

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: P532196

Luminaire Tested: **GALN-SA7C-735-U-T3-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P532196
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-SA7C-735-U-T3-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3500K, 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: 38892 lumens
Efficiency: N/A
Efficacy: 103.2 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

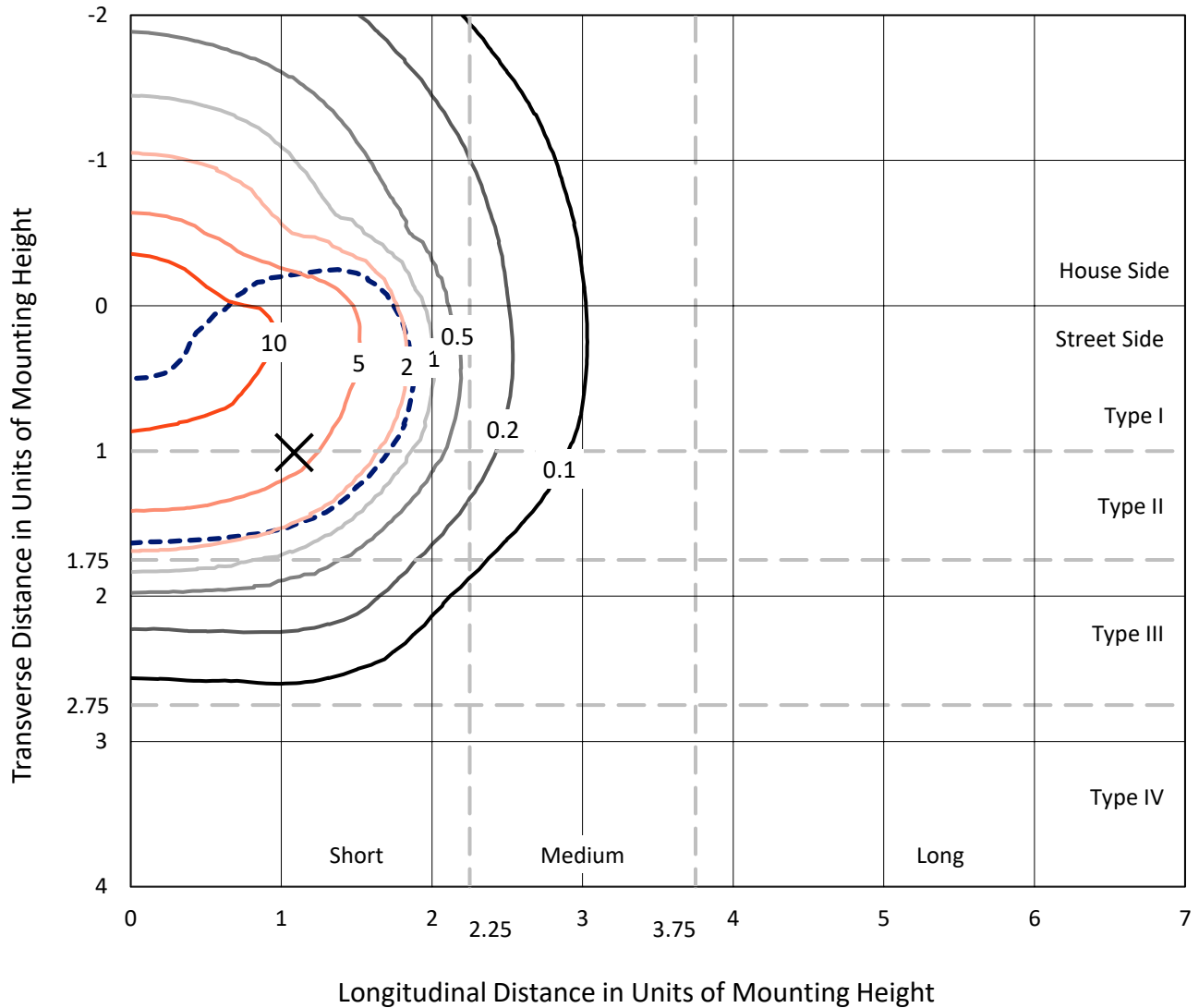
Input Watts (W): 377
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

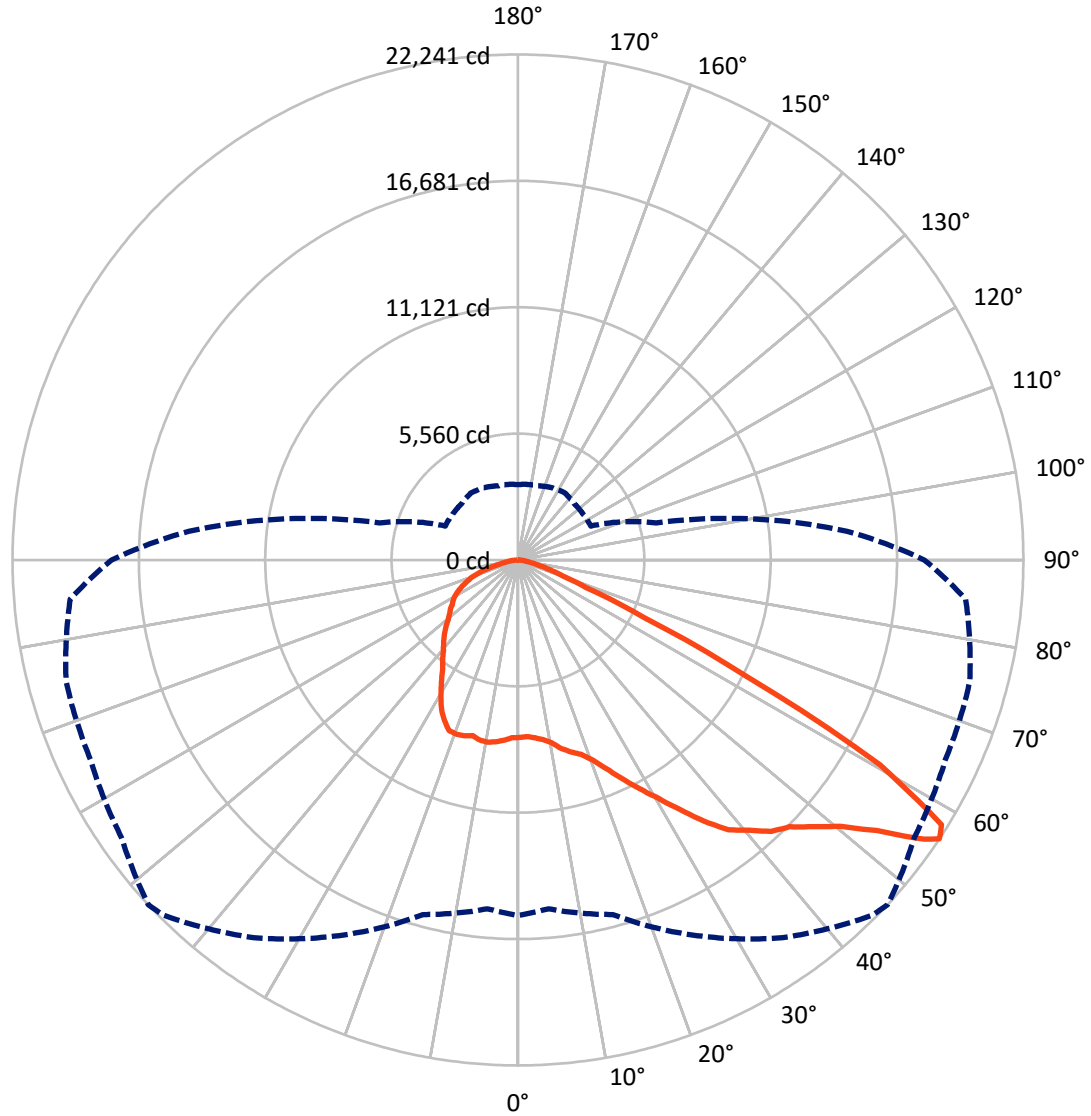
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.1 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	12324.4	0.0	12324.4
	% Fixture	31.7	0.0	31.7
Street Side	Lumens	26567.6	0.0	26567.6
	% Fixture	68.3	0.0	68.3
Total	Lumens	38892.0	0.0	38892.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	761.2	2.0
10°-20°	2401.2	6.2
20°-30°	4244.7	10.9
30°-40°	6375.4	16.4
40°-50°	8749.7	22.5
50°-60°	10424.1	26.8
60°-70°	4460.9	11.5
70°-80°	1262.4	3.2
80°-90°	212.4	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°	38892.0	100.0
0°-180°	38892.0	100.0

Coefficient of Utilization



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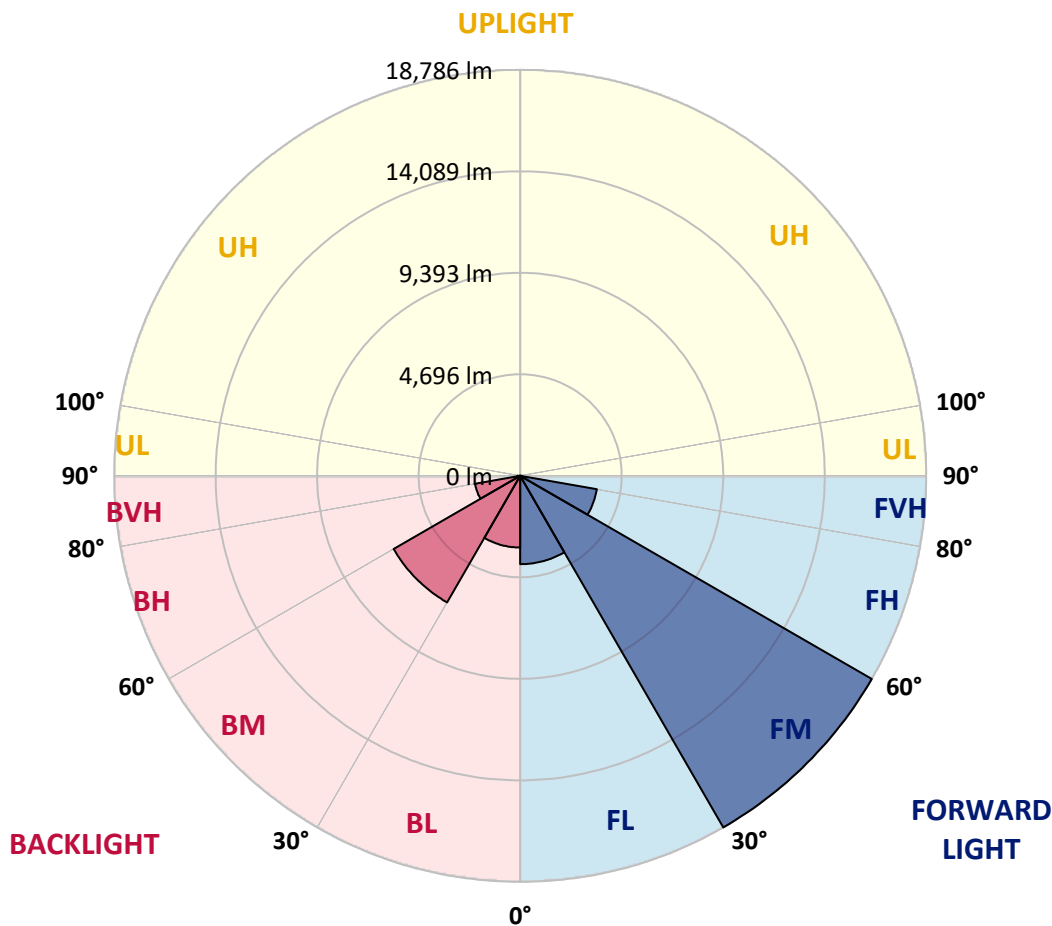
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4088.9	10.5			
FM (30°-60°)	18785.7	48.3			
FH (60°-80°)	3602.8	9.3			G2/5000
FVH (80°-90°)	90.2	0.2			G1/100
BL (0°-30°)	3318.2	8.5	B4/5000		
BM (30°-60°)	6763.4	17.4	B4/8500		
BH (60°-80°)	2120.5	5.5	B3/2500		G3/2500
