

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: P533824

Luminaire Tested: **GALN-SA9B-735-U-SL3-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533824
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-20)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA9B-735-U-SL3-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 40653 lumens
Efficiency: N/A
Efficacy: 111.7 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

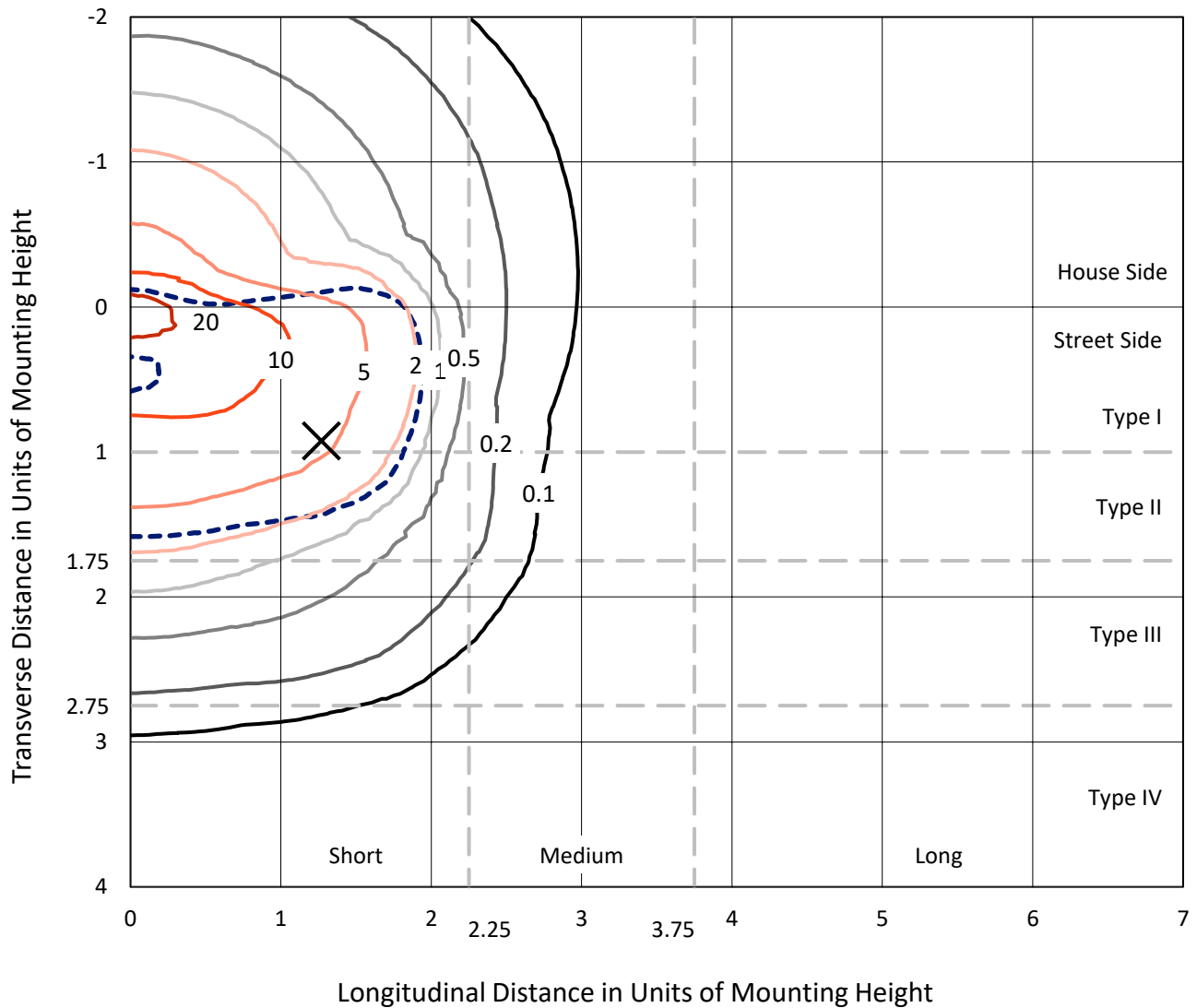
Input Watts (W): 364
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

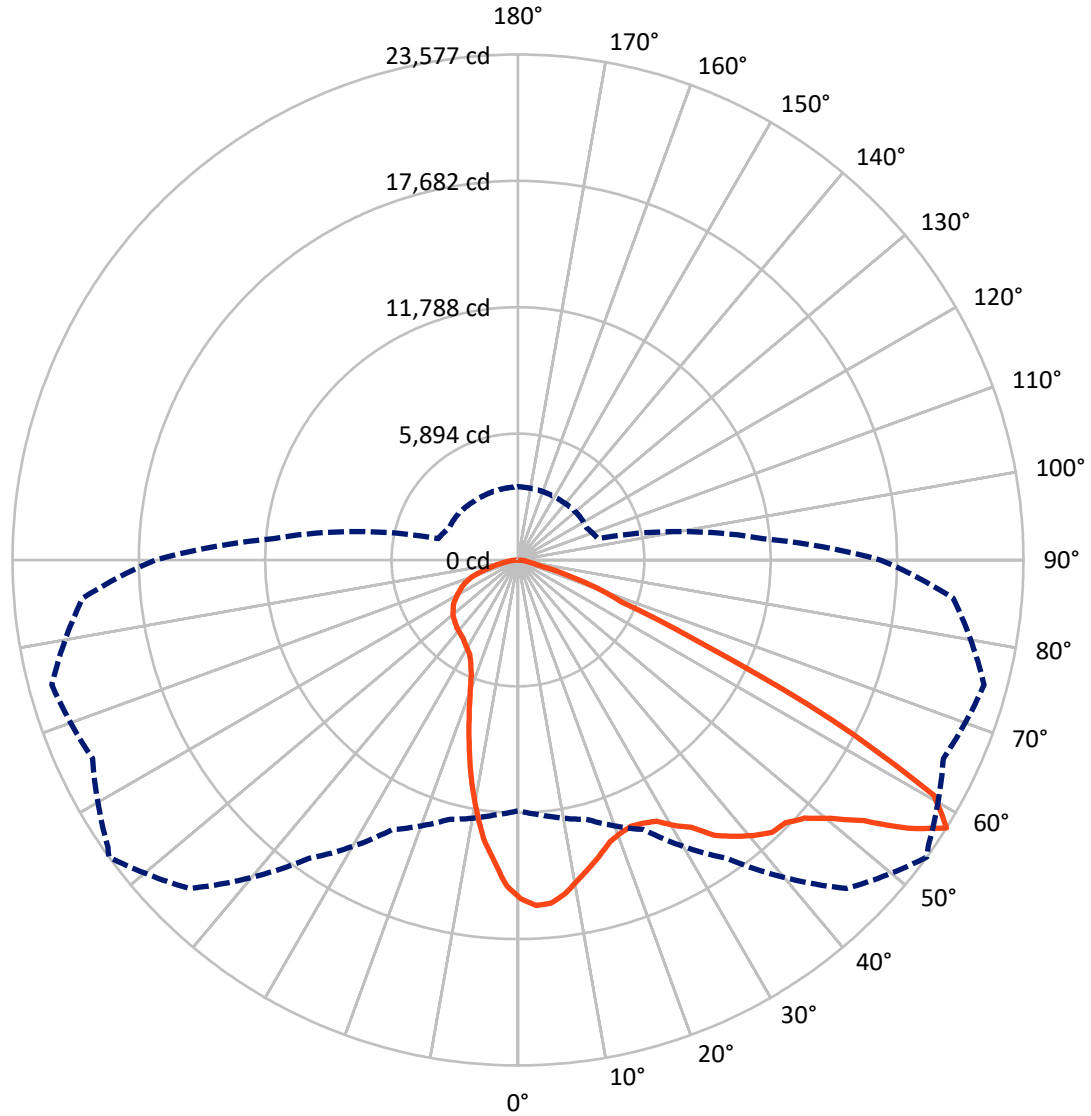
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 25.3 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11246.9	0.0	11246.9
	% Fixture	27.7	0.0	27.7
Street Side	Lumens	29406.1	0.0	29406.1
	% Fixture	72.3	0.0	72.3
Total	Lumens	40653.0	0.0	40653.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1362.7	3.4
10°-20°	3155.2	7.8
20°-30°	4433.1	10.9
30°-40°	6197.5	15.2
40°-50°	8390.2	20.6
50°-60°	10219.6	25.1
60°-70°	5322.8	13.1
70°-80°	1363.9	3.4
80°-90°	208.1	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°	40653.0	100.0
0°-180°	40653.0	100.0

Coefficient of Utilization



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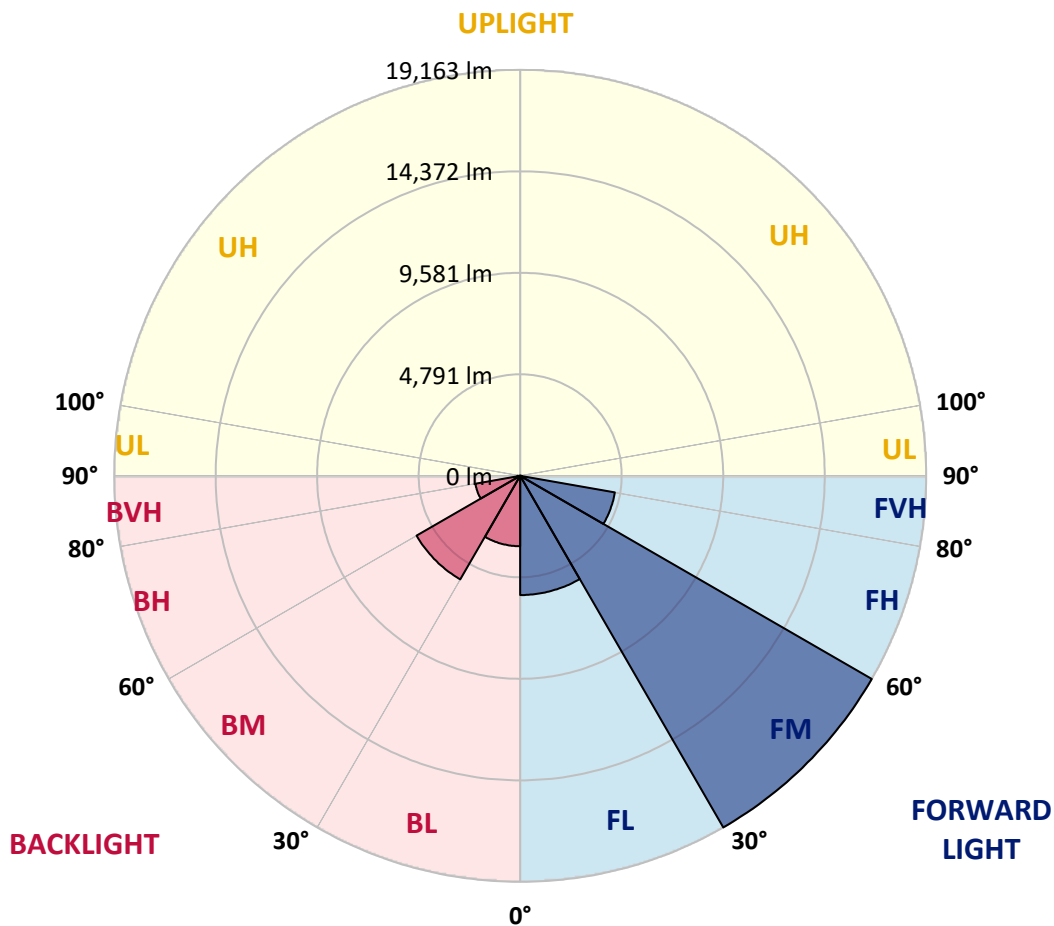
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5626.9	13.8			
FM (30°-60°)	19162.6	47.1			
FH (60°-80°)	4538.0	11.2			G2/5000
FVH (80°-90°)	78.6	0.2			G1/100
BL (0°-30°)	3324.0	8.2	B4/5000		
BM (30°-60°)	5644.7	13.9	B4/8500		
BH (60°-80°)	2148.7	5.3	B3/2500		G3/2500
