

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: P646999

Luminaire Tested: **GALN-SA6C-835-U-SL3-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P646999
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-SA6C-835-U-SL3-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 3500K, 1050mA 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: 27615.6 lumens
Efficiency: N/A
Efficacy: 86.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

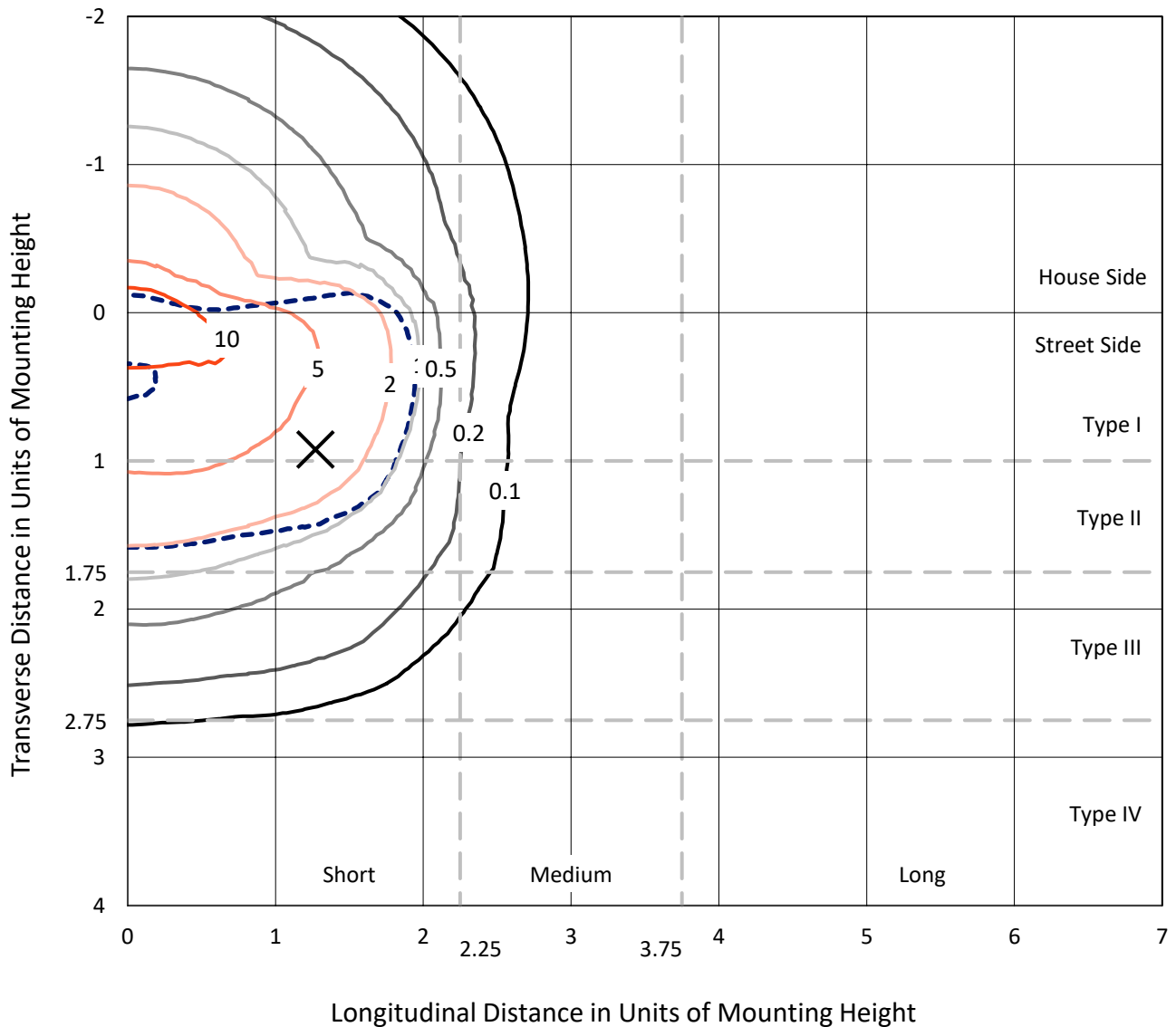
Input Watts (W): 321
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

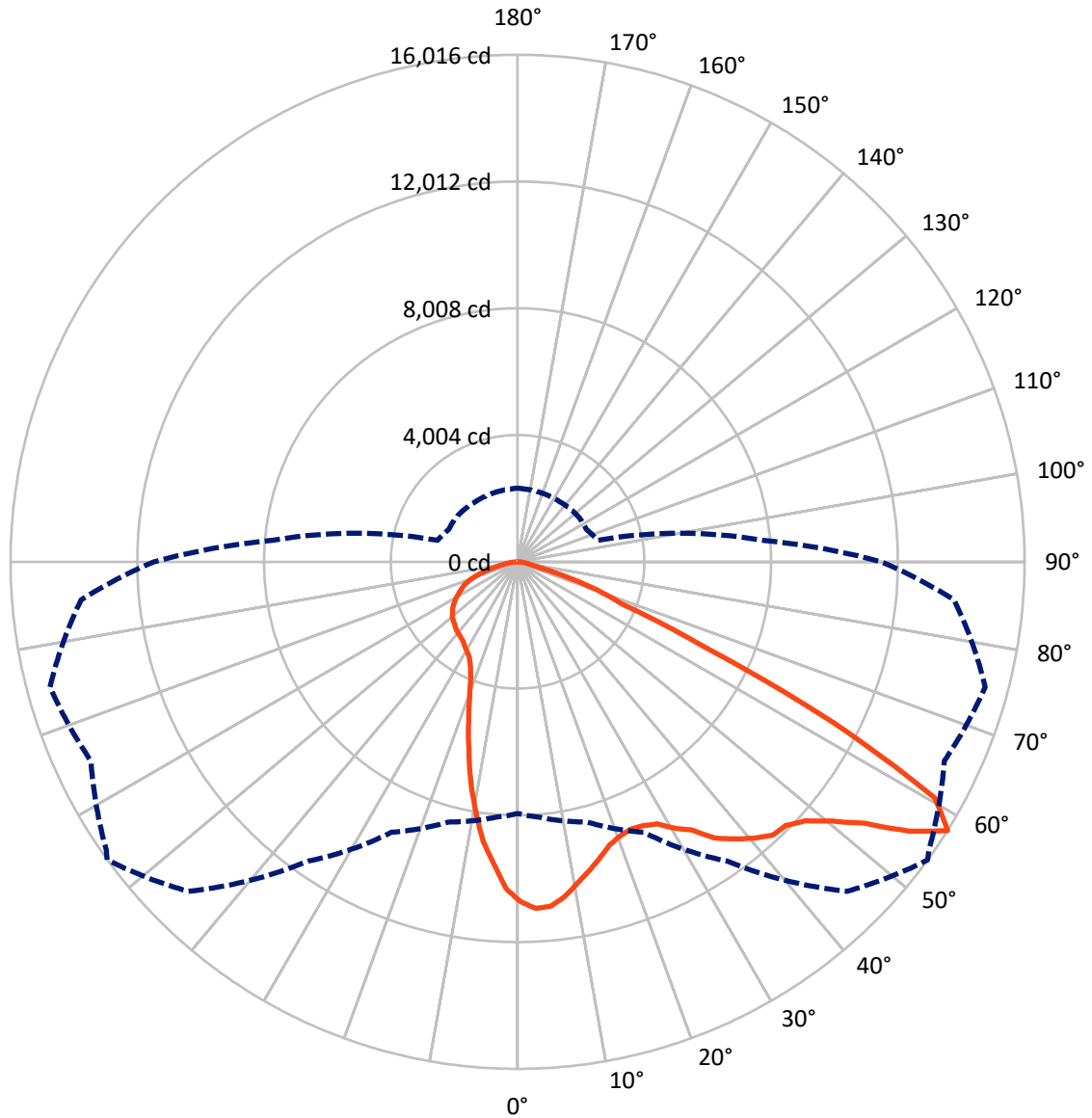
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.2 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	7640.0	0.0	7640.0
	% Fixture	27.7	0.0	27.7
Street Side	Lumens	19975.6	0.0	19975.6
	% Fixture	72.3	0.0	72.3
Total	Lumens	27615.6	0.0	27615.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	925.7	3.4
10°-20°	2143.3	7.8
20°-30°	3011.4	10.9
30°-40°	4209.9	15.2
40°-50°	5699.5	20.6
50°-60°	6942.2	25.1
60°-70°	3615.8	13.1
70°-80°	926.5	3.4
80°-90°	141.3	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°	27615.6	100.0
0°-180°	27615.6	100.0



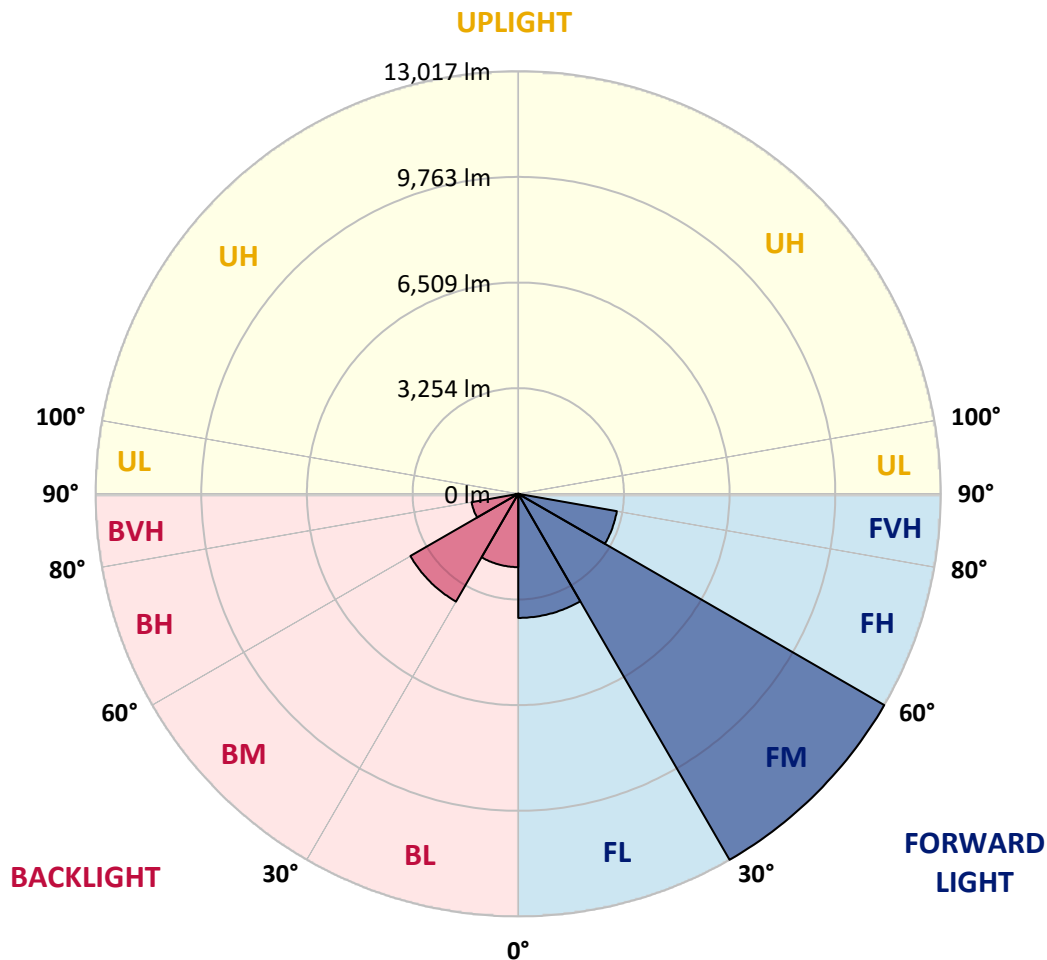
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3822.4	13.8			
FM (30°-60°)	13017.2	47.1			
FH (60°-80°)	3082.7	11.2			G2/5000
FVH (80°-90°)	53.4	0.2			G1/100
BL (0°-30°)	2258.0	8.2	B3/2500		
BM (30°-60°)	3834.5	13.9	B3/5000		
BH (60°-80°)	1459.6	5.3	B3/2500		G3/2500
