

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: P532660

Luminaire Tested: **GALN-SA8A-735-U-T2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P532660
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-14)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA8A-735-U-T2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28854 lumens
Efficiency: N/A
Efficacy: 118.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

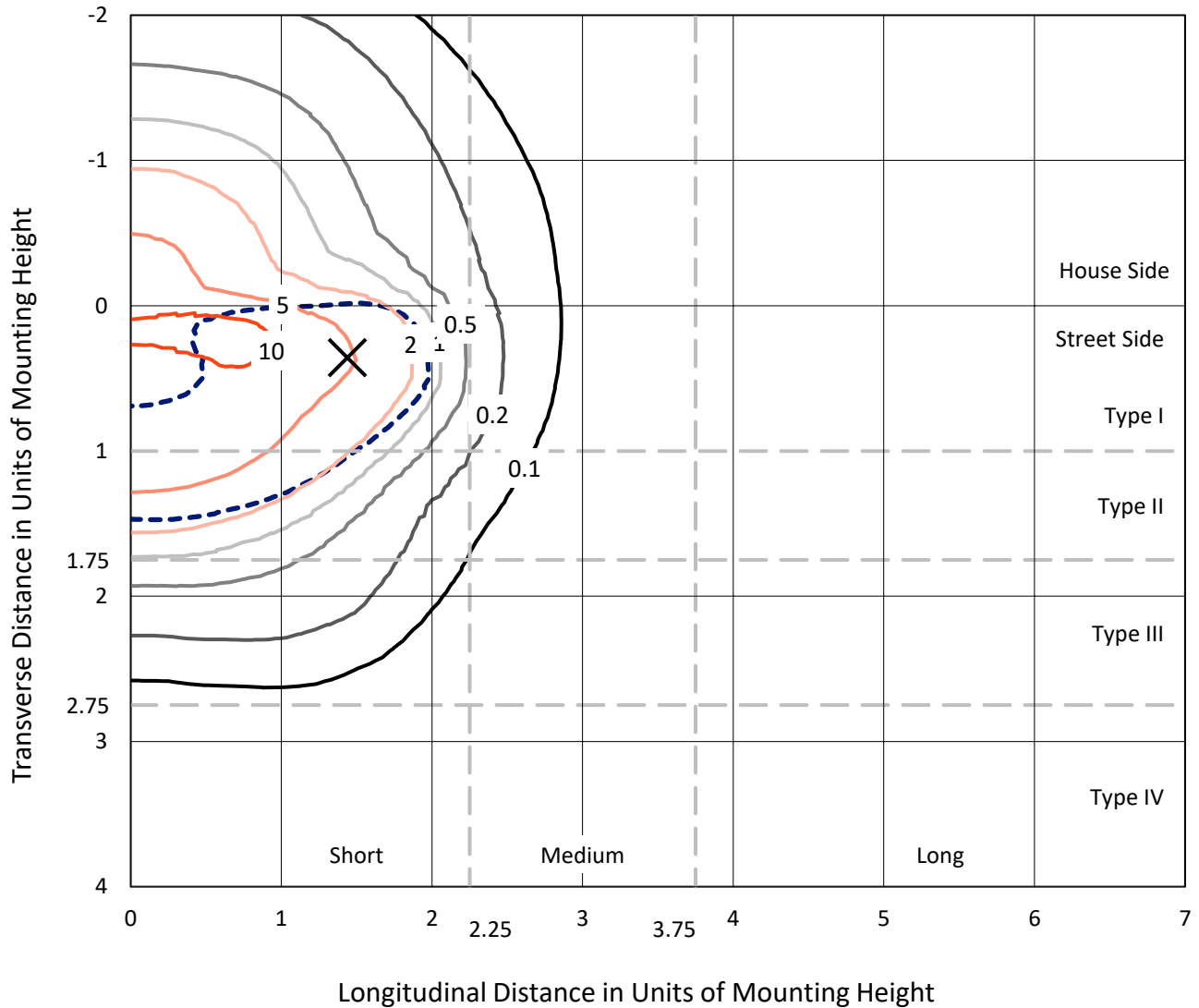
Input Watts (W): 244
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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 CATALOG NUMBER: GALN-SA8A-735-U-T2-GRSWH

Iso-Footcandle Lines of Horizontal Illumination

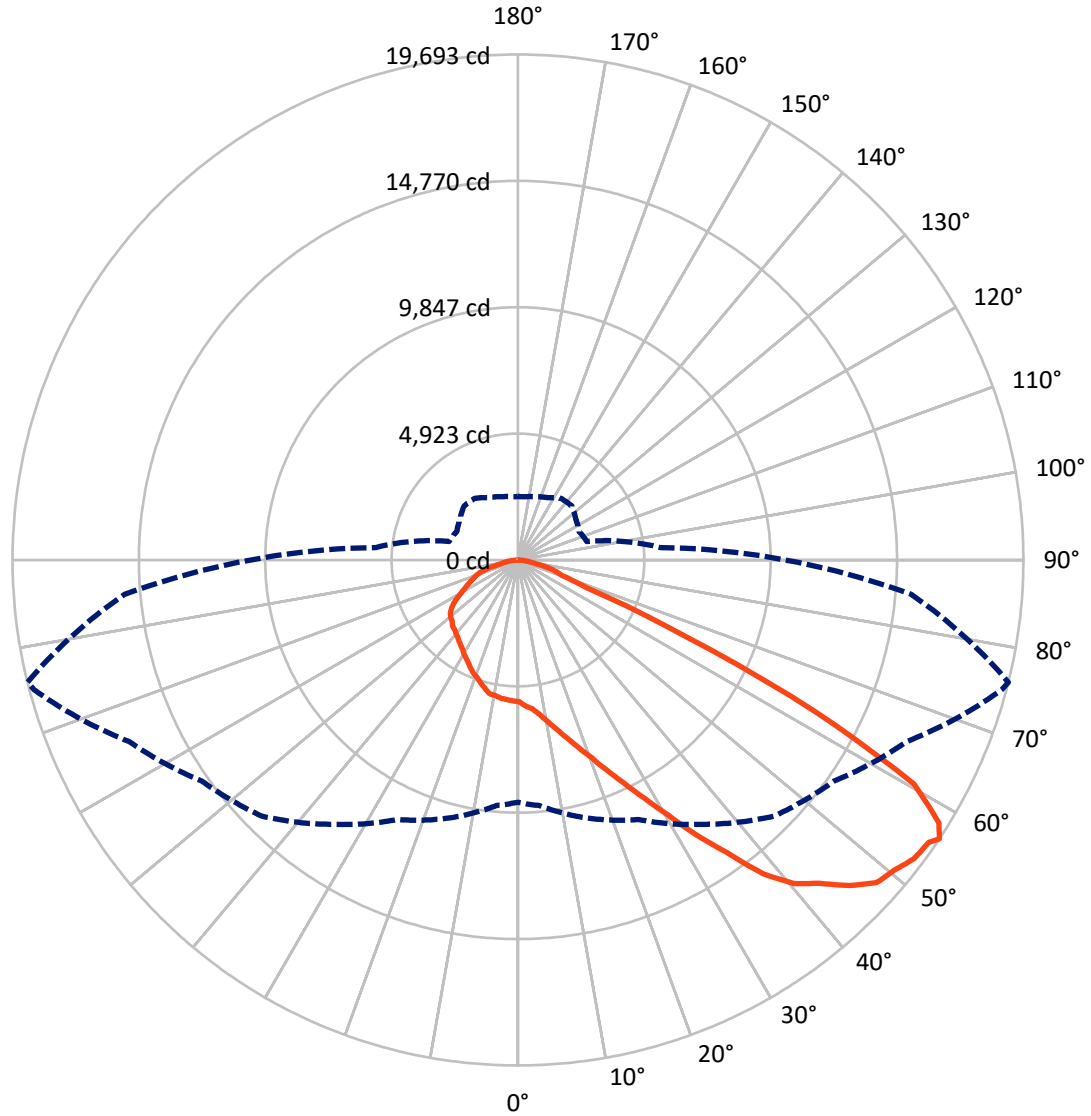
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.3 fc
 Type II - Short - N/A

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CATALOG NUMBER: GALN-SA8A-735-U-T2-GRSWH

Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7758.0	0.0	7758.0
	% Fixture	26.9	0.0	26.9
Street Side	Lumens	21096.0	0.0	21096.0
	% Fixture	73.1	0.0	73.1
Total	Lumens	28854.0	0.0	28854.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	547.5	1.9
10°-20°	1719.9	6.0
20°-30°	3007.8	10.4
30°-40°	4709.4	16.3
40°-50°	6850.8	23.7
50°-60°	7529.5	26.1
60°-70°	3360.8	11.6
70°-80°	970.7	3.4
