

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: P532900

Luminaire Tested: **GALN-SA8B-735-U-T3R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P532900
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-SA8B-735-U-T3R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3500K, 800mA 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: 37365 lumens
Efficiency: N/A
Efficacy: 115.0 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

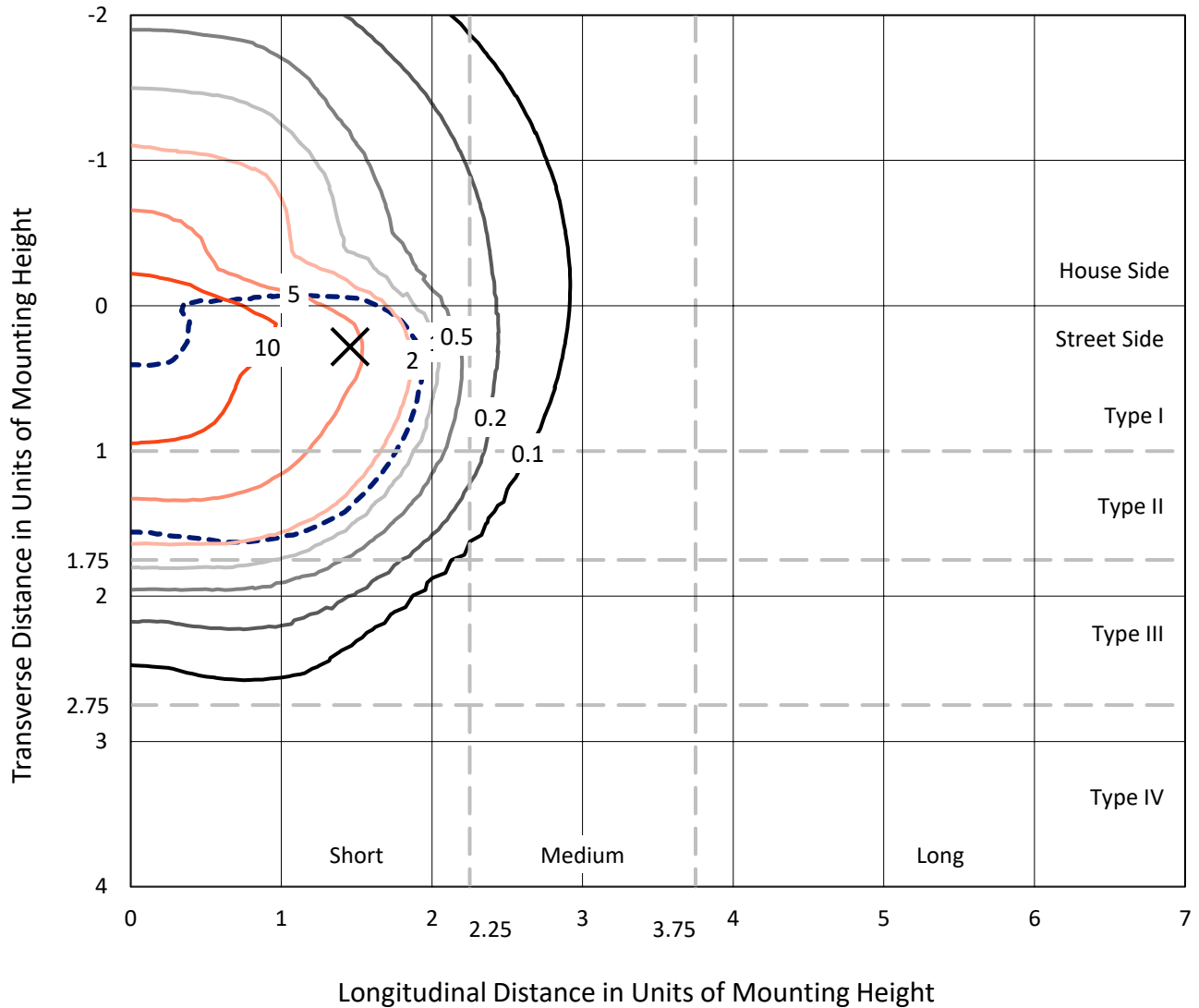
Input Watts (W): 325
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

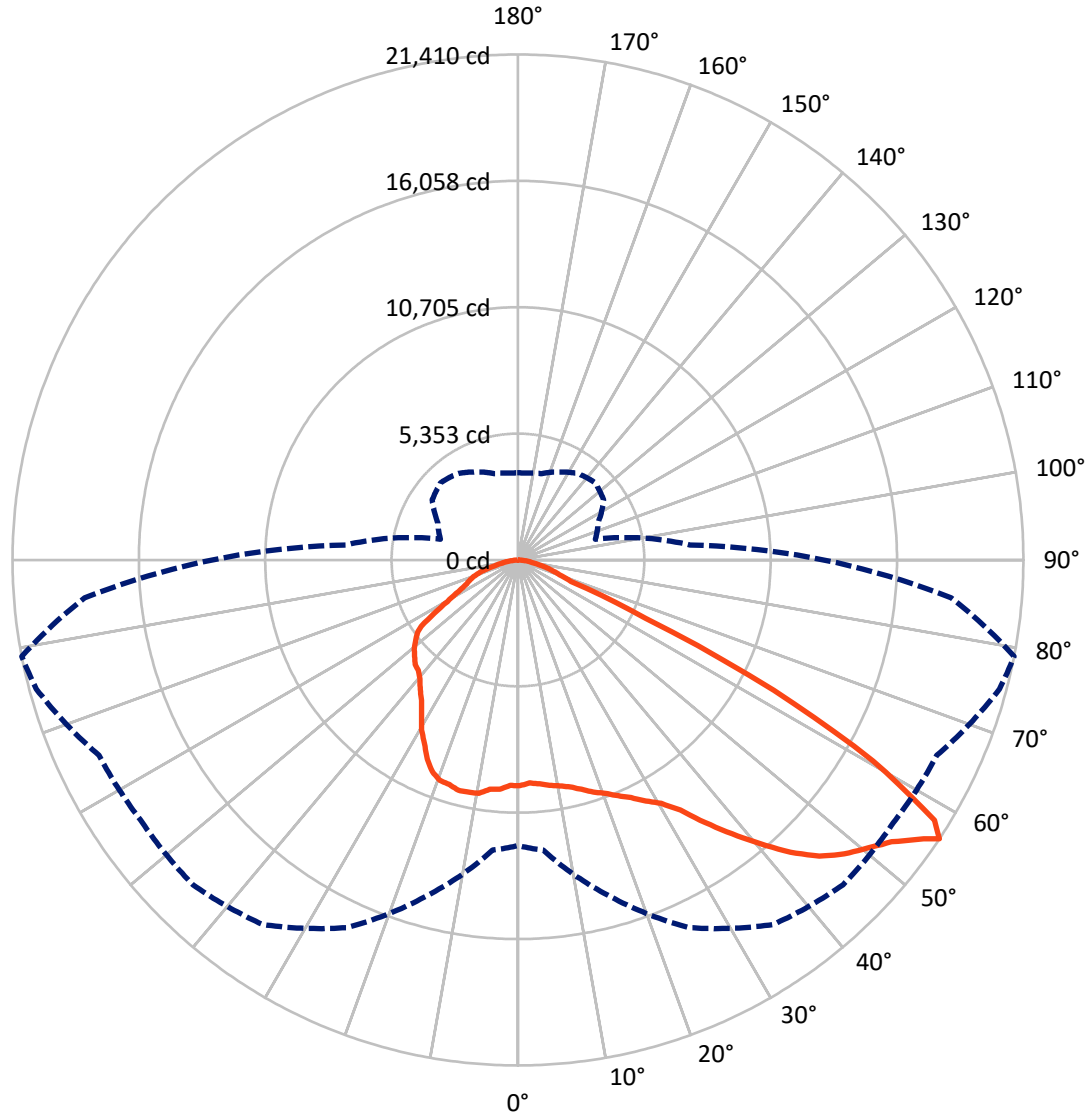
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.3 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	11034.7	0.0	11034.7
	% Fixture	29.5	0.0	29.5
Street Side	Lumens	26330.3	0.0	26330.3
	% Fixture	70.5	0.0	70.5
Total	Lumens	37365.0	0.0	37365.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	869.2	2.3
10°-20°	2378.8	6.4
20°-30°	4069.6	10.9
30°-40°	6237.2	16.7
40°-50°	8429.5	22.6
50°-60°	9681.6	25.9
60°-70°	4413.2	11.8
70°-80°	1088.1	2.9
80°-90°	197.7	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°	37365.0	100.0
0°-180°	37365.0	100.0

Coefficient of Utilization

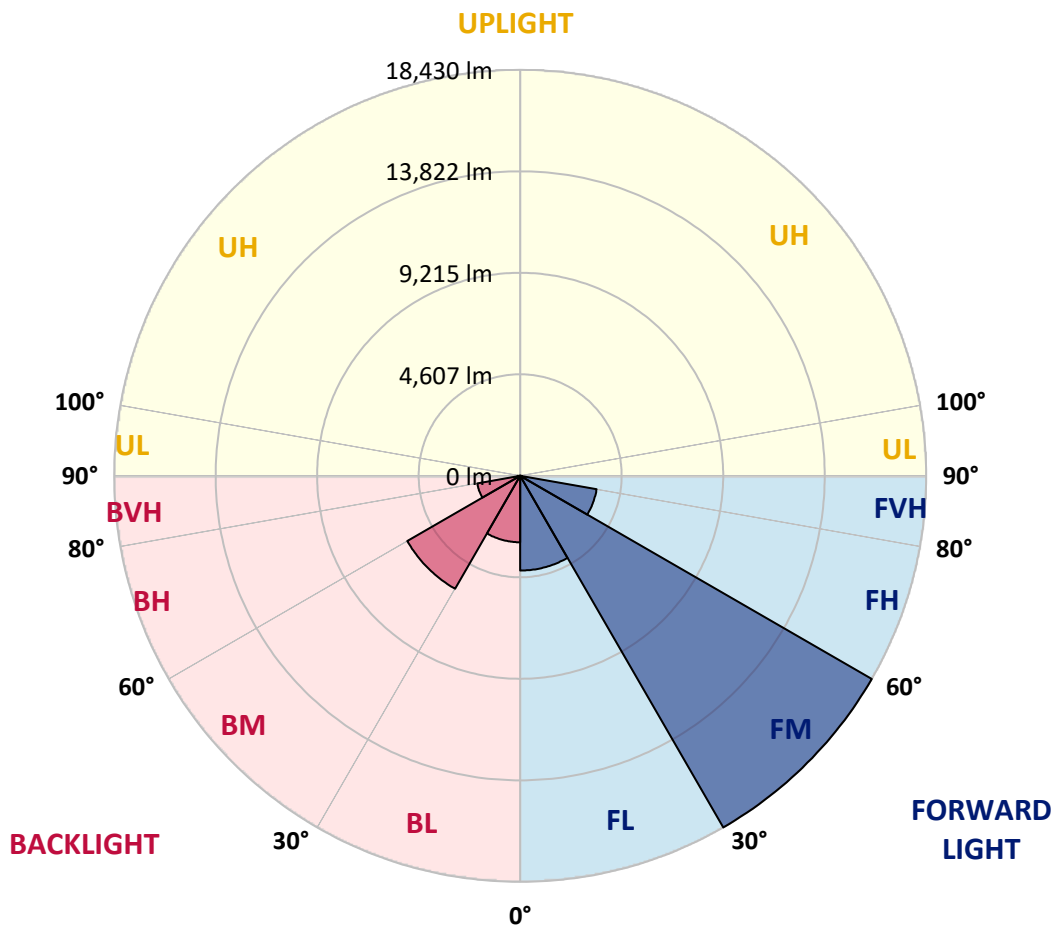


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4299.2	11.5			
FM (30°-60°)	18429.5	49.3			
FH (60°-80°)	3522.7	9.4			G2/5000
FVH (80°-90°)	79.0	0.2			G1/100
BL (0°-30°)	3018.5	8.1	B4/5000		
BM (30°-60°)	5918.9	15.8	B4/8500		
BH (60°-80°)	1978.6	5.3	B3/2500		G3/2500
