

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: P651917

Luminaire Tested: **GALN-SA5A-840-U-T3-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P651917  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-16)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA5A-840-U-T3-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 80 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 16421.4 lumens  
Efficiency: N/A  
Efficacy: 106.6 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G2

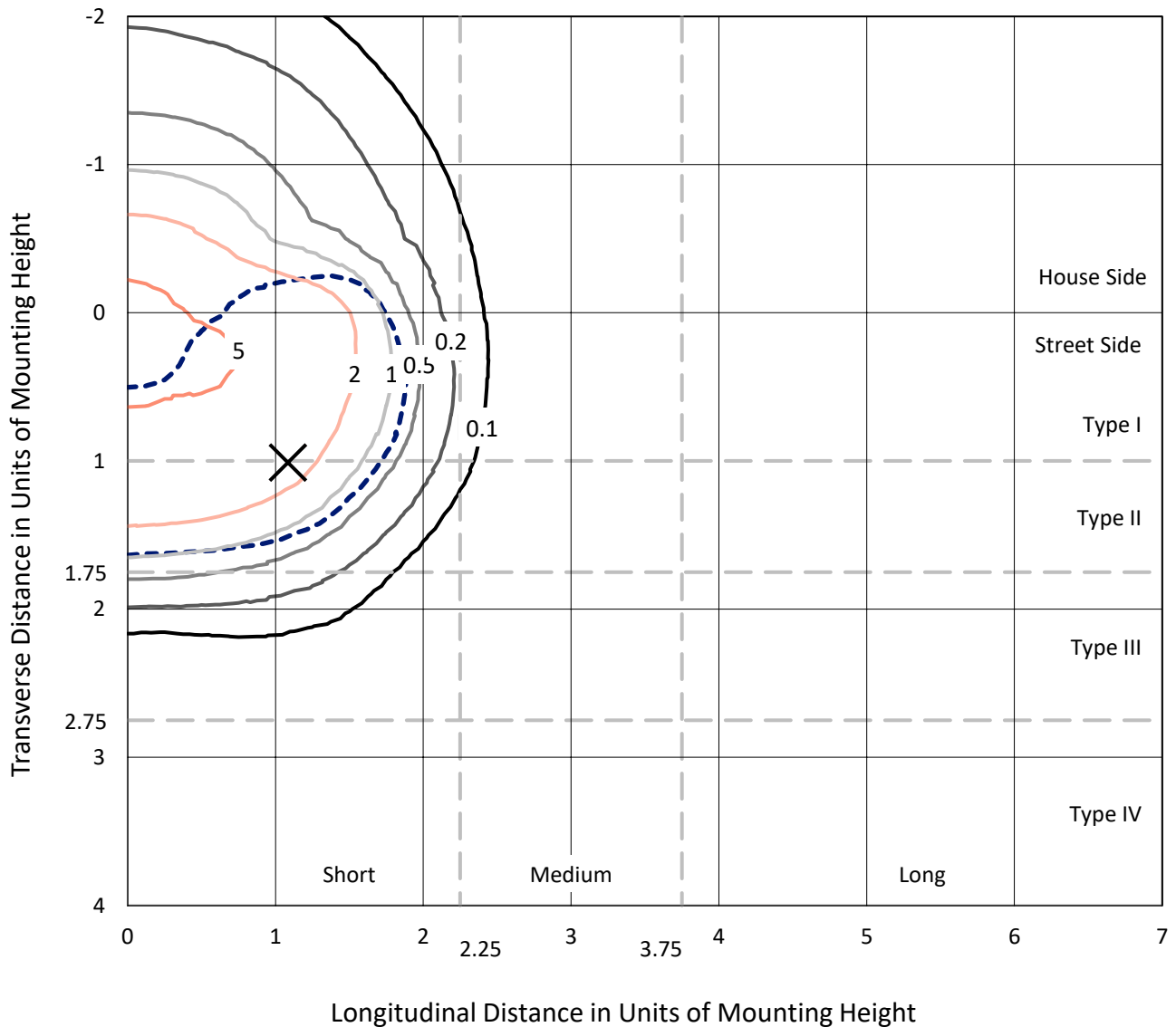
Input Watts (W): 154  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

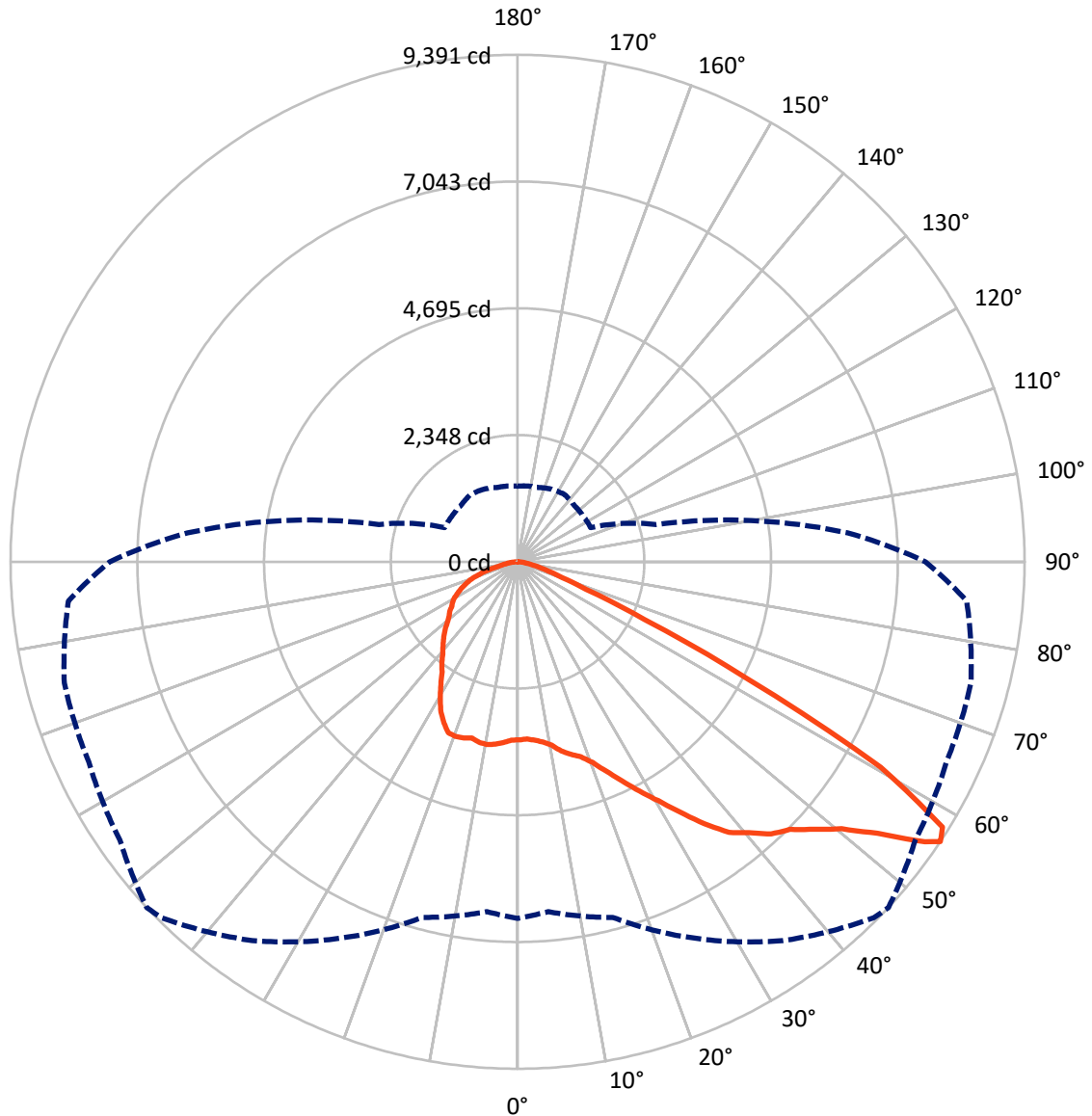
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.5 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral      - - - Horizontal Cone Through 56-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5203.7	0.0	5203.7
	% Fixture	31.7	0.0	31.7
<b>Street Side</b>	Lumens	11217.6	0.0	11217.6
	% Fixture	68.3	0.0	68.3
<b>Total</b>	Lumens	16421.4	0.0	16421.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	321.4	2.0
10°-20°	1013.9	6.2
20°-30°	1792.2	10.9