BVH (80°-90°)	87.9	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°	54°	55°	65°	75°	85°
0°	10733.9	10733.9	10733.9	10733.9	10733.9	10733.9	10733.9	10733.9	10733.9	10733.9	10733.9
2.5°	11039.1	10996.5	11003.7	11060.4	10989.5	10961.1	10961.1	10822.6	10833.3	10737.4	10712.6
5°	10783.6	10684.2	10751.6	10836.8	10851.0	10879.4	10925.6	10890.0	10790.7	10687.7	10520.9
7.5°	10116.3	10205.0	10229.8	10290.2	10418.0	10535.1	10680.7	10581.2	10577.7	10474.7	10375.4
10°	9530.6	9477.4	9612.2	9701.0	9914.0	10109.2	10332.8	10322.1	10375.4	10258.2	10087.9
12.5°	8948.4	8905.8	8969.7	9172.1	9470.2	9754.2	10020.4	9921.0	10205.0	10183.7	9818.1
15°	8330.8	8362.8	8455.1	8643.2	9033.6	9374.4	9711.6	9715.2	9967.2	10052.4	9562.5
17.5°	7897.8	7862.3	7979.4	8259.9	8607.7	9015.9	9399.2	9477.4	9864.2	9914.0	9484.4
20°	7574.7	7624.5	7777.1	7919.1	8320.2	8813.5	9246.6	9275.0	9842.9	9977.8	9360.2
22.5°	7496.7	7468.3	7518.0	7748.7	8078.8	8614.8	9164.9	9271.4	9839.4	9956.5	9125.9
25°	7415.0	7507.3	7503.8	7734.5	7975.9	8455.1	9232.4	9349.6	10027.5	10066.6	9157.9
27.5°	7599.6	7589.0	7688.4	7706.1	8004.3	8497.7	9374.4	9463.1	10339.9	10308.0	9182.7
30°	7784.2	7731.0	7791.3	8000.7	8139.1	8742.6	9764.9	9757.7	10744.6	10723.3	9260.8
32.5°	8011.3	7986.5	8025.6	8210.1	8444.4	9069.1	10095.0	10304.4	11156.3	11291.2	9530.6
35°	8053.9	8156.9	8249.2	8497.7	8831.3	9598.0	10716.1	10890.0	11631.9	12054.3	10045.3
37.5°	8323.8	8362.8	8579.3	9019.5	9324.7	10304.4	11110.1	11220.2	12064.9	12544.1	10588.4
40°	8611.3	8657.4	8983.9	9445.4	9864.2	10765.9	11479.2	11514.8	12203.4	12920.4	10943.3