BVH (80°-90°)	118.8	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°	9560.2	9560.2	9560.2	9560.2	9560.2	9560.2	9560.2	9560.2	9560.2	9560.2	9560.2
2.5°	9094.8	9071.5	9127.4	9169.3	9220.4	9285.6	9318.2	9336.8	9499.7	9457.8	9583.5
5°	8899.3	8838.8	8880.7	8913.3	9001.7	9080.8	9169.3	9308.9	9457.8	9523.0	9676.6
7.5°	8727.1	8694.5	8685.2	8708.5	8829.5	8931.9	9085.5	9290.3	9532.3	9639.3	9727.8
10°	8443.2	8396.6	8466.4	8620.0	8652.6	8866.7	9043.6	9336.8	9546.3	9732.4	9993.1
12.5°	8317.5	8270.9	8284.9	8373.3	8601.4	8806.2	9015.7	9346.1	9788.3	9862.8	10211.8
15°	8517.6	8471.1	8485.0	8461.8	8680.5	8787.6	9118.1	9532.3	9955.9	10081.5	10453.9
17.5°	8973.8	8978.4	8917.9	8866.7	8815.5	9043.6	9271.6	9644.0	10021.0	10337.5	10616.8
20°	9844.1	9690.5	9569.5	9281.0	9201.8	9299.6	9588.2	9946.5	10286.3	10547.0	10863.5
22.5°	10514.4	10528.3	10356.1	9881.4	9709.2	9751.1	9997.7	10291.0	10663.3	10849.5	11212.6
25°	11487.2	11389.4	11203.2	10826.2	10439.9	10472.5	10654.0	10919.3	11021.7	11152.0	11547.7
27.5°	12376.2	12404.1	12036.4	11682.6	11203.2	11110.2	11436.0	11482.5	11310.3	11557.0	11692.0
30°	13279.1	13255.9	13013.8	12599.6	12129.5	12148.1	12292.4	12064.3	11826.9	11961.9	12055.0
32.5°	14214.7	13949.4	13940.1	13567.7	13209.3	13037.1	12860.2	12971.9	12604.2	12632.2	12543.7
35°	14964.0	15001.3	14787.2	14521.9	14345.0	14042.5	13558.4	13758.5	13688.7	13656.1	13274.5
37.5°	15508.6	15364.3	15471.4	15382.9	15215.4	14838.4	14335.7	14526.5	14559.1	14717.3	14275.2
40°	15955.4	15894.9	16178.8	16225.4	16109.0	15294.5	14391.5	14959.4	15448.1	15792.5	15266.6
42.5°	16169.5	16299.9	16597.7	16956.1	16695.5	15825.1	14680.1	15289.8	16379.0	16923.6	16206.8
