

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: P648150

Luminaire Tested: **GALN-SA9A-835-U-SL2-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P648150  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-18)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA9A-835-U-SL2-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 80 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL  
LIGHT ELIMINATOR OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 27513.8 lumens  
Efficiency: N/A  
Efficacy: 100.4 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

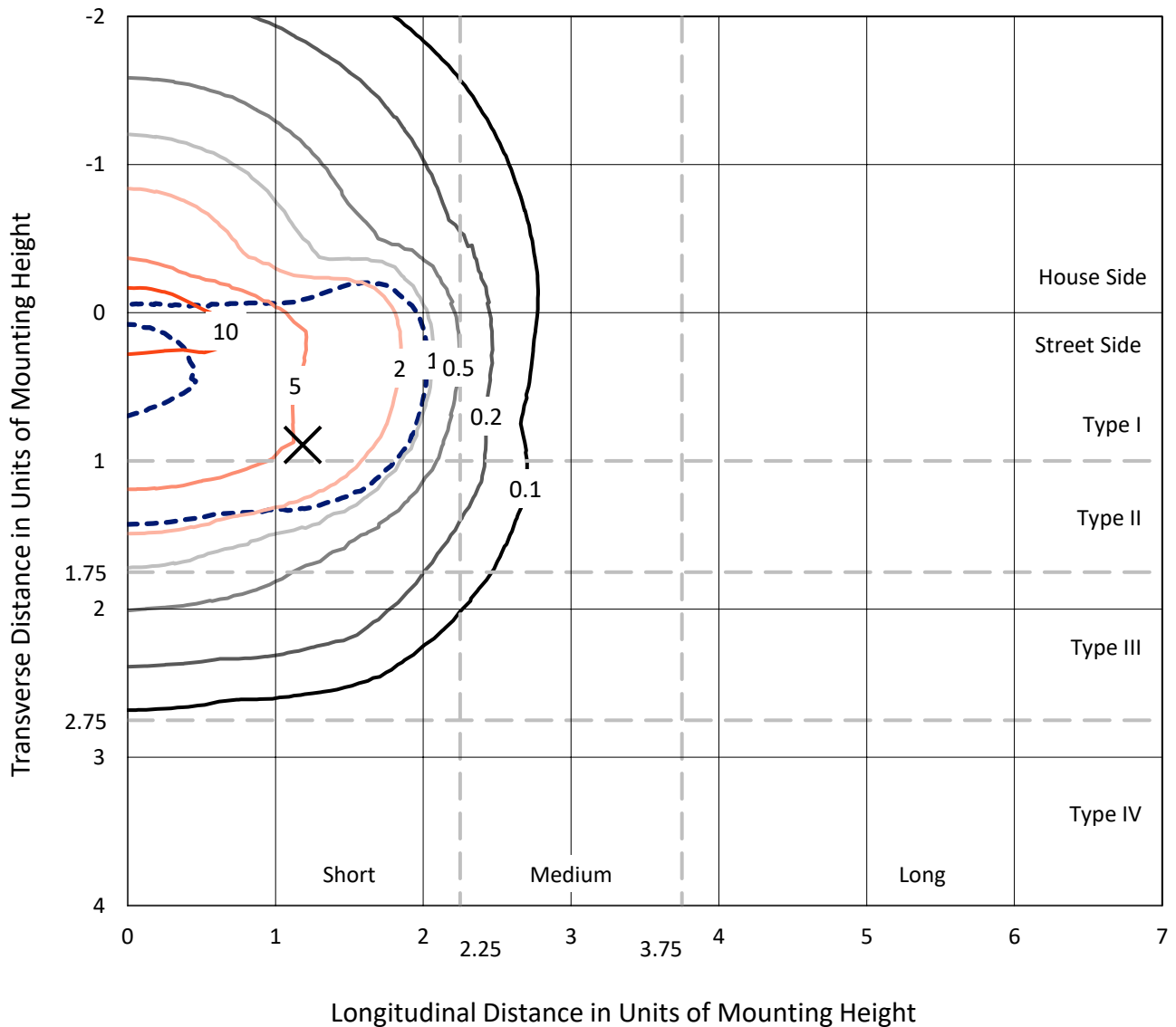
Input Watts (W): 274  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

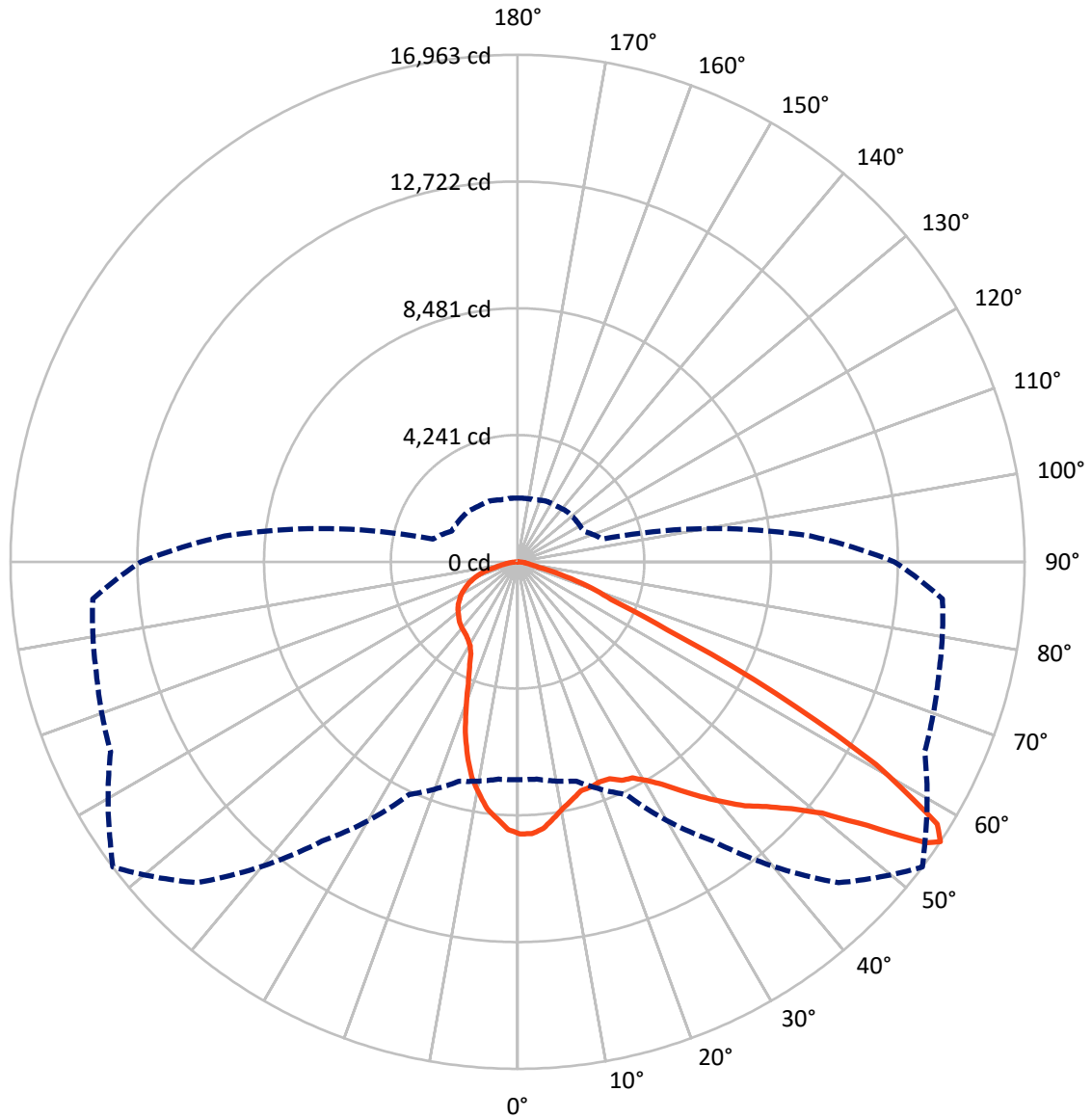
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.6 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral      - - - Horizontal Cone Through 56-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	8029.1	0.0	8029.1
	% Fixture	29.2	0.0	29.2
<b>Street Side</b>	Lumens	19484.7	0.0	19484.7
	% Fixture	70.8	0.0	70.8
<b>Total</b>	Lumens	27513.8	0.0	27513.8
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	805.8	2.9
10°-20°	2012.6	7.3
20°-30°	2967.8	10.8
30°-40°	4240.5	15.4
40°-50°	5836.4	21.2
50°-60°	6897.1	25.1
60°-70°	3675.7	13.4
70°-80°	932.5	3.4