30°-40°	2691.9	16.4
40°-50°	3694.4	22.5
50°-60°	4401.3	26.8
60°-70°	1883.5	11.5
70°-80°	533.0	3.2
80°-90°	89.7	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°	16421.4	100.0
0°-180°	16421.4	100.0

**Coefficient of Utilization**

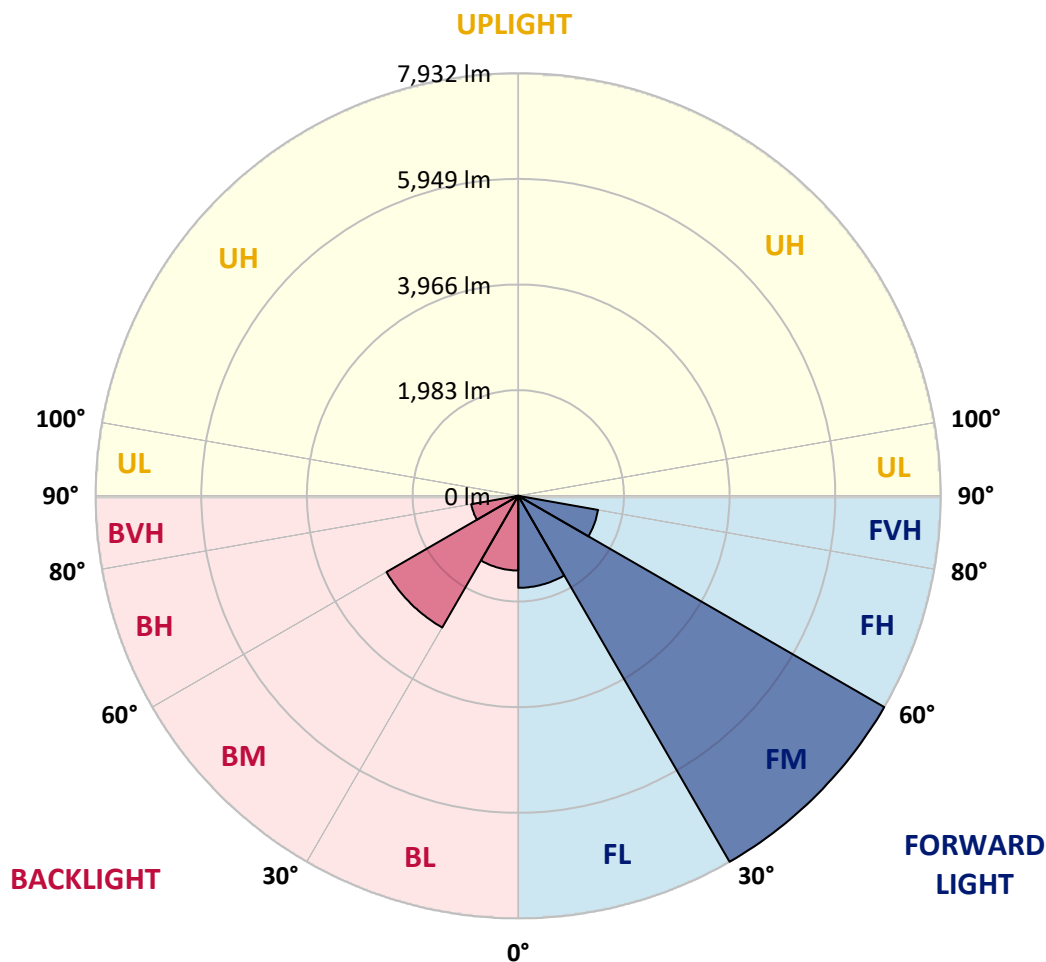


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1726.4	10.5			
FM (30°-60°)	7931.9	48.3			
FH (60°-80°)	1521.2	9.3			G1/1800
FVH (80°-90°)	38.1	0.2			G1/100
BL (0°-30°)	1401.1	8.5	B3/2500		
BM (30°-60°)	2855.7	17.4	B3/5000		
BH (60°-80°)	895.3	5.5	B2/1000		G2/1000
BVH (80°-90°)	51.6	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-G2**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	3298.6	3298.6	3298.6	3298.6	3298.6	3298.6	3298.6	3298.6	3298.6	3298.6	3298.6
2.5°	3286.0	3279.7	3275.5	3309.0	3296.5	3298.6	3286.0	3298.6	3306.9	3288.1	3315.3
5°	3279.7	3298.6	3281.8	3292.3	3319.5	3311.1	3319.5	3344.7	3338.3	3332.0	3323.7
7.5°	3338.3	3340.5	3353.0	3357.2	3365.6	3357.2	3369.7	3392.8	3386.5	3350.9	3355.1
10°	3422.1	3426.3	3428.4	3451.5	3466.1	3468.2	3453.6	3432.6	3430.5	3478.6	3445.2
12.5°	3518.5	3508.0	3533.1	3541.5	3558.3	3577.1	3595.9	3552.0	3579.2	3581.3	3541.5