80°-90°	157.5	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°	28854.0	100.0
0°-180°	28854.0	100.0

Coefficient of Utilization



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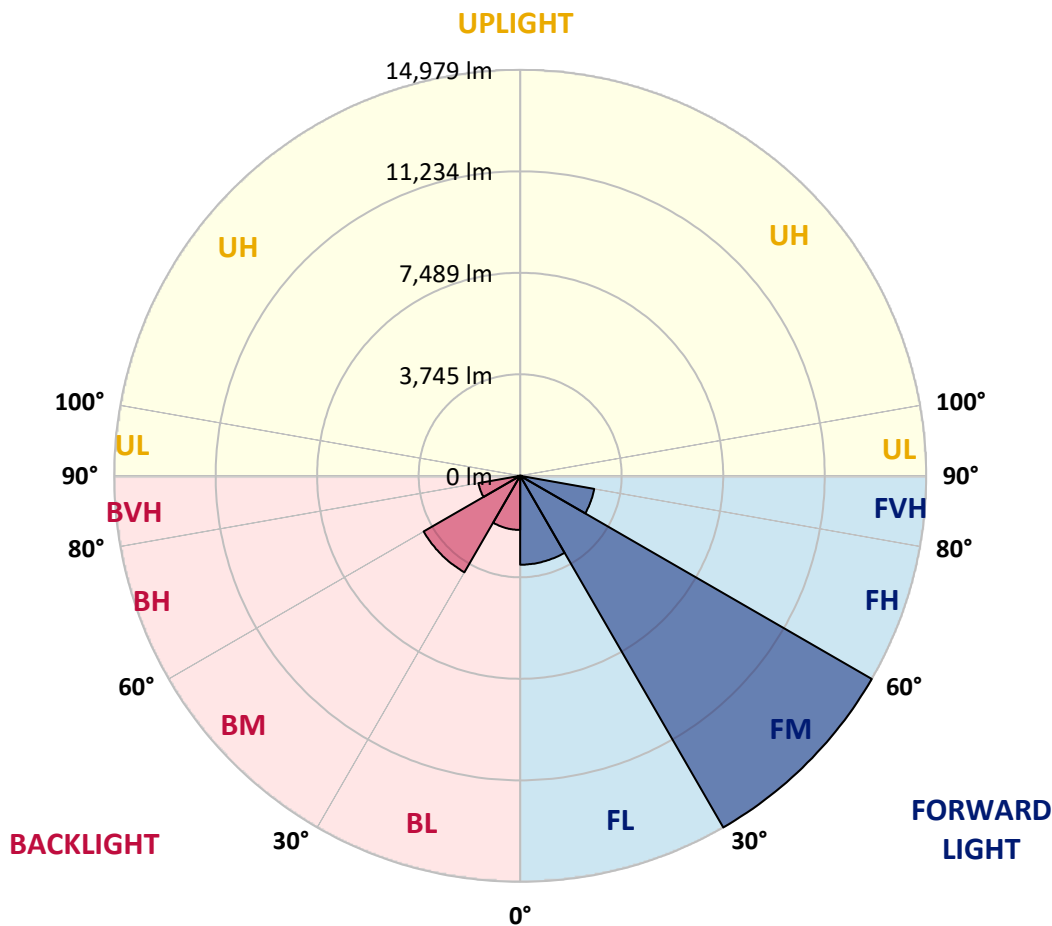
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3278.9	11.4			
FM (30°-60°)	14978.6	51.9			
FH (60°-80°)	2770.7	9.6			G2/5000
FVH (80°-90°)	67.8	0.2			G1/100
BL (0°-30°)	1996.3	6.9	B3/2500		
BM (30°-60°)	4111.1	14.2	B3/5000		
BH (60°-80°)	1560.9	5.4	B3/2500		G3/2500
BVH (80°-90°)	89.7	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	5520.8	5520.8	5520.8	5520.8	5520.8	5520.8	5520.8	5520.8	5520.8	5520.8	5520.8
2.5°	6081.9	5984.7	5977.2	5951.0	5966.0	5898.6	5827.6	5734.0	5636.8	5696.6	5554.5
5°	6508.3	6377.4	6429.8	6340.0	6351.2	6261.4	6115.6	6007.1	5887.4	5816.3	5715.3
7.5°	6657.9	6669.1	6706.6	6691.6	6616.8	6616.8	6519.5	6328.8	6119.3	6078.2	5909.8
10°	6859.9	6863.6	6822.5	6833.7	6938.5	6889.8	6803.8	6721.5	6452.2	6403.6	6104.3
12.5°	6931.0	6863.6	6931.0	6990.8	7114.3	7181.6	7162.9	7103.0	6815.0	6781.4	6343.7
15°	6942.2	6901.1	6957.2	7091.8	7200.3	7484.6	7626.7	7585.5	7204.0	7207.8	6613.0
17.5°	6889.8	6945.9	6968.4	7084.3	7334.9	7600.5	8012.0	8068.1	7753.9	7705.2	6953.4
20°	6960.9	6919.8	6949.7	7054.4	7387.3	7802.5	8341.1	8711.4	8270.0	8236.4	7305.0
22.5°	7233.9	7177.8	7170.4	7237.7	7477.1	7907.2	8689.0	9354.8	8898.4	8917.1	7742.6