80°-90°	145.4	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°	27513.8	100.0
0°-180°	27513.8	100.0

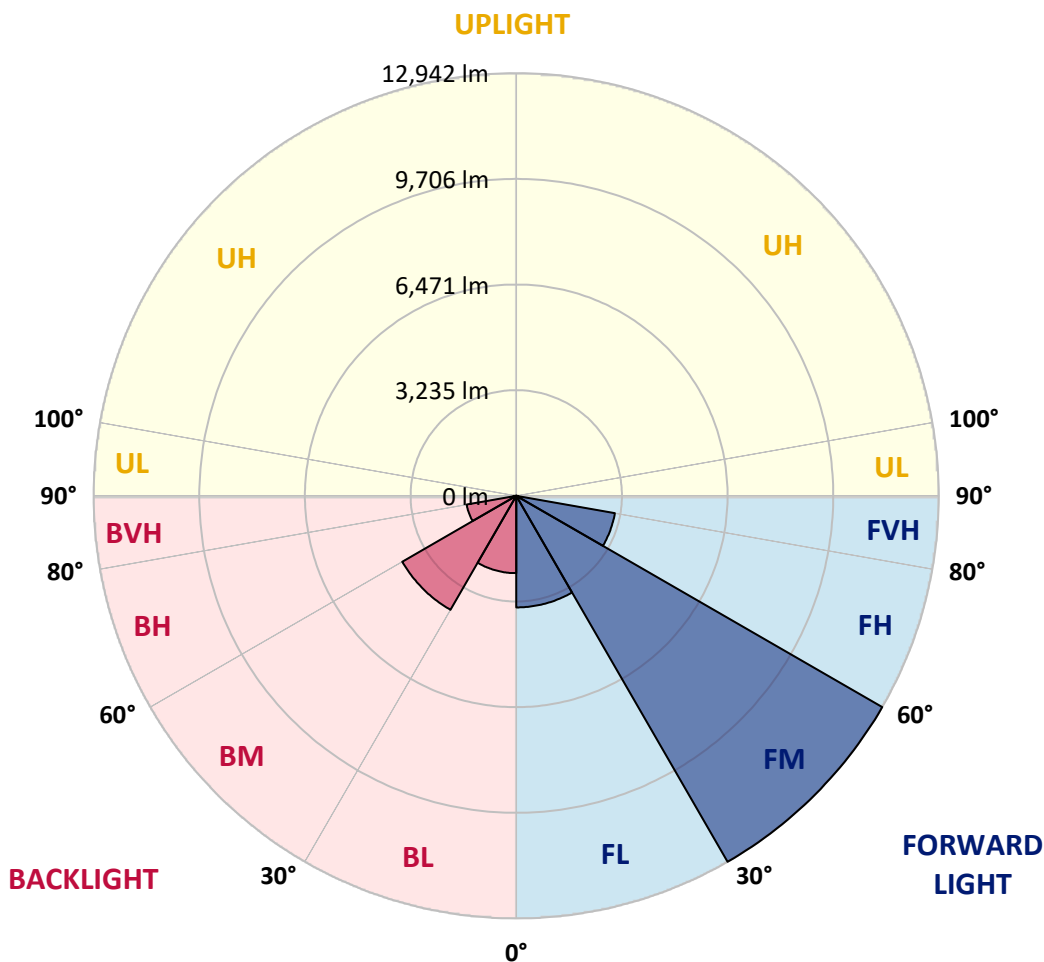


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3418.2	12.4			
FM (30°-60°)	12942.0	47.0			
FH (60°-80°)	3066.1	11.1			G2/5000
FVH (80°-90°)	58.4	0.2			G1/100
BL (0°-30°)	2368.1	8.6	B3/2500		
BM (30°-60°)	4032.0	14.7	B3/5000		
BH (60°-80°)	1542.1	5.6	B3/2500		G3/2500
BVH (80°-90°)	87.0	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°	53°	55°	65°	75°	85°
0°	9102.7	9102.7	9102.7	9102.7	9102.7	9102.7	9102.7	9102.7	9102.7	9102.7	9102.7
2.5°	8989.7	8912.1	8958.0	8940.3	9085.0	9127.4	9106.2	9123.8	9205.0	9166.2	9085.0
5°	8400.3	8509.7	8530.9	8583.8	8668.5	8834.4	8965.0	9000.3	9039.1	9219.1	9201.5
7.5°	7863.8	7937.9	7899.1	8054.4	8237.9	8506.2	8665.0	8693.3	9049.8	9148.6	9222.6
10°	7524.9	7450.9	7627.3	7669.6	7877.9	8185.0	8375.6	8492.0	8816.7	9208.5	9254.4
12.5°	7210.8	7186.1	7292.0	7412.0	7645.0	7962.6	8156.7	8202.6	8703.8	9116.8	9332.1
15°	6977.9	6949.7	7055.5	7143.8	7415.6	7697.9	7944.9	8075.5	8580.3	9063.9	9265.0
17.5°	6794.3	6790.8	6850.9	7009.7	7288.5	7524.9	7923.8	7930.9	8516.8	9145.0	9321.5
20°	6783.8	6780.2	6790.8	6967.3	7221.5	7510.8	7856.7	7920.3	8516.8	9088.5	9325.1
22.5°	6872.0	6815.5	6879.0	6992.0	7175.6	7535.5	7881.4	8022.6	8721.4	9367.3	9483.9
