

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: P651399

Luminaire Tested: **GALN-SA5D-840-U-SL3-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P651399  
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-SA5D-840-U-SL3-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 80 CRI, 4000K, 1200mA 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: 27562.9 lumens  
Efficiency: N/A  
Efficacy: 89.2 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3

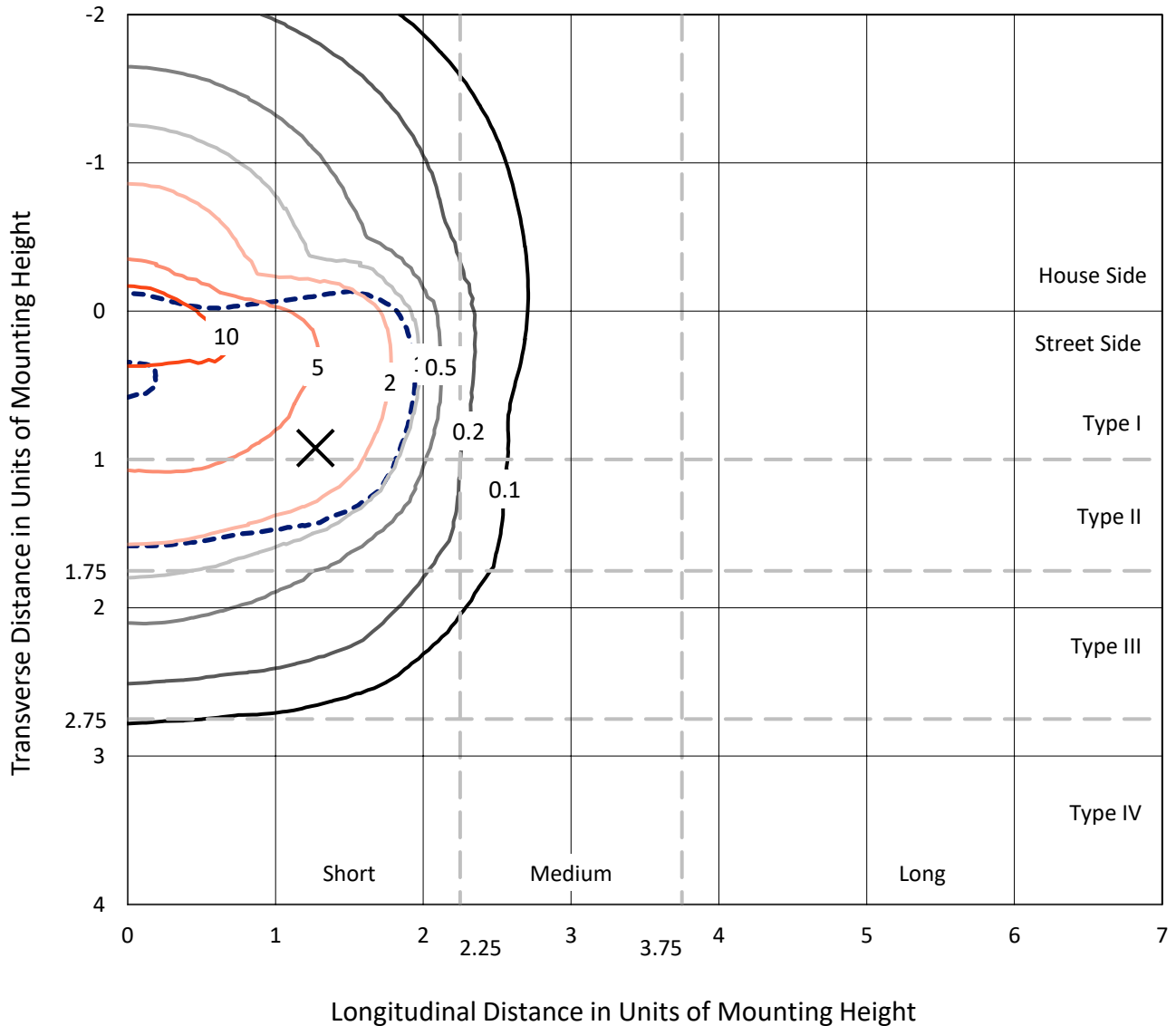
Input Watts (W): 309  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

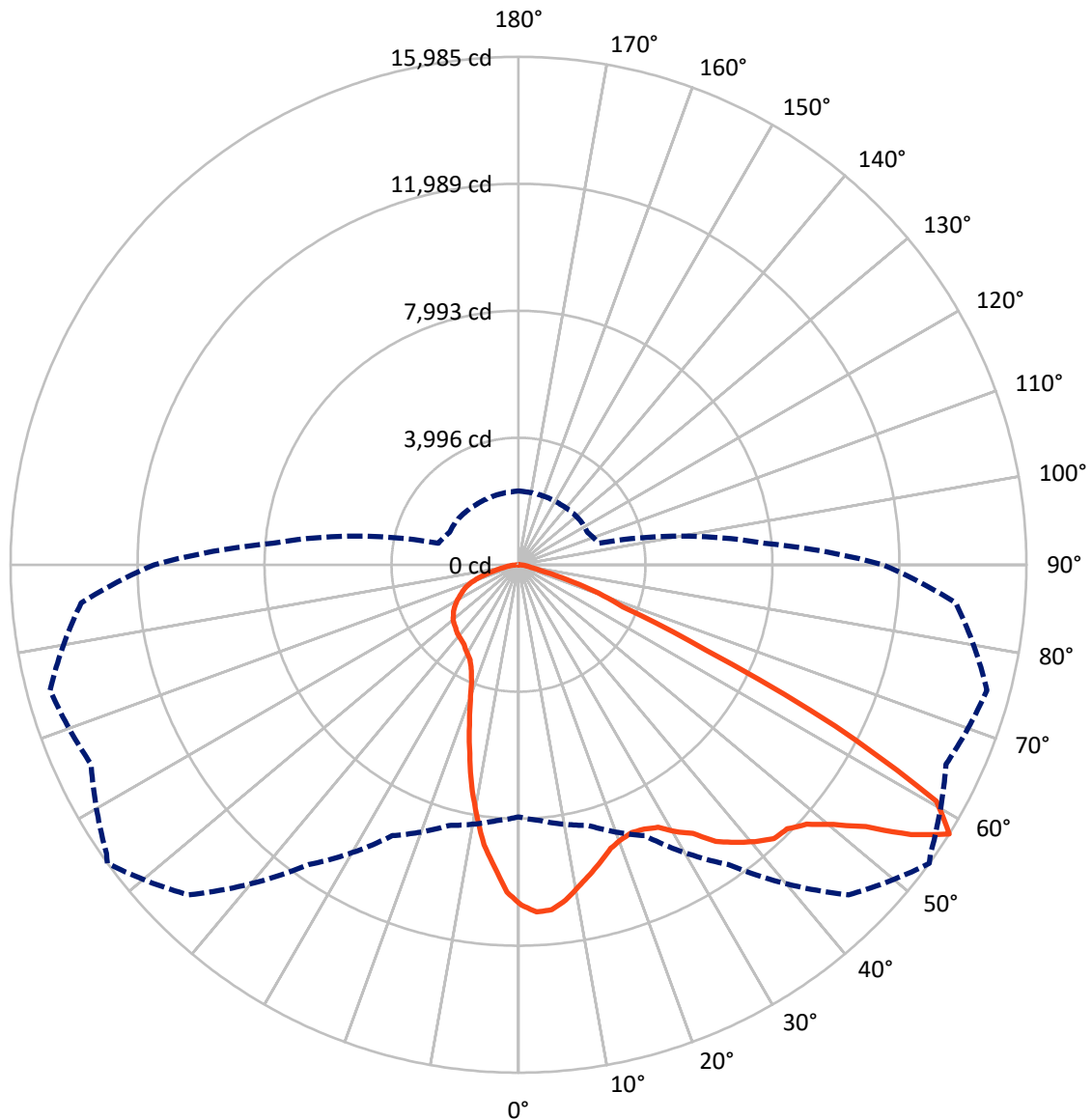
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.1 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
<b>House Side</b>	Lumens	7625.4	0.0	7625.4
	% Fixture	27.7	0.0	27.7
<b>Street Side</b>	Lumens	19937.5	0.0	19937.5
	% Fixture	72.3	0.0	72.3
<b>Total</b>	Lumens	27562.9	0.0	27562.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	923.9	3.4
10°-20°	2139.2	7.8
20°-30°	3005.6	10.9
30°-40°	4201.9	15.2
40°-50°	5688.6	20.6
50°-60°	6928.9	25.1
60°-70°	3608.9	13.1
70°-80°	924.7	3.4
80°-90°	141.1	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°	27562.9	100.0
0°-180°	27562.9	100.0

**Coefficient of Utilization**

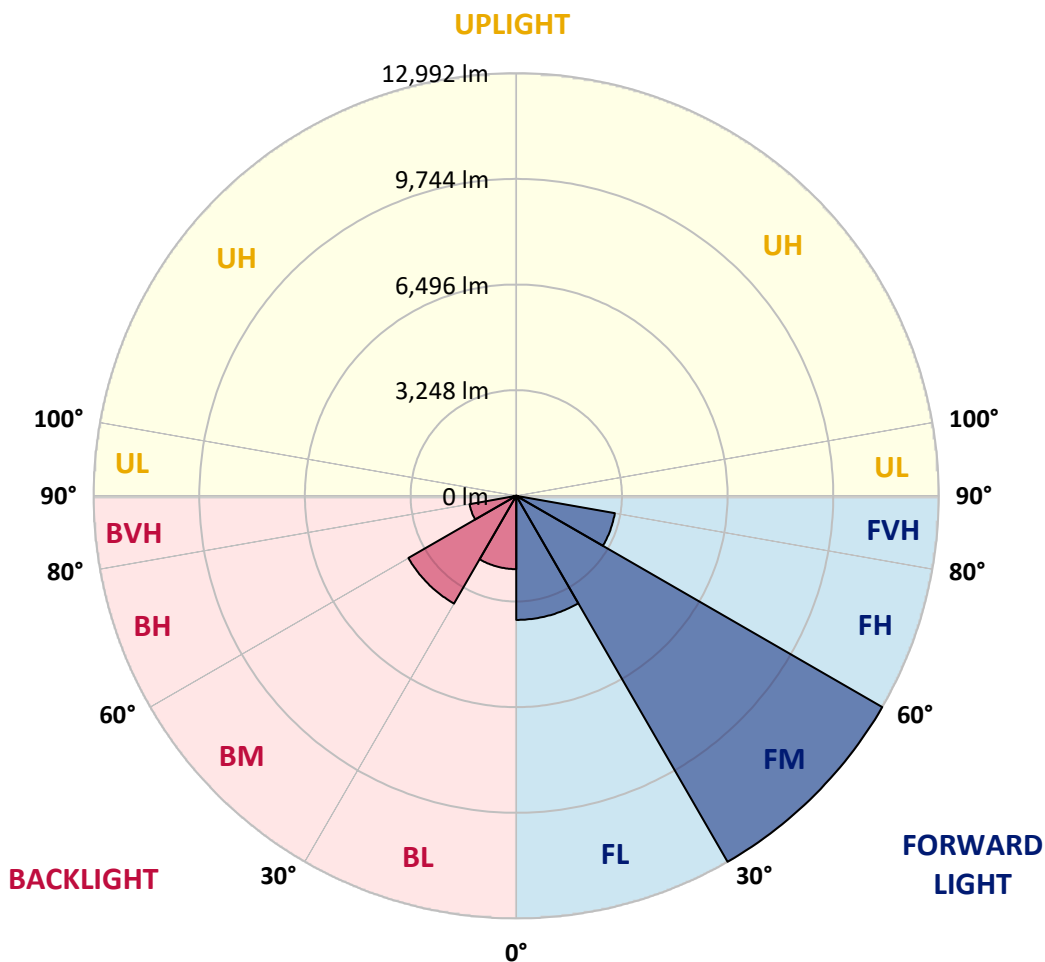


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3815.1	13.8			
FM (30°-60°)	12992.3	47.1			
FH (60°-80°)	3076.8	11.2			G2/5000
FVH (80°-90°)	53.3	0.2			G1/100
BL (0°-30°)	2253.7	8.2	B3/2500		
BM (30°-60°)	3827.1	13.9	B3/5000		