25°	7447.2	7477.1	7450.9	7447.2	7596.8	8064.3	9149.0	10121.5	9751.2	9642.8	8258.8
27.5°	7813.7	7884.8	7832.4	7903.5	7869.8	8300.0	9478.2	10970.6	10671.4	10525.5	8726.4
30°	8322.4	8359.8	8311.2	8311.2	8210.2	8629.1	9777.4	11857.1	11733.7	11535.4	9276.2
32.5°	8991.9	9048.0	8950.8	8894.7	8879.7	9119.1	10316.0	12732.3	12941.8	12773.5	10005.6
35°	9878.4	9844.8	9728.8	9676.4	9474.5	9870.9	11116.5	13738.5	14288.4	13989.1	10888.3
37.5°	10660.2	10607.8	10600.3	10308.6	10357.2	10682.6	11797.2	14501.6	15593.8	15507.7	11819.7
40°	11389.5	11438.2	11516.7	11352.1	11277.3	11636.4	12590.2	15085.1	16607.4	16573.7	12537.8
42.5°	12171.3	12126.4	12264.8	12126.4	12014.2	12522.9	13450.5	15489.0	17497.6	17220.8	13289.7
45°	13304.6	13162.5	13211.1	13222.3	13140.1	13327.1	13805.8	15780.8	18122.3	18092.4	13839.5
47.5°	14251.0	14254.7	14172.4	14108.8	13858.2	14045.2	14202.3	15964.1	18840.4	18791.8	14052.7
50°	14602.6	14553.9	14793.3	14931.7	14946.7	14565.1	14512.8	16065.1	19218.2	19005.0	14265.9
52.5°	13338.3	13383.2	13761.0	14583.9	15058.9	15100.0	14875.6	16274.5	19371.6	19326.7	14438.0
55°	10735.0	10951.9	11572.8	12522.9	13648.7	14886.8	15268.3	16491.5	19453.9	19416.5	15201.0
56°	9437.0	9605.4	10413.3	11157.6	12571.5	14112.6	15021.5	16723.4	19517.4	19693.2	15380.6
57.5°	7596.8	7791.3	8371.0	9216.4	10884.6	12638.8	14340.7	16439.1	19270.6	19337.9	15511.5
