9920.8	10079.5	10148.9	10312.6
7.5°	9300.7	9266.0	9256.1	9280.9	9409.8	9519.0	9682.7	9900.9	10158.9	10272.9	10367.2
10°	8998.1	8948.5	9022.9	9186.6	9221.3	9449.5	9638.0	9950.5	10173.7	10372.2	10649.9
12.5°	8864.2	8814.6	8829.5	8923.7	9166.8	9385.0	9608.3	9960.4	10431.7	10511.0	10883.1
15°	9077.5	9027.9	9042.8	9018.0	9251.1	9365.2	9717.4	10158.9	10610.2	10744.2	11141.0
17.5°	9563.6	9568.6	9504.1	9449.5	9395.0	9638.0	9881.1	10277.9	10679.7	11017.0	11314.6
20°	10491.2	10327.5	10198.5	9891.0	9806.7	9910.8	10218.4	10600.3	10962.4	11240.2	11577.5
22.5°	11205.5	11220.4	11036.8	10530.9	10347.3	10392.0	10654.9	10967.4	11364.2	11562.6	11949.6
25°	12242.2	12138.0	11939.6	11537.8	11126.1	11160.9	11354.3	11637.0	11746.2	11885.1	12306.7
27.5°	13189.6	13219.4	12827.5	12450.5	11939.6	11840.4	12187.6	12237.3	12053.7	12316.6	12460.5
30°	14152.0	14127.2	13869.2	13427.7	12926.7	12946.6	13100.4	12857.3	12604.3	12748.2	12847.4
32.5°	15149.0	14866.3	14856.3	14459.5	14077.6	13894.0	13705.5	13824.6	13432.7	13462.5	13368.2
35°	15947.6	15987.3	15759.1	15476.4	15287.9	14965.5	14449.6	14662.9	14588.5	14553.7	14147.0
37.5°	16528.0	16374.2	16488.3	16394.1	16215.5	15813.7	15278.0	15481.3	15516.1	15684.7	15213.5
40°	17004.2	16939.7	17242.3	17291.9	17167.9	16299.8	15337.5	15942.7	16463.5	16830.6	16270.0
42.5°	17232.4	17371.2	17688.7	18070.7	17792.9	16865.3	15645.0	16294.8	17455.6	18035.9	17272.0
45°	17539.9	17361.3	17832.6	18532.0	18536.9	17341.5	15942.7	16771.0	18229.4	19072.7	17956.6
47.5°	17227.4	17316.7	17802.8	18690.7	18918.9	17842.5	16746.2	17445.7	19082.6	19831.6	18591.5
50°	16528.0	16706.6	17594.5	18517.1	19206.6	18373.2	17668.9	18174.8	19871.3	20441.7	18695.7
52.5°	15798.8	15898.0	17286.9	18651.0	19335.6	19057.8	18904.0	19181.8	20833.6	21131.2	18824.6
55°	13814.7	14285.9	16270.0	18591.5	19965.5	20292.9	20173.9	20580.6	21924.9	22222.5	19529.0
56°	12897.0	13145.0	15659.9	18313.7	20089.5	20744.3	20684.8	20868.3	22505.2	22817.7	19638.1
57.5°	11200.5	11220.4	13353.3	17083.5	19623.3	20878.2	20818.7	20962.6	22391.1	22177.9	18680.8
60°	7009.0	7316.6	9087.4	13140.0	16686.7	19370.3	19707.6	18551.8	18879.2	18427.8	14533.9
62.5°	3631.0	3586.4	4762.0	7683.6	11076.5	13869.2	14181.7	14127.2	13621.2	12961.5	9494.2
65°	1810.5	1820.5	2490.1	3804.6	5674.7	7262.0	8135.0	8229.3	6885.0	6334.4	4504.0
67.5°	1314.5	1364.1	1790.7	2326.4	2673.6	2991.1	3665.7	3596.3	2723.2	2589.3	2400.8
70°	1021.8	1066.5	1453.4	1775.8	1612.1	1612.1	1756.0	1815.5	1939.5	1994.1	2058.6
72.5°	744.1	778.8	1111.1	1225.2	1056.6	1135.9	1314.5	1453.4	1582.4	1602.2	1676.6
75°	510.9	540.7	729.2	674.6	634.9	783.7	962.3	1091.3	1185.5	1235.1	1279.8
77.5°	332.3	342.3	416.7	352.2	406.8	506.0	625.0	734.1	828.4	868.1	878.0
80°	148.8	163.7	178.6	223.2	282.7	362.1	446.4	535.7	595.2	610.1	639.9
82.5°	84.3	84.3	109.1	158.7	208.3	262.9	322.4	386.9	456.4	471.2	466.3
85°	44.6	44.6	64.5	94.2	129.0	153.8	148.8	153.8	163.7	188.5	183.5
87.5°	14.9	14.9	19.8	19.8	24.8	29.8	24.8	34.7	44.6	44.6	44.6
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°	10188.6	10188.6	10188.6	10188.6	10188.6	10188.6	10188.6	10188.6	10188.6	10188.6	10188.6