25°	7013.2	7027.3	7062.6	7101.4	7207.3	7592.0	8100.3	8216.7	8961.5	9607.4	9702.7
27.5°	7270.9	7263.8	7277.9	7299.0	7390.8	7645.0	8188.5	8488.5	9462.7	10034.5	9939.2
30°	7648.5	7623.8	7680.3	7754.4	7669.6	7814.4	8481.5	8707.4	9928.6	10465.0	10203.9
32.5°	7990.8	8082.6	8188.5	8220.2	8117.9	8146.2	8869.7	9099.2	10316.8	10994.5	10528.6
35°	8418.0	8492.0	8633.2	8732.1	8714.4	8629.7	9399.1	9702.7	10878.0	11382.7	10870.9
37.5°	8834.4	8922.7	9155.6	9448.5	9286.2	9247.4	9963.8	10214.5	11050.9	11591.0	11121.6
40°	9505.0	9501.5	9903.9	10055.6	10200.4	10133.3	10549.8	10634.5	11142.7	11545.1	11128.6
42.5°	10292.1	10242.7	10652.1	10888.6	11075.7	11082.7	11160.4	11132.1	11185.1	11312.2	11054.5
45°	11040.4	11146.2	11559.2	11982.8	12169.9	12191.0	11675.7	11622.8	11259.2	11245.1	10913.3
47.5°	11954.5	11979.2	12318.1	12875.7	13309.8	13161.6	12342.7	12226.3	11583.9	11693.3	11149.8
50°	12007.5	12191.0	12494.6	13151.0	14485.2	14446.4	13207.5	12988.6	12106.3	12328.6	11809.8
52.5°	10899.2	10856.8	11216.9	12289.8	14396.9	15724.0	14640.5	14118.1	13228.7	13059.3	12879.3
55°	8305.0	8403.8	8721.4	9805.0	12501.6	15741.7	16592.3	16165.3	14428.7	14139.3	13931.1
56°	7285.0	7299.0	7599.1	8587.3	11407.4	15180.5	16962.9	16617.1	15025.2	14584.0	14266.3
57.5°	6039.0	5957.8	6113.1	6653.2	9628.6	13994.6	16557.0	16895.9	15724.0	15064.1	14622.8