BVH (80°-90°)	129.4	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°	54°	55°	65°	75°	85°
0°	15801.4	15801.4	15801.4	15801.4	15801.4	15801.4	15801.4	15801.4	15801.4	15801.4	15801.4
2.5°	16250.7	16188.0	16198.5	16282.1	16177.6	16135.8	16135.8	15932.0	15947.7	15806.6	15770.0
5°	15874.5	15728.2	15827.5	15952.9	15973.8	16015.6	16083.5	16031.3	15885.0	15733.4	15487.8
7.5°	14892.2	15022.8	15059.4	15148.2	15336.3	15508.7	15723.0	15576.7	15571.4	15419.9	15273.6
10°	14030.0	13951.6	14150.2	14280.8	14594.3	14881.7	15210.9	15195.2	15273.6	15101.2	14850.3
12.5°	13173.0	13110.3	13204.4	13502.2	13941.1	14359.2	14751.1	14604.8	15022.8	14991.4	14453.2
15°	12263.8	12310.8	12446.7	12723.6	13298.4	13800.1	14296.5	14301.7	14672.7	14798.1	14077.0
17.5°	11626.3	11574.1	11746.5	12159.3	12671.4	13272.3	13836.6	13951.6	14521.2	14594.3	13962.0
20°	11150.8	11224.0	11448.7	11657.7	12248.1	12974.5	13611.9	13653.8	14489.8	14688.4	13779.2
22.5°	11035.9	10994.1	11067.2	11406.9	11892.8	12681.8	13491.8	13648.5	14484.6	14657.0	13434.3
25°	10915.7	11051.5	11046.3	11386.0	11741.3	12446.7	13591.0	13763.5	14761.5	14819.0	13481.3
27.5°	11187.4	11171.7	11318.0	11344.2	11783.1	12509.4	13800.1	13930.7	15221.3	15174.3	13517.9
30°	11459.1	11380.7	11469.6	11777.9	11981.6	12870.0	14374.8	14364.4	15817.0	15785.7	13632.8
32.5°	11793.5	11757.0	11814.4	12086.2	12431.0	13350.7	14860.8	15169.1	16423.2	16621.7	14030.0
35°	11856.2	12007.8	12143.6	12509.4	13000.6	14129.3	15775.2	16031.3	17123.4	17745.2	14787.6
37.5°	12253.4	12310.8	12629.6	13277.5	13726.9	15169.1	16355.2	16517.2	17760.8	18466.3	15587.1