BVH (80°-90°)	122.3	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°	7812.2	7812.2	7812.2	7812.2	7812.2	7812.2	7812.2	7812.2	7812.2	7812.2	7812.2
2.5°	7782.5	7767.6	7757.7	7837.0	7807.3	7812.2	7782.5	7812.2	7832.1	7787.4	7851.9
5°	7767.6	7812.2	7772.5	7797.3	7861.8	7842.0	7861.8	7921.3	7906.5	7891.6	7871.7
7.5°	7906.5	7911.4	7941.2	7951.1	7970.9	7951.1	7980.9	8035.4	8020.5	7936.2	7946.1
10°	8104.9	8114.8	8119.7	8174.3	8209.0	8214.0	8179.3	8129.7	8124.7	8238.8	8159.4
12.5°	8333.0	8308.2	8367.8	8387.6	8427.3	8471.9	8516.6	8412.4	8476.9	8481.8	8387.6
15°	8665.4	8690.2	8620.7	8620.7	8635.6	8640.6	8764.6	8715.0	8705.0	8650.5	8690.2
17.5°	9161.4	8992.7	8987.8	8918.3	8908.4	8948.1	8992.7	9032.4	9166.3	9057.2	8843.9
20°	9523.5	9563.2	9419.3	9335.0	9349.9	9439.1	9394.5	9573.1	9667.3	9488.7	9280.4
22.5°	10163.3	10029.4	10064.1	9875.6	9890.5	9984.8	9979.8	10163.3	10217.9	9935.2	9632.6
25°	10594.9	10560.1	10589.9	10441.1	10460.9	10535.3	10654.4	10957.0	10867.7	10555.2	9855.8
27.5°	11224.8	11155.4	11130.6	11076.0	11056.2	11254.6	11393.4	11715.9	11651.4	11195.0	10252.6
30°	11869.6	11825.0	11849.8	11626.6	11705.9	12127.5	12167.2	12608.7	12578.9	11775.4	10694.1
32.5°	12316.0	12340.8	12385.5	12261.5	12613.6	12950.9	13084.9	13585.8	13610.6	12772.4	11547.2
35°	13035.2	12950.9	12975.7	13119.6	13283.3	13898.3	14116.6	14448.9	14657.2	13819.0	12365.6
37.5°	13486.6	13575.9	13471.7	13699.9	14126.5	14865.5	15063.9	15406.2	15624.4	14850.7	13481.7
40°	14191.0	14047.1	14121.5	14285.2	14721.7	15684.0	15629.4	15981.6	16051.0	15728.6	14523.3