42.5°	9001.7	9044.3	9367.3	9945.9	10506.7	11159.9	11805.8	11844.9	12192.7	13353.4	11507.7
45°	9406.3	9509.3	9889.1	10545.8	11049.8	11621.3	11880.4	12040.1	12292.2	13740.3	11965.6
47.5°	9974.2	10070.1	10382.5	11025.0	11614.2	12025.9	12224.7	12380.9	12530.0	14077.6	12260.2
50°	10577.7	10595.5	10975.2	11557.4	11990.4	12483.8	12867.2	12920.4	12842.3	14468.0	12760.7
52.5°	11021.4	11078.2	11372.8	11940.8	12586.7	13193.7	13719.0	13775.9	13623.3	14613.5	12931.1
55°	10286.7	10254.7	10733.9	11489.9	12987.9	14251.5	15014.7	15057.2	14191.2	15064.4	13488.3
57.5°	7951.1	8103.7	8511.8	9424.1	11539.6	14720.0	16015.6	15863.0	14872.7	15291.5	13843.3
60°	5778.7	5743.2	6016.5	6627.0	8696.5	12686.2	15142.4	15298.6	14315.4	13782.9	11415.4
62.5°	4706.7	4657.0	4678.3	4699.6	5611.8	8419.6	11209.5	11206.0	11025.0	9906.8	7699.0
65°	3762.5	3879.7	3890.3	4050.1	4167.2	5029.8	6495.7	6843.6	5959.7	4887.7	3546.1
67.5°	2836.1	2793.5	2935.5	3503.5	3723.5	3631.2	3546.1	3585.0	2548.6	1838.6	1732.2
70°	1671.9	1654.1	1824.5	2442.1	3066.9	2885.8	2672.8	2676.4	1749.9	1284.9	1430.5
72.5°	915.8	912.3	947.7	1238.8	1742.8	1810.3	1604.4	1654.1	1043.6	1040.1	1118.1
75°	511.1	500.5	489.8	546.6	628.3	663.7	678.0	685.0	717.0	802.2	834.1
77.5°	188.2	181.0	181.0	209.5	266.2	333.6	422.4	429.5	507.6	582.2	614.1
80°	63.9	71.0	95.8	131.3	177.5	237.8	287.5	294.6	358.5	408.2	418.8
82.5°	39.1	42.6	63.9	92.3	127.8	166.9	213.0	216.5	266.2	298.2	312.3
85°	17.8	21.3	35.5	56.8	81.7	110.0	113.6	113.6	110.0	113.6	106.5