60°	4750.3	4769.0	5464.7	6022.1	7196.5	8909.7	10944.4	14303.3	17834.3	17737.0	13933.0
62.5°	3115.8	3119.5	3751.6	4208.0	4742.8	5135.6	6441.0	9485.7	13158.8	12986.7	9919.6
65°	2188.1	2236.8	2726.8	3336.4	3553.4	3347.7	3306.5	5000.9	7349.9	7103.0	5330.1
67.5°	1600.9	1604.6	2038.5	2693.1	3007.3	2547.2	2068.4	2442.5	2910.0	2902.6	2468.7
70°	1058.5	1103.4	1436.3	2012.3	2371.4	2046.0	1690.7	1746.8	1851.5	1851.5	1836.5
72.5°	617.2	658.3	879.0	1275.5	1331.6	1279.2	1339.1	1496.2	1563.5	1559.8	1541.0
75°	351.6	370.3	418.9	531.1	662.1	781.7	983.7	1133.3	1200.7	1241.8	1193.2
77.5°	205.7	216.9	246.9	303.0	344.1	422.7	534.9	639.6	729.4	718.2	725.6
80°	108.5	108.5	138.4	179.5	239.4	299.2	355.3	415.2	463.8	475.0	486.3
82.5°	63.6	67.3	89.8	130.9	172.1	213.2	273.0	314.2	359.1	362.8	370.3
85°	33.7	37.4	56.1	86.0	116.0	130.9	134.7	127.2	138.4	130.9	149.6
87.5°	11.2	11.2	18.7	15.0	15.0	18.7	22.4	22.4	29.9	29.9	29.9
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°	5520.8	5520.8	5520.8	5520.8	5520.8	5520.8	5520.8	5520.8	5520.8	5520.8	5520.8
2.5°	5550.8	5550.8	5487.2	5367.5	5348.8	5300.2	5255.3	5251.5	5217.9	5187.9	5173.0
5°	5655.5	5539.5	5446.0	5337.6	5210.4	5150.5	5083.2	5008.4	4978.5	5008.4	5004.7
7.5°	5775.2	5677.9	5397.4	5195.4	5049.6	4989.7	4914.9	4836.3	4843.8	4843.8	4791.5