42.5°	14949.9	14880.4	14776.3	15148.3	15515.3	16214.7	16323.8	16160.1	16512.3	16586.7	16011.3
45°	15857.6	15941.9	15956.8	15966.7	16289.1	16899.2	16750.4	16606.6	17013.3	17553.9	16933.9
47.5°	16700.8	16432.9	16626.4	16894.2	17350.6	17355.5	17529.1	17186.9	17618.4	18099.6	17767.2
50°	16983.5	16854.6	17112.5	17618.4	18322.8	18397.2	18417.0	17930.9	18154.1	18536.0	18054.9
52.5°	16874.4	16829.8	17489.5	18273.2	19304.9	19681.8	19781.0	19180.9	19304.9	19131.3	18689.8
55°	16353.6	16487.5	17152.2	18749.3	20331.6	21497.2	21685.7	20926.8	20138.2	20272.1	19786.0
56°	15639.3	15406.2	16150.2	18208.7	20287.0	22087.5	22241.3	21293.9	20758.2	20584.6	19776.1
57.5°	13268.4	12965.8	13943.0	16383.3	19161.0	21864.3	21978.4	21447.6	20654.0	20301.9	18332.7
60°	7767.6	7916.4	9156.4	11299.2	14781.2	17925.9	18307.9	18694.8	18164.0	16586.7	13645.3
62.5°	3749.9	3655.6	4543.5	6477.9	9007.6	11443.0	11329.0	12415.2	13010.4	11785.3	8615.8
65°	1964.2	1954.3	2480.1	3536.6	4950.2	6011.7	6115.9	6701.1	7519.6	6071.2	4374.8
67.5°	1443.4	1483.1	1746.0	2485.0	3184.4	3248.9	3234.0	3526.7	3606.0	3050.5	2688.4
70°	1130.9	1150.8	1344.2	1889.8	2370.9	2122.9	2078.3	2113.0	2346.1	2445.3	2326.3
72.5°	818.4	838.3	1001.9	1274.8	1483.1	1448.4	1478.1	1671.6	1959.3	2063.4	1939.4
75°	545.6	560.5	649.8	778.7	877.9	947.4	1001.9	1225.2	1493.0	1552.5	1493.0
77.5°	377.0	391.9	451.4	550.6	560.5	605.1	625.0	729.1	892.8	967.2	927.5
80°	213.3	213.3	243.0	282.7	347.2	406.7	416.7	501.0	575.4	625.0	634.9
82.5°	99.2	104.2	129.0	173.6	228.2	282.7	292.6	347.2	401.8	451.4	466.3
85°	49.6	54.6	74.4	104.2	138.9	168.6	163.7	168.6	178.6	168.6	173.6