2.5°	10173.7	10218.4	10158.9	10287.8	10287.8	10263.0	10139.0	10178.7	10208.5	10208.5	10233.3
5°	10367.2	10352.3	10392.0	10238.2	10144.0	10109.3	9905.9	9806.7	9722.3	9717.4	9643.0
7.5°	10476.3	10436.6	10421.8	10307.7	9891.0	9638.0	9201.5	8948.5	8894.0	8700.5	8774.9
10°	10649.9	10724.3	10649.9	10029.9	9449.5	8869.2	8442.6	8050.7	7896.9	7772.9	7698.5
12.5°	11007.1	10972.4	10540.8	9702.5	8889.0	8199.5	7564.6	7152.9	6999.1	6890.0	6880.0
15°	11309.7	11136.0	10476.3	9186.6	8016.0	7281.8	6761.0	6468.3	6398.9	6408.8	6453.5
17.5°	11413.8	11294.8	10139.0	8650.9	7366.2	6503.1	6260.0	6215.4	6279.8	6354.2	6374.1
20°	11577.5	11389.0	10000.1	7921.7	6562.6	6016.9	6002.1	6160.8	6279.8	6389.0	6403.8
22.5°	11919.8	11443.6	9548.7	7232.2	6012.0	5873.1	6016.9	6150.9	6334.4	6423.7	6344.3
25°	12019.0	11324.5	8913.8	6403.8	5664.8	5783.8	5937.6	6121.1	6250.1	6299.7	6334.4
27.5°	12103.3	11141.0	8055.7	5853.2	5555.6	5778.8	5937.6	6091.3	6160.8	6205.4	6245.1
30°	12341.4	11086.4	7311.6	5486.2	5486.2	5679.6	5883.0	5922.7	6016.9	6071.5	6140.9
32.5°	12460.5	10709.5	6547.7	5253.0	5416.7	5729.2	5744.1	5818.5	5823.5	5868.1	5793.7
35°	12773.0	10441.6	5838.4	5084.4	5446.5	5679.6	5754.0	5709.4	5466.3	5347.3	5372.1
37.5°	13001.2	10307.7	5327.4	5064.5	5451.5	5734.2	5773.9	5436.6	5183.6	4985.2	5034.8
40°	13616.2	9975.3	4940.5	5029.8	5496.1	5793.7	5684.6	5317.5	4861.2	4657.8	4623.1
42.5°	14087.5	9737.2	4697.5	4990.1	5530.8	5878.0	5640.0	5079.4	4613.2	4424.7	4474.3
45°	14633.1	9682.7	4568.5	5000.1	5590.3	5922.7	5585.4	4895.9	4399.9	4325.4	4310.6
47.5°	14826.6	9290.8	4429.6	4915.7	5575.5	5907.8	5401.9	4757.0	4320.5	4330.4	4370.1
50°	14504.1	8889.0	4325.4	4742.1	5476.3	5773.9	5114.2	4573.5	4275.8	4399.9	4469.3
52.5°	14092.4	8477.3	4112.2	4509.0	5272.9	5565.5	4980.2	4563.5	4231.2	4191.5	4206.4
55°	14216.4	8140.0	3814.5	4191.5	4945.5	5178.6	4831.4	4469.3	4122.1	3973.3	4022.9
56°	13814.7	7792.8	3621.1	3993.1	4722.3	4930.6	4757.0	4385.0	4032.8	3933.6	3933.6
57.5°	12678.7	6627.1	3368.1	3675.6	4251.0	4499.1	4613.2	4335.4	3933.6	3760.0	3764.9
60°	9350.3	4712.4	3020.9	3239.1	3521.9	3720.3	4251.0	4196.5	3685.6	3566.5	3521.9
62.5°	5764.0	3442.5	2772.9	2857.2	3001.0	3164.7	3710.4	3799.6	3422.7	3293.7	3263.9
65°	3229.2	2634.0	2584.4	2619.1	2688.5	2772.9	3080.4	3278.8	3020.9	2822.5	2812.5
67.5°	2361.1	2356.2	2395.9	2425.6	2455.4	2455.4	2529.8	2609.2	2574.4	2415.7	2400.8
70°	2098.2	2113.1	2142.9	2147.8	2157.8	2123.0	2063.5	2038.7	2078.4	1979.2	1959.3
72.5°	1731.2	1780.8	1815.5	1820.5	1765.9	1721.3	1641.9	1557.6	1527.8	1508.0	1503.0
75°	1329.4	1364.1	1379.0	1374.0	1354.2	1289.7	1195.5	1111.1	1056.6	997.0	1026.8
77.5°	897.8	947.4	972.2	972.2	942.5	843.3	798.6	734.1	679.6	615.1	625.0
80°	630.0	664.7	704.4	699.4	649.8	600.2	535.7	476.2	431.6	381.9	377.0
82.5°	471.2	491.1	510.9	501.0	466.3	416.7	372.0	317.5	267.9	233.1	233.1
85°	168.7	183.5	223.2	233.1	253.0	253.0	213.3	178.6	143.9	119.0	119.0
87.5°	49.6	49.6	54.6	54.6	49.6	54.6	44.6	49.6	54.6	34.7	34.7
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)