40°	12676.6	12744.5	13225.3	13904.6	14521.2	15848.4	16898.7	16950.9	17964.6	19020.2	16109.6
42.5°	13251.4	13314.1	13789.6	14641.3	15466.9	16428.4	17379.4	17436.9	17949.0	19657.6	16940.5
45°	13847.1	13998.6	14557.7	15524.4	16266.4	17107.7	17489.1	17724.3	18095.3	20227.2	17614.5
47.5°	14683.1	14824.2	15284.0	16229.8	17097.2	17703.4	17996.0	18225.9	18445.4	20723.6	18048.2
50°	15571.4	15597.6	16156.7	17013.6	17651.1	18377.4	18941.8	19020.2	18905.2	21298.4	18785.0
52.5°	16224.6	16308.2	16741.9	17578.0	18529.0	19422.5	20195.8	20279.5	20054.8	21512.6	19035.8
55°	15143.0	15095.9	15801.4	16914.3	19119.4	20979.6	22103.1	22165.8	20890.8	22176.2	19856.2
57.5°	11704.7	11929.4	12530.3	13873.2	16987.5	21669.4	23576.6	23351.9	21894.1	22510.7	20378.7
60°	8506.8	8454.6	8856.9	9755.7	12802.0	18675.3	22291.2	22521.1	21073.7	20289.9	16804.6
62.5°	6928.8	6855.6	6887.0	6918.3	8261.2	12394.4	16501.5	16496.3	16229.8	14583.9	11333.7
65°	5538.8	5711.3	5726.9	5962.1	6134.5	7404.3	9562.3	10074.4	8773.3	7195.3	5220.1
67.5°	4175.0	4112.3	4321.3	5157.4	5481.4	5345.5	5220.1	5277.6	3751.8	2706.7	2550.0
70°	2461.1	2435.0	2685.8	3595.0	4514.7	4248.2	3934.7	3939.9	2576.1	1891.6	2105.8
72.5°	1348.1	1342.9	1395.2	1823.6	2565.6	2664.9	2361.8	2435.0	1536.2	1531.0	1646.0
75°	752.4	736.8	721.1	804.7	924.9	977.1	998.0	1008.5	1055.5	1180.9	1227.9
77.5°	276.9	266.5	266.5	308.3	391.9	491.2	621.8	632.3	747.2	857.0	904.0
80°	94.1	104.5	141.1	193.3	261.3	350.1	423.3	433.7	527.8	600.9	616.6
82.5°	57.5	62.7	94.1	135.9	188.1	245.6	313.5	318.7	391.9	438.9	459.8
85°	26.1	31.4	52.3	83.6	120.2	162.0	167.2	167.2	162.0	167.2	156.8