87.5°	14.9	14.9	19.8	24.8	19.8	24.8	24.8	29.8	34.7	39.7	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°	7812.2	7812.2	7812.2	7812.2	7812.2	7812.2	7812.2	7812.2	7812.2	7812.2	7812.2
2.5°	7856.9	7871.7	7772.5	7866.8	7832.1	7827.1	7896.5	7886.6	7911.4	7901.5	7842.0
5°	7861.8	7827.1	7931.3	7837.0	7881.7	7975.9	7911.4	8060.2	7985.8	8035.4	7926.3
7.5°	8015.6	8025.5	8005.7	8045.3	8025.5	8070.1	8035.4	8070.1	8010.6	8015.6	8114.8
10°	8149.5	8119.7	8154.5	8104.9	8139.6	8124.7	8045.3	8020.5	8040.4	8015.6	8080.1
12.5°	8397.5	8343.0	8318.2	8258.6	8219.0	8070.1	7946.1	7876.7	7970.9	7985.8	7956.1
15°	8650.5	8655.4	8541.4	8407.4	8159.4	7936.2	7966.0	7990.8	7990.8	8030.5	7956.1
17.5°	8809.2	8809.2	8705.0	8437.2	8184.2	8055.3	8025.5	7946.1	7876.7	7866.8	7861.8
20°	9087.0	9002.7	8764.6	8432.2	8174.3	8114.8	7891.6	7703.1	7559.3	7509.7	7504.7
22.5°	9404.4	9191.1	8858.8	8442.2	8159.4	8075.1	7658.5	7375.7	7117.8	7008.7	7023.6
25°	9697.1	9354.8	8913.4	8397.5	8104.9	7698.1	7231.9	6840.0	6572.2	6482.9	6438.3
27.5°	9900.4	9528.4	8913.4	8437.2	7901.5	7276.5	6800.4	6299.4	6066.3	6006.7	6016.7
30°	10173.2	9746.7	9067.1	8352.9	7494.8	6730.9	6160.5	5833.1	5694.2	5644.6	5679.4
32.5°	10813.1	10317.1	9280.4	8149.5	7013.6	6185.3	5724.0	5540.5	5337.1	5237.9	5203.2
35°	11507.5	10857.7	9488.7	7807.3	6473.0	5689.3	5401.6	5232.9	4989.9	4880.8	4900.6
37.5°	12489.6	11552.2	9503.6	7241.8	5887.7	5411.5	5148.6	4885.7	4687.3	4518.7	4469.1
40°	13814.0	12499.6	9468.9	6646.6	5416.5	5084.1	4890.7	4563.3	4340.1	4221.1	4245.9
42.5°	14979.6	13610.6	9325.1	5972.0	4989.9	4860.9	4642.7	4320.3	4102.0	3978.0	3968.1