45°	16458.1	16290.5	16732.7	17389.0	17393.6	16271.9	14959.4	15736.7	17105.1	17896.3	16849.1
47.5°	16164.9	16248.7	16704.8	17537.9	17752.0	16742.0	15713.4	16369.7	17905.6	18608.5	17444.8
50°	15508.6	15676.2	16509.3	17375.0	18022.0	17240.1	16579.1	17053.9	18645.7	19181.0	17542.6
52.5°	14824.4	14917.5	16220.7	17500.7	18143.0	17882.4	17738.1	17998.7	19548.7	19827.9	17663.6
55°	12962.6	13404.8	15266.6	17444.8	18734.1	19041.3	18929.6	19311.3	20572.6	20851.9	18324.5
56°	12101.5	12334.3	14694.1	17184.2	18850.5	19464.9	19409.0	19581.2	21117.2	21410.4	18426.9
57.5°	10509.7	10528.3	12529.8	16029.9	18413.0	19590.5	19534.7	19669.7	21010.2	20810.0	17528.6
60°	6576.7	6865.3	8526.9	12329.6	15657.5	18175.6	18492.1	17407.6	17714.8	17291.3	13637.5
62.5°	3407.1	3365.2	4468.3	7209.7	10393.4	13013.8	13307.0	13255.9	12781.1	12162.1	8908.6
65°	1698.9	1708.2	2336.5	3570.0	5324.7	6814.1	7633.3	7721.7	6460.4	5943.7	4226.2
67.5°	1233.4	1280.0	1680.3	2182.9	2508.7	2806.6	3439.6	3374.5	2555.3	2429.6	2252.7
70°	958.8	1000.7	1363.8	1666.3	1512.7	1512.7	1647.7	1703.5	1819.9	1871.1	1931.6
72.5°	698.2	730.7	1042.6	1149.6	991.4	1065.9	1233.4	1363.8	1484.8	1503.4	1573.2
75°	479.4	507.3	684.2	633.0	595.8	735.4	903.0	1024.0	1112.4	1159.0	1200.8
77.5°	311.8	321.2	391.0	330.5	381.7	474.8	586.5	688.9	777.3	814.5	823.8
80°	139.6	153.6	167.6	209.4	265.3	339.8	418.9	502.7	558.5	572.5	600.4
82.5°	79.1	79.1	102.4	148.9	195.5	246.7	302.5	363.0	428.2	442.2	437.5
85°	41.9	41.9	60.5	88.4	121.0	144.3	139.6	144.3	153.6	176.9	172.2