10°	5891.1	5760.2	5311.4	5053.3	4840.1	4795.2	4754.1	4784.0	4821.4	4828.9	4795.2
12.5°	6085.6	5790.2	5270.2	4911.2	4776.5	4679.3	4705.4	4787.7	4866.3	4843.8	4870.0
15°	6231.5	5816.3	5083.2	4765.3	4597.0	4641.8	4735.4	4791.5	4922.4	4907.4	4933.6
17.5°	6373.7	5831.3	4899.9	4570.8	4499.7	4623.1	4694.2	4855.0	4896.2	4986.0	5019.6
20°	6665.4	5861.2	4712.9	4451.1	4428.6	4570.8	4694.2	4769.0	4858.8	4937.3	4937.3
22.5°	6815.0	5846.3	4589.5	4294.0	4365.1	4454.8	4567.0	4694.2	4694.2	4769.0	4772.8
25°	7002.0	5786.4	4395.0	4219.2	4271.5	4357.6	4484.7	4439.9	4488.5	4488.5	4548.3
27.5°	7215.2	5659.2	4226.7	4084.5	4189.3	4282.8	4301.5	4271.5	4215.4	4208.0	4185.5
30°	7387.3	5502.1	4103.2	4039.6	4125.7	4178.0	4118.2	4054.6	3957.4	3949.9	3897.5
32.5°	7623.0	5307.6	3949.9	3927.4	4024.7	4028.4	4009.7	3912.5	3770.3	3710.5	3650.6
35°	8019.4	5195.4	3833.9	3867.6	3897.5	3886.3	3852.6	3747.9	3605.8	3579.6	3557.1
37.5°	8311.2	5113.1	3714.2	3755.4	3781.6	3796.5	3695.5	3579.6	3583.3	3530.9	3516.0
40°	8640.3	5060.8	3617.0	3635.7	3639.4	3688.0	3564.6	3508.5	3534.7	3501.0	3523.5
42.5°	9063.0	5075.7	3516.0	3501.0	3572.1	3553.4	3493.5	3418.7	3433.7	3332.7	3347.7
45°	9287.4	5176.7	3456.1	3388.8	3467.4	3463.6	3385.1	3314.0	3224.2	3029.7	3037.2
47.5°	9437.0	5202.9	3314.0	3269.1	3351.4	3400.0	3310.3	3145.7	3018.5	2880.1	2846.5