87.5°	0.0	0.0	7.1	7.1	7.1	10.6	14.2	10.6	17.8	21.3	21.3
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°	10733.9	10733.9	10733.9	10733.9	10733.9	10733.9	10733.9	10733.9	10733.9	10733.9	10733.9
2.5°	10638.1	10599.0	10478.3	10371.9	10339.9	10197.9	9988.5	10013.3	9860.7	9931.7	9857.1
5°	10492.5	10361.2	10052.4	9921.0	9576.7	9420.5	9314.0	9047.8	8923.6	8898.7	8792.2
7.5°	10119.8	10038.1	9651.3	9296.3	8930.7	8618.3	8217.3	7943.9	7748.7	7695.5	7539.3
10°	9825.2	9644.1	9108.2	8568.7	8046.9	7503.8	6982.0	6573.8	6375.0	6144.3	6066.2
12.5°	9534.1	9260.8	8536.7	7844.6	7170.1	6485.0	5853.2	5356.3	4923.3	4820.3	4784.8
15°	9353.1	8877.4	8025.6	7191.4	6233.0	5338.6	4706.7	4380.2	4114.0	4003.9	4082.0
17.5°	9115.3	8561.6	7535.7	6424.7	5370.5	4547.0	4018.1	3815.8	3720.0	3730.6	3698.7
20°	8817.1	8263.4	6893.2	5729.0	4600.2	3943.6	3641.9	3567.3	3581.5	3606.3	3595.7
22.5°	8604.2	7901.3	6428.3	5019.1	3975.5	3609.9	3485.7	3432.4	3478.6	3499.9	3482.2
25°	8440.9	7592.5	5863.9	4390.8	3613.5	3421.8	3365.0	3361.4	3432.4	3460.9	3443.1
27.5°	8291.8	7305.0	5303.0	3911.6	3372.1	3276.2	3258.5	3301.1	3347.2	3375.7	3400.5
30°	8203.0	7084.9	4777.7	3510.5	3251.4	3205.3	3173.3	3212.3	3237.2	3265.6	3251.4
32.5°	8288.2	6928.8	4270.1	3283.4	3152.0	3105.8	3148.4	3123.6	3166.2	3191.0	3152.0
35°	8554.4	6790.3	3908.0	3162.7	3038.4	3056.2	3063.3	3052.6	3070.4	3049.1	3095.2
37.5°	8817.1	6740.6	3574.4	3059.7	2985.2	2985.2	2978.1	2956.8	2992.3	2985.2	3006.5
40°	9150.8	6772.6	3290.5	2949.7	2935.5	2928.4	2900.0	2896.5	2882.2	2885.8	2892.9