15°	3658.8	3669.3	3639.9	3639.9	3646.2	3648.3	3700.7	3679.7	3675.5	3652.5	3669.3
17.5°	3868.2	3797.0	3794.9	3765.6	3761.4	3778.2	3797.0	3813.8	3870.3	3824.2	3734.2
20°	4021.1	4037.8	3977.1	3941.5	3947.8	3985.5	3966.7	4042.0	4081.8	4006.4	3918.5
22.5°	4291.3	4234.7	4249.4	4169.8	4176.1	4215.8	4213.7	4291.3	4314.3	4194.9	4067.2
25°	4473.4	4458.8	4471.3	4408.5	4416.9	4448.3	4498.6	4626.3	4588.7	4456.7	4161.4
27.5°	4739.5	4710.1	4699.7	4676.6	4668.2	4752.0	4810.7	4946.8	4919.6	4726.8	4329.0
30°	5011.7	4992.8	5003.4	4909.1	4942.6	5120.6	5137.3	5323.8	5311.2	4971.9	4515.3
32.5°	5200.2	5210.7	5229.5	5177.2	5325.9	5468.3	5524.8	5736.4	5746.8	5392.9	4875.6
35°	5503.8	5468.3	5478.8	5539.5	5608.6	5868.2	5960.4	6100.8	6188.8	5834.8	5221.2
37.5°	5694.5	5732.2	5688.2	5784.5	5964.6	6276.6	6360.5	6505.0	6597.1	6270.4	5692.4
40°	5991.9	5931.2	5962.5	6031.7	6215.9	6622.2	6599.2	6747.9	6777.2	6641.1	6132.2
42.5°	6312.3	6282.9	6239.0	6396.1	6551.1	6846.3	6892.4	6823.3	6972.0	7003.4	6760.5
45°	6695.5	6731.1	6737.4	6741.6	6877.8	7135.4	7072.6	7011.8	7183.5	7411.8	7150.0
47.5°	7051.5	6938.5	7020.2	7133.3	7326.0	7328.1	7401.3	7256.8	7439.1	7642.2	7501.9