50°	9590.4	5251.5	3246.7	3153.2	3186.8	3302.8	3190.6	3033.5	2910.0	2786.6	2805.3
52.5°	9725.1	5345.0	3115.8	2977.4	3037.2	3164.4	3104.5	2913.8	2779.1	2678.1	2648.2
55°	10323.5	5554.5	2895.1	2715.5	2857.7	3018.5	2984.8	2752.9	2607.1	2554.7	2547.2
56°	10417.0	5562.0	2779.1	2625.8	2756.7	2969.9	2928.7	2681.9	2551.0	2468.7	2472.4
57.5°	10432.0	5472.2	2614.5	2543.5	2655.7	2898.8	2846.5	2625.8	2446.2	2371.4	2349.0
60°	9179.0	4271.5	2408.8	2363.9	2494.9	2681.9	2663.2	2472.4	2270.4	2184.4	2225.5
62.5°	6257.7	3130.7	2248.0	2240.5	2307.8	2491.1	2442.5	2270.4	2102.1	2046.0	2019.8
65°	3643.2	2375.2	2090.9	2061.0	2117.1	2214.3	2248.0	2068.4	1892.6	1855.2	1844.0
67.5°	2150.7	1963.7	1888.9	1840.3	1821.6	1881.4	1907.6	1802.9	1627.1	1574.7	1619.6
70°	1799.1	1746.8	1750.5	1668.2	1623.3	1582.2	1559.8	1466.2	1320.4	1253.0	1234.3
72.5°	1552.3	1529.8	1514.9	1440.1	1398.9	1305.4	1208.2	1114.6	1006.2	950.1	953.8
75°	1185.7	1178.2	1185.7	1148.3	1077.2	1002.4	912.7	793.0	710.7	639.6	654.6
77.5°	706.9	729.4	740.6	725.6	695.7	628.4	572.3	493.7	415.2	359.1	351.6
80°	486.3	505.0	523.7	505.0	475.0	426.4	366.6	306.7	250.6	220.7	213.2
82.5°	370.3	389.0	400.2	381.5	344.1	291.8	250.6	209.5	164.6	134.7	127.2
85°	134.7	153.4	149.6	179.5	194.5	187.0	160.8	123.4	93.5	67.3	63.6
87.5°	37.4	33.7	37.4	37.4	37.4	33.7	29.9	29.9	29.9	18.7	15.0
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)