BH (60°-80°)	1456.8	5.3	B3/2500		G3/2500
BVH (80°-90°)	87.8	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°	10713.4	10713.4	10713.4	10713.4	10713.4	10713.4	10713.4	10713.4	10713.4	10713.4	10713.4
2.5°	11018.1	10975.6	10982.6	11039.3	10968.5	10940.1	10940.1	10802.0	10812.6	10716.9	10692.1
5°	10763.0	10663.8	10731.1	10816.1	10830.3	10858.7	10904.7	10869.3	10770.1	10667.3	10500.8
7.5°	10097.0	10185.5	10210.3	10270.5	10398.1	10515.0	10660.3	10561.0	10557.5	10454.8	10355.6
10°	9512.4	9459.2	9593.9	9682.4	9895.0	10089.9	10313.1	10302.4	10355.6	10238.7	10068.6
12.5°	8931.3	8888.9	8952.6	9154.5	9452.2	9735.6	10001.3	9902.1	10185.5	10164.2	9799.3
15°	8315.0	8346.8	8438.9	8626.7	9016.4	9356.5	9693.1	9696.6	9948.2	10033.2	9544.3
17.5°	7882.7	7847.3	7964.2	8244.1	8591.2	8998.7	9381.3	9459.2	9845.4	9895.0	9466.3
20°	7560.3	7609.9	7762.3	7904.0	8304.3	8796.8	9229.0	9257.3	9824.1	9958.8	9342.3
22.5°	7482.4	7454.0	7503.7	7733.9	8063.4	8598.4	9147.5	9253.8	9820.6	9937.5	9108.5
25°	7400.9	7493.0	7489.4	7719.7	7960.7	8438.9	9214.8	9331.7	10008.4	10047.3	9140.4
27.5°	7585.1	7574.5	7673.7	7691.4	7989.0	8481.4	9356.5	9445.1	10320.2	10288.3	9165.2
30°	7769.3	7716.2	7776.4	7985.5	8123.6	8725.9	9746.2	9739.1	10724.0	10702.7	9243.2
32.5°	7996.1	7971.3	8010.3	8194.5	8428.3	9051.9	10075.7	10284.8	11135.0	11269.7	9512.4
35°	8038.6	8141.3	8233.5	8481.4	8814.4	9579.7	10695.7	10869.3	11609.8	12031.3	10026.1
37.5°	8307.8	8346.8	8562.9	9002.2	9306.9	10284.8	11088.9	11198.8	12041.9	12520.2	10568.2