87.5°	14.0	14.0	18.6	18.6	23.3	27.9	23.3	32.6	41.9	41.9	41.9
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°	9560.2	9560.2	9560.2	9560.2	9560.2	9560.2	9560.2	9560.2	9560.2	9560.2	9560.2
2.5°	9546.3	9588.2	9532.3	9653.3	9653.3	9630.0	9513.7	9550.9	9578.8	9578.8	9602.1
5°	9727.8	9713.8	9751.1	9606.8	9518.3	9485.8	9294.9	9201.8	9122.7	9118.1	9048.2
7.5°	9830.2	9792.9	9779.0	9671.9	9281.0	9043.6	8634.0	8396.6	8345.4	8163.9	8233.7
10°	9993.1	10062.9	9993.1	9411.3	8866.7	8322.1	7921.9	7554.2	7409.9	7293.5	7223.7
12.5°	10328.2	10295.6	9890.7	9104.1	8340.8	7693.8	7098.0	6711.7	6567.4	6465.0	6455.7
15°	10612.1	10449.2	9830.2	8620.0	7521.6	6832.7	6344.0	6069.4	6004.2	6013.5	6055.4
17.5°	10709.9	10598.2	9513.7	8117.3	6911.8	6102.0	5873.9	5832.0	5892.5	5962.3	5981.0
20°	10863.5	10686.6	9383.4	7433.1	6157.8	5645.8	5631.9	5780.8	5892.5	5994.9	6008.9
22.5°	11184.6	10737.8	8959.8	6786.2	5641.2	5510.9	5645.8	5771.5	5943.7	6027.5	5953.0
25°	11277.7	10626.1	8364.0	6008.9	5315.4	5427.1	5571.4	5743.6	5864.6	5911.1	5943.7
27.5°	11356.8	10453.9	7558.8	5492.2	5213.0	5422.4	5571.4	5715.7	5780.8	5822.7	5859.9
30°	11580.3	10402.7	6860.6	5147.8	5147.8	5329.3	5520.2	5557.4	5645.8	5697.0	5762.2
32.5°	11692.0	10048.9	6143.9	4929.1	5082.7	5375.9	5389.8	5459.7	5464.3	5506.2	5436.4
35°	11985.2	9797.6	5478.3	4770.8	5110.6	5329.3	5399.2	5357.3	5129.2	5017.5	5040.8
37.5°	12199.3	9671.9	4998.9	4752.2	5115.2	5380.5	5417.8	5101.3	4863.9	4677.7	4724.3
40°	12776.4	9360.1	4635.8	4719.6	5157.1	5436.4	5334.0	4989.6	4561.4	4370.5	4337.9
42.5°	13218.6	9136.7	4407.8	4682.4	5189.7	5515.5	5292.1	4766.1	4328.6	4151.8	4198.3