45°	15961.7	14429.0	9052.3	5396.6	4632.8	4612.9	4360.0	4112.0	3938.4	3824.3	3873.9
47.5°	16869.4	15088.7	8640.6	4821.3	4305.4	4345.1	4102.0	3948.3	3839.1	3735.0	3730.0
50°	17196.8	15078.8	8278.5	4345.1	4042.5	4022.7	4012.8	3849.1	3735.0	3645.7	3685.4
52.5°	17742.4	15247.5	7886.6	4017.7	3804.4	3809.4	3844.1	3725.1	3596.1	3541.5	3591.1
55°	18526.1	15272.3	7023.6	3635.8	3606.0	3640.7	3640.7	3561.4	3452.3	3407.6	3382.8
56°	17886.3	14533.2	6299.4	3536.6	3506.8	3506.8	3601.1	3511.8	3377.9	3343.1	3313.4
57.5°	16497.4	12732.7	5272.6	3417.5	3372.9	3442.3	3491.9	3397.7	3273.7	3224.1	3253.9
60°	11378.6	8615.8	3963.2	3159.6	3159.6	3273.7	3313.4	3174.5	3119.9	3115.0	3075.3
62.5°	6641.6	5019.7	3100.1	2926.5	2936.4	3030.6	3060.4	2981.0	2911.6	2995.9	3035.6
65°	3521.7	2995.9	2658.6	2678.5	2683.4	2757.8	2886.8	2881.8	2876.9	2901.7	2906.6
67.5°	2549.5	2490.0	2415.6	2395.7	2405.7	2460.2	2589.2	2688.4	2683.4	2623.9	2579.3
70°	2271.7	2187.4	2142.8	2147.7	2108.1	2172.5	2276.7	2341.2	2227.1	2157.7	2127.9
72.5°	1889.8	1865.0	1835.3	1840.2	1760.8	1746.0	1626.9	1626.9	1597.2	1577.3	1612.0
75°	1443.4	1433.5	1448.4	1423.6	1339.2	1250.0	1180.5	1116.0	1016.8	977.1	957.3
77.5°	912.7	942.4	977.1	922.6	887.9	823.4	753.9	689.5	610.1	565.5	565.5
80°	620.0	644.8	669.6	659.7	620.0	560.5	505.9	436.5	381.9	347.2	342.2
82.5°	471.2	491.1	525.8	486.1	446.4	396.8	352.2	302.6	253.0	213.3	213.3
85°	168.6	193.4	213.3	233.1	248.0	253.0	218.2	178.6	143.8	114.1	109.1
87.5°	44.6	49.6	54.6	49.6	49.6	49.6	54.6	49.6	44.6	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)