40°	8594.8	8640.9	8966.8	9427.4	9845.4	10745.3	11457.4	11492.8	12180.1	12895.7	10922.4
42.5°	8984.5	9027.0	9349.4	9926.9	10486.7	11138.5	11783.3	11822.3	12169.5	13328.0	11485.7
45°	9388.4	9491.1	9870.2	10525.6	11028.7	11599.1	11857.7	12017.1	12268.7	13714.1	11942.7
47.5°	9955.3	10050.9	10362.6	11003.9	11592.0	12003.0	12201.4	12357.2	12506.0	14050.7	12236.8
50°	10557.5	10575.2	10954.3	11535.3	11967.5	12460.0	12842.6	12895.7	12817.8	14440.4	12736.4
52.5°	11000.4	11057.0	11351.1	11918.0	12562.8	13168.5	13692.9	13749.6	13597.2	14585.6	12906.4
55°	10267.0	10235.1	10713.4	11468.0	12963.1	14224.3	14986.0	15028.5	14164.0	15035.6	13462.6
57.5°	7935.8	8088.1	8495.6	9406.1	11517.6	14691.9	15985.1	15832.8	14844.3	15262.3	13816.9
60°	5767.7	5732.3	6005.0	6614.4	8679.9	12661.9	15113.5	15269.4	14288.1	13756.7	11393.6
62.5°	4697.7	4648.1	4669.4	4690.7	5601.1	8403.5	11188.2	11184.6	11003.9	9887.9	7684.3
65°	3755.3	3872.3	3882.9	4042.4	4159.2	5020.1	6483.3	6830.5	5948.3	4878.4	3539.3
67.5°	2830.7	2788.2	2929.9	3496.7	3716.4	3624.3	3539.3	3578.2	2543.7	1835.1	1728.8
70°	1668.6	1651.0	1821.0	2437.5	3061.0	2880.3	2667.7	2671.3	1746.6	1282.5	1427.8
72.5°	914.0	910.5	946.0	1236.4	1739.5	1806.8	1601.3	1651.0	1041.6	1038.0	1116.0
75°	510.2	499.6	488.9	545.6	627.0	662.5	676.7	683.7	715.6	800.6	832.6
77.5°	187.8	180.6	180.6	209.0	265.7	333.0	421.6	428.7	506.6	581.0	612.9
80°	63.7	70.9	95.6	131.1	177.1	237.3	286.9	294.0	357.8	407.4	418.1
82.5°	38.9	42.6	63.7	92.1	127.6	166.5	212.6	216.1	265.7	297.6	311.8
85°	17.7	21.3	35.4	56.7	81.5	109.8	113.4	113.4	109.8	113.4	106.3