45°	13730.6	9085.5	4286.7	4691.7	5245.6	5557.4	5240.9	4593.9	4128.5	4058.7	4044.7
47.5°	13912.1	8717.8	4156.4	4612.6	5231.6	5543.4	5068.7	4463.6	4054.0	4063.3	4100.6
50°	13609.6	8340.8	4058.7	4449.6	5138.5	5417.8	4798.7	4291.4	4012.1	4128.5	4193.7
52.5°	13223.3	7954.4	3858.5	4230.9	4947.7	5222.3	4673.1	4282.1	3970.2	3933.0	3947.0
55°	13339.6	7637.9	3579.3	3933.0	4640.5	4859.2	4533.4	4193.7	3867.8	3728.2	3774.8
56°	12962.6	7312.1	3397.7	3746.8	4431.0	4626.5	4463.6	4114.5	3784.1	3691.0	3691.0
57.5°	11896.8	6218.3	3160.4	3448.9	3988.9	4221.6	4328.6	4068.0	3691.0	3528.1	3532.7
60°	8773.6	4421.7	2834.6	3039.4	3304.7	3490.8	3988.9	3937.7	3458.3	3346.5	3304.7
62.5°	5408.5	3230.2	2601.8	2681.0	2815.9	2969.5	3481.5	3565.3	3211.6	3090.5	3062.6
65°	3030.0	2471.5	2425.0	2457.5	2522.7	2601.8	2890.4	3076.6	2834.6	2648.4	2639.1
67.5°	2215.5	2210.9	2248.1	2276.0	2303.9	2303.9	2373.8	2448.2	2415.7	2266.7	2252.7
70°	1968.8	1982.8	2010.7	2015.4	2024.7	1992.1	1936.2	1913.0	1950.2	1857.1	1838.5
72.5°	1624.4	1670.9	1703.5	1708.2	1657.0	1615.1	1540.6	1461.5	1433.6	1415.0	1410.3
75°	1247.4	1280.0	1293.9	1289.3	1270.7	1210.2	1121.7	1042.6	991.4	935.5	963.5
77.5°	842.5	889.0	912.3	912.3	884.3	791.3	749.4	688.9	637.7	577.2	586.5
80°	591.1	623.7	660.9	656.3	609.7	563.2	502.7	446.8	404.9	358.4	353.7
82.5°	442.2	460.8	479.4	470.1	437.5	391.0	349.1	297.9	251.3	218.8	218.8
85°	158.3	172.2	209.4	218.8	237.4	237.4	200.1	167.6	135.0	111.7	111.7
87.5°	46.5	46.5	51.2	51.2	46.5	51.2	41.9	46.5	51.2	32.6	32.6
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)