50°	7171.0	7116.5	7225.4	7439.1	7736.4	7767.8	7776.2	7570.9	7665.2	7826.5	7623.3
52.5°	7124.9	7106.0	7384.6	7715.5	8151.1	8310.3	8352.1	8098.7	8151.1	8077.8	7891.4
55°	6904.9	6961.5	7242.2	7916.5	8584.6	9076.7	9156.4	8836.0	8502.9	8559.4	8354.2
56°	6603.4	6505.0	6819.1	7688.3	8565.8	9326.0	9390.9	8990.9	8764.7	8691.4	8350.0
57.5°	5602.3	5474.6	5887.2	6917.6	8090.3	9231.7	9279.9	9055.8	8720.7	8572.1	7740.6
60°	3279.7	3342.6	3866.1	4770.8	6241.1	7568.8	7730.1	7893.5	7669.4	7003.4	5761.4
62.5°	1583.3	1543.5	1918.4	2735.2	3803.3	4831.6	4783.4	5242.1	5493.4	4976.1	3637.8
65°	829.3	825.2	1047.1	1493.3	2090.1	2538.3	2582.3	2829.5	3175.0	2563.5	1847.2
67.5°	609.5	626.2	737.2	1049.2	1344.6	1371.8	1365.5	1489.1	1522.5	1288.0	1135.1
70°	477.5	485.8	567.6	797.9	1001.1	896.3	877.5	892.2	990.6	1032.5	982.2
72.5°	345.6	354.0	423.0	538.2	626.2	611.6	624.1	705.8	827.3	871.3	818.9
75°	230.3	236.7	274.3	328.8	370.7	400.0	423.0	517.3	630.4	655.6	630.4
77.5°	159.2	165.4	190.6	232.5	236.7	255.5	263.9	307.9	376.9	408.4	391.7
80°	90.1	90.1	102.6	119.3	146.6	171.7	175.9	211.5	243.0	263.9	268.1