87.5°	0.0	0.0	10.5	10.5	10.5	15.7	20.9	15.7	26.1	31.4	31.4
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°	15801.4	15801.4	15801.4	15801.4	15801.4	15801.4	15801.4	15801.4	15801.4	15801.4	15801.4
2.5°	15660.3	15602.8	15425.1	15268.4	15221.3	15012.3	14704.0	14740.6	14515.9	14620.4	14510.7
5°	15446.0	15252.7	14798.1	14604.8	14097.9	13868.0	13711.2	13319.3	13136.4	13099.9	12943.1
7.5°	14897.4	14777.2	14207.6	13685.1	13146.9	12687.1	12096.6	11694.3	11406.9	11328.5	11098.6
10°	14463.7	14197.2	13408.2	12613.9	11845.8	11046.3	10278.2	9677.3	9384.7	9045.0	8930.1
12.5°	14035.2	13632.8	12566.9	11547.9	10555.1	9546.7	8616.5	7885.0	7247.5	7096.0	7043.7
15°	13768.7	13068.5	11814.4	10586.5	9175.7	7858.9	6928.8	6448.0	6056.1	5894.2	6009.1
17.5°	13418.6	12603.5	11093.3	9457.8	7905.9	6693.6	5915.1	5617.2	5476.1	5491.8	5444.8
20°	12979.7	12164.5	10147.6	8433.7	6772.0	5805.3	5361.2	5251.4	5272.3	5308.9	5293.2
22.5°	12666.2	11631.6	9463.0	7388.6	5852.4	5314.1	5131.3	5052.9	5120.8	5152.2	5126.0
25°	12425.8	11177.0	8632.2	6463.7	5319.4	5037.2	4953.6	4948.4	5052.9	5094.7	5068.6
27.5°	12206.3	10753.7	7806.6	5758.3	4964.1	4823.0	4796.8	4859.5	4927.5	4969.3	5005.9
30°	12075.7	10429.7	7033.3	5167.8	4786.4	4718.5	4671.4	4728.9	4765.5	4807.3	4786.4
32.5°	12201.1	10199.8	6286.1	4833.4	4640.1	4572.2	4634.9	4598.3	4661.0	4697.6	4640.1
35°	12593.0	9996.0	5753.1	4655.8	4472.9	4499.0	4509.4	4493.8	4519.9	4488.5	4556.5
37.5°	12979.7	9922.9	5261.9	4504.2	4394.5	4394.5	4384.0	4352.7	4404.9	4394.5	4425.8
40°	13470.9	9969.9	4843.9	4342.2	4321.3	4310.9	4269.1	4263.9	4243.0	4248.2	4258.6