60°	4754.3	4736.6	4673.1	4771.9	6084.9	10542.7	13782.8	14545.2	15653.5	14612.3	14005.2
62.5°	3882.5	3794.3	3921.3	4062.5	4228.4	6540.2	9685.0	10133.3	12427.5	11665.1	10521.6
65°	3010.7	2968.4	3127.1	3586.0	3684.8	4154.3	5516.6	5862.6	7337.9	7207.3	6346.1
67.5°	2071.8	2078.9	2216.5	2915.4	3416.6	3374.3	3377.8	3557.8	3829.6	2844.8	2477.7
70°	1313.0	1309.5	1383.6	1877.7	2749.5	2777.8	2636.6	2583.6	2449.5	1482.4	1570.6
72.5°	843.5	818.9	857.7	1037.7	1422.4	1644.8	1694.2	1726.0	1418.9	1164.7	1263.6
75°	476.5	451.8	437.7	483.6	561.2	649.4	713.0	734.1	822.4	882.4	935.3
77.5°	144.7	130.6	158.8	211.8	278.8	374.1	455.3	469.4	554.1	624.8	677.7
80°	63.5	70.6	98.8	141.2	197.6	264.7	321.2	342.3	398.9	451.8	465.9
82.5°	38.8	42.4	67.0	95.3	137.7	187.1	229.4	236.5	292.9	335.3	345.9
85°	14.1	17.6	35.3	56.5	88.2	120.0	120.0	130.6	120.0	120.0	130.6
87.5°	0.0	0.0	3.5	7.0	7.0	10.6	14.1	14.1	17.6	21.1	24.7
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°	9102.7	9102.7	9102.7	9102.7	9102.7	9102.7	9102.7	9102.7	9102.7	9102.7	9102.7
2.5°	9127.4	9109.7	9081.5	8979.1	8968.6	8936.8	8760.3	8732.1	8760.3	8675.6	8682.6
5°	9109.7	9162.7	8950.9	8848.5	8657.9	8520.3	8361.4	8280.3	8135.6	8043.8	8146.2
7.5°	9187.4	9166.2	8901.5	8679.1	8393.2	8043.8	7764.9	7606.1	7352.0	7281.4	7334.4
10°	9159.1	9046.2	8735.6	8442.6	7902.6	7595.6	7143.8	6706.1	6466.1	6342.5	6324.9