87.5°	0.0	0.0	7.1	7.1	7.1	10.6	14.2	10.6	17.7	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°	10713.4	10713.4	10713.4	10713.4	10713.4	10713.4	10713.4	10713.4	10713.4	10713.4	10713.4
2.5°	10617.7	10578.8	10458.3	10352.0	10320.2	10178.5	9969.4	9994.2	9841.9	9912.7	9838.4
5°	10472.5	10341.4	10033.2	9902.1	9558.5	9402.5	9296.2	9030.6	8906.6	8881.8	8775.5
7.5°	10100.5	10019.0	9632.8	9278.6	8913.7	8601.9	8201.6	7928.8	7733.9	7680.8	7524.8
10°	9806.5	9625.7	9090.8	8552.3	8031.5	7489.4	6968.7	6561.2	6362.8	6132.6	6054.6
12.5°	9515.9	9243.2	8520.4	7829.5	7156.4	6472.7	5842.1	5346.1	4913.9	4811.1	4775.7
15°	9335.3	8860.5	8010.3	7177.7	6221.1	5328.3	4697.7	4371.8	4106.1	3996.3	4074.2
17.5°	9097.9	8545.2	7521.3	6412.5	5360.3	4538.3	4010.5	3808.5	3712.8	3723.4	3691.6
20°	8800.3	8247.6	6880.1	5718.0	4591.4	3936.0	3634.9	3560.5	3574.7	3599.5	3588.9
22.5°	8587.7	7886.2	6416.0	5009.5	3967.9	3603.0	3479.0	3425.9	3471.9	3493.2	3475.5
25°	8424.7	7578.0	5852.7	4382.5	3606.5	3415.2	3358.5	3355.0	3425.9	3454.2	3436.5
27.5°	8275.9	7291.0	5292.9	3904.2	3365.7	3270.0	3252.3	3294.8	3340.9	3369.2	3394.0
30°	8187.4	7071.4	4768.6	3503.9	3245.2	3199.2	3167.3	3206.2	3231.0	3259.4	3245.2
32.5°	8272.4	6915.5	4261.9	3277.0	3146.0	3099.9	3142.5	3117.7	3160.1	3185.0	3146.0
35°	8538.1	6777.4	3900.6	3156.6	3032.6	3050.3	3057.5	3046.8	3064.5	3043.2	3089.3
37.5°	8800.3	6727.7	3567.6	3053.9	2979.5	2979.5	2972.4	2951.2	2986.6	2979.5	3000.8
40°	9133.3	6759.6	3284.2	2944.1	2929.9	2922.8	2894.5	2890.9	2876.7	2880.3	2887.4