42.5°	13899.3	10074.4	4603.5	4237.7	4253.4	4274.3	4195.9	4133.2	4159.4	4107.1	4107.1
45°	14353.9	10168.5	4389.3	4164.6	4148.9	4143.7	4081.0	4044.4	4023.5	4028.7	4075.7
47.5°	15069.8	10304.3	4227.3	4065.3	4075.7	3997.4	3981.7	3934.7	3955.6	3986.9	3992.1
50°	15576.7	10591.7	4101.9	3950.3	3986.9	3934.7	3840.6	3819.7	3819.7	3872.0	3861.5
52.5°	15932.0	10994.1	3981.7	3824.9	3840.6	3798.8	3767.5	3720.4	3689.1	3762.2	3798.8
55°	17018.9	11662.9	3950.3	3720.4	3715.2	3673.4	3615.9	3568.9	3553.2	3563.7	3636.8
57.5°	16914.3	11453.9	3851.1	3537.5	3527.1	3469.6	3412.1	3396.5	3391.2	3401.7	3422.6
60°	13732.1	8459.8	3438.3	3328.5	3312.9	3302.4	3244.9	3182.2	3150.9	3182.2	3156.1
62.5°	9086.8	5664.2	3030.7	3077.7	3088.2	3062.0	2968.0	2905.3	2915.7	2952.3	2894.8
65°	4462.4	3328.5	2748.5	2873.9	2884.4	2811.2	2722.4	2649.2	2612.7	2644.0	2617.9
67.5°	2550.0	2544.7	2518.6	2649.2	2644.0	2570.9	2429.8	2367.1	2304.4	2314.8	2299.1
70°	2163.3	2205.1	2257.3	2335.7	2330.5	2246.9	2079.7	2032.6	1943.8	1933.4	1907.2
72.5°	1703.5	1776.6	1891.6	1949.0	1902.0	1797.5	1687.8	1609.4	1531.0	1484.0	1499.7
75°	1264.5	1369.0	1431.7	1468.3	1395.2	1337.7	1248.9	1154.8	1060.7	1018.9	1003.3
77.5°	919.7	951.0	1008.5	1034.6	987.6	930.1	877.9	783.8	695.0	637.5	621.8
80°	642.7	663.6	705.4	705.4	705.4	679.3	611.4	517.3	459.8	407.6	397.1
82.5°	449.4	470.3	512.1	491.2	486.0	454.6	412.8	339.6	276.9	240.4	229.9
85°	156.8	172.4	209.0	250.8	266.5	261.3	235.1	188.1	146.3	120.2	109.7
87.5°	36.6	36.6	41.8	36.6	36.6	41.8	36.6	36.6	36.6	26.1	20.9
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)