12.5°	9120.3	9088.5	8569.7	8065.0	7496.8	6850.9	6215.5	5802.6	5410.8	5241.3	5266.1
15°	9166.2	8897.9	8259.1	7620.2	6865.0	6017.8	5333.1	4800.2	4528.4	4418.9	4418.9
17.5°	9145.0	8806.2	8110.9	7122.6	6166.1	5163.7	4411.9	4090.7	3977.8	3977.8	4009.6
20°	9155.6	8866.1	7810.8	6625.0	5340.2	4348.4	3801.3	3684.8	3734.2	3751.9	3769.5
22.5°	9215.6	8668.5	7517.9	6077.9	4574.3	3720.1	3451.9	3455.4	3543.6	3638.9	3621.3
25°	9289.7	8590.8	7161.4	5534.3	3988.4	3413.0	3328.4	3317.7	3384.8	3434.2	3441.3
27.5°	9226.2	8456.8	6797.8	4856.6	3508.4	3208.3	3190.7	3197.8	3218.9	3317.7	3286.0
30°	9434.4	8495.6	6342.5	4288.4	3243.7	3141.3	3120.1	3109.5	3141.3	3169.5	3144.8
32.5°	9692.1	8357.9	6003.7	3741.3	3113.1	3091.8	3049.6	3035.4	3053.1	3024.8	3038.9
35°	9805.0	8333.2	5562.5	3349.5	3010.7	2993.0	2968.4	2964.8	2968.4	2943.6	2922.5
37.5°	9868.5	8449.7	5057.8	3169.5	2947.1	2964.8	2908.3	2901.2	2837.7	2851.8	2862.4
40°	9978.0	8269.7	4648.4	2996.5	2908.3	2873.1	2823.7	2813.0	2770.6	2746.0	2770.6
42.5°	9819.1	8216.7	4246.1	2922.5	2851.8	2813.0	2777.8	2717.7	2703.6	2682.5	2668.3
45°	9692.1	7913.2	3886.0	2830.7	2784.8	2763.6	2696.6	2633.0	2580.1	2601.3	2569.5
47.5°	9787.4	7807.3	3529.5	2753.0	2693.1	2668.3	2601.3	2551.9	2498.9	2474.2	2467.2
50°	10168.6	8005.0	3229.5	2696.6	2615.4	2601.3	2513.0	2456.6	2407.2	2389.5	2396.5