42.5°	9423.8	6830.5	3121.2	2873.2	2883.8	2898.0	2844.9	2802.4	2820.0	2784.6	2784.6
45°	9732.1	6894.3	2976.0	2823.6	2813.0	2809.4	2766.9	2742.1	2728.0	2731.5	2763.4
47.5°	10217.4	6986.4	2866.1	2756.3	2763.4	2710.2	2699.6	2667.7	2681.9	2703.1	2706.7
50°	10561.0	7181.2	2781.1	2678.3	2703.1	2667.7	2604.0	2589.8	2589.8	2625.2	2618.1
52.5°	10802.0	7454.0	2699.6	2593.3	2604.0	2575.6	2554.4	2522.5	2501.2	2550.8	2575.6
55°	11538.9	7907.5	2678.3	2522.5	2519.0	2490.6	2451.6	2419.7	2409.1	2416.2	2465.8
57.5°	11468.0	7765.8	2611.1	2398.4	2391.4	2352.4	2313.4	2302.8	2299.3	2306.4	2320.5
60°	9310.5	5735.8	2331.2	2256.7	2246.1	2239.1	2200.1	2157.6	2136.3	2157.6	2139.8
62.5°	6160.9	3840.3	2054.8	2086.7	2093.8	2076.1	2012.3	1969.8	1976.9	2001.7	1962.7
65°	3025.6	2256.7	1863.5	1948.5	1955.7	1906.0	1845.8	1796.2	1771.4	1792.7	1774.9
67.5°	1728.8	1725.3	1707.7	1796.2	1792.7	1743.1	1647.4	1604.9	1562.4	1569.5	1558.8
70°	1466.7	1495.0	1530.5	1583.6	1580.1	1523.4	1410.0	1378.1	1317.9	1310.9	1293.1
72.5°	1154.9	1204.6	1282.5	1321.5	1289.6	1218.7	1144.3	1091.2	1038.0	1006.2	1016.8
75°	857.3	928.2	970.8	995.5	946.0	906.9	846.7	783.0	719.2	690.9	680.2
77.5°	623.5	644.8	683.7	701.5	669.6	630.6	595.2	531.4	471.2	432.2	421.6
80°	435.7	449.9	478.3	478.3	478.3	460.5	414.5	350.7	311.8	276.4	269.3
82.5°	304.7	318.8	347.2	333.0	329.5	308.2	279.9	230.3	187.8	163.0	155.9
85°	106.3	116.9	141.7	170.1	180.6	177.1	159.5	127.6	99.2	81.5	74.4
87.5°	24.8	24.8	28.3	24.8	24.8	28.3	24.8	24.8	24.8	17.7	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)