42.5°	9441.8	6843.6	3127.1	2878.7	2889.3	2903.5	2850.3	2807.7	2825.5	2790.0	2790.0
45°	9750.6	6907.5	2981.7	2829.0	2818.3	2814.8	2772.2	2747.4	2733.1	2736.7	2768.7
47.5°	10236.9	6999.7	2871.6	2761.6	2768.7	2715.4	2704.8	2672.8	2687.0	2708.3	2711.8
50°	10581.2	7195.0	2786.4	2683.5	2708.3	2672.8	2609.0	2594.7	2594.7	2630.3	2623.1
52.5°	10822.6	7468.3	2704.8	2598.3	2609.0	2580.5	2559.2	2527.3	2506.0	2555.7	2580.5
55°	11560.9	7922.6	2683.5	2527.3	2523.8	2495.3	2456.3	2424.3	2413.7	2420.8	2470.5
57.5°	11489.9	7780.7	2616.0	2403.0	2396.0	2356.9	2317.8	2307.2	2303.7	2310.8	2325.0
60°	9328.3	5746.8	2335.6	2261.1	2250.4	2243.3	2204.3	2161.7	2140.4	2161.7	2143.9
62.5°	6172.7	3847.7	2058.7	2090.7	2097.8	2080.0	2016.1	1973.6	1980.7	2005.5	1966.4
65°	3031.3	2261.1	1867.1	1952.3	1959.4	1909.7	1849.3	1799.6	1774.7	1796.0	1778.3
67.5°	1732.2	1728.6	1710.9	1799.6	1796.0	1746.4	1650.6	1608.0	1565.4	1572.4	1561.8
70°	1469.5	1497.9	1533.4	1586.7	1583.1	1526.3	1412.7	1380.7	1320.5	1313.3	1295.6
72.5°	1157.2	1206.8	1284.9	1324.0	1292.0	1221.1	1146.5	1093.3	1040.1	1008.1	1018.8
75°	859.0	930.0	972.6	997.5	947.7	908.7	848.4	784.5	720.6	692.2	681.5
77.5°	624.8	646.1	685.0	702.8	670.9	631.8	596.3	532.4	472.1	433.1	422.4
80°	436.6	450.8	479.2	479.2	479.2	461.4	415.3	351.4	312.3	276.9	269.7
82.5°	305.3	319.5	347.9	333.6	330.1	308.8	280.4	230.8	188.2	163.3	156.2
85°	106.5	117.1	142.0	170.4	181.0	177.5	159.7	127.8	99.4	81.7	74.5
87.5°	24.8	24.8	28.4	24.8	24.8	28.4	24.8	24.8	24.8	17.8	14.2
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)