52.5°	11079.2	8545.0	3024.8	2580.1	2541.2	2477.7	2428.3	2357.7	2326.0	2269.5	2304.8
55°	12233.4	9423.9	2971.9	2470.7	2449.5	2393.0	2326.0	2273.0	2213.0	2167.1	2156.5
56°	12604.0	9843.9	2929.5	2428.3	2393.0	2361.3	2273.0	2241.3	2146.0	2135.4	2128.3
57.5°	12904.0	10214.5	2936.6	2347.1	2311.8	2283.6	2230.7	2153.0	2089.5	2050.7	2068.3
60°	12226.3	9561.5	2802.4	2223.6	2216.5	2163.6	2089.5	2054.2	1976.5	1930.6	1920.1
62.5°	9088.5	6490.8	2273.0	2064.8	2061.2	2004.8	1920.1	1881.2	1867.1	1803.6	1803.6
65°	5234.3	4069.6	1966.0	1934.2	1906.0	1849.4	1764.8	1733.0	1697.7	1676.6	1658.9
67.5°	2234.2	2110.7	1785.9	1782.4	1750.6	1680.1	1595.4	1546.0	1500.1	1457.7	1478.9
70°	1620.0	1644.8	1613.0	1595.4	1556.5	1468.3	1394.1	1334.2	1263.6	1235.3	1256.5
72.5°	1284.7	1337.7	1383.6	1387.1	1341.2	1238.9	1157.7	1076.5	998.9	960.0	977.7
75°	974.1	1009.4	1055.3	1065.9	998.9	928.2	850.7	765.9	705.9	660.0	667.1
77.5°	702.4	695.3	737.7	730.6	698.8	649.4	578.9	501.2	434.1	391.8	395.3
80°	480.0	490.6	515.3	511.8	472.9	441.2	388.2	324.7	275.3	240.0	232.9
82.5°	335.3	353.0	374.1	356.5	324.7	292.9	254.2	208.3	169.4	141.2	134.1
85°	120.0	137.7	158.8	169.4	180.0	173.0	144.7	116.5	84.7	70.6	67.0
87.5°	24.7	28.3	31.8	31.8	31.8	28.3	24.7	24.7	21.1	10.6	10.6
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)