82.5°	41.9	44.0	54.4	73.3	96.4	119.3	123.5	146.6	169.6	190.6	196.9
85°	20.9	23.0	31.5	44.0	58.6	71.2	69.1	71.2	75.4	71.2	73.3
87.5°	6.3	6.3	8.4	10.5	8.4	10.5	10.5	12.5	14.6	16.7	18.8
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°	3298.6	3298.6	3298.6	3298.6	3298.6	3298.6	3298.6	3298.6	3298.6	3298.6	3298.6
2.5°	3317.4	3323.7	3281.8	3321.6	3306.9	3304.9	3334.1	3329.9	3340.5	3336.2	3311.1
5°	3319.5	3304.9	3348.8	3309.0	3327.8	3367.7	3340.5	3403.3	3371.8	3392.8	3346.8
7.5°	3384.4	3388.6	3380.2	3397.0	3388.6	3407.5	3392.8	3407.5	3382.3	3384.4	3426.3
10°	3441.0	3428.4	3443.1	3422.1	3436.7	3430.5	3397.0	3386.5	3394.9	3384.4	3411.7
12.5°	3545.7	3522.6	3512.2	3487.0	3470.3	3407.5	3355.1	3325.8	3365.6	3371.8	3359.3
15°	3652.5	3654.6	3606.5	3549.9	3445.2	3350.9	3363.5	3373.9	3373.9	3390.7	3359.3
17.5°	3719.5	3719.5	3675.5	3562.5	3455.7	3401.2	3388.6	3355.1	3325.8	3321.6	3319.5
20°	3836.8	3801.2	3700.7	3560.4	3451.5	3426.3	3332.0	3252.5	3191.8	3170.8	3168.7
22.5°	3970.9	3880.8	3740.4	3564.5	3445.2	3409.6	3233.6	3114.2	3005.3	2959.3	2965.5
25°	4094.4	3949.9	3763.5	3545.7	3422.1	3250.4	3053.5	2888.1	2775.0	2737.3	2718.4
27.5°	4180.3	4023.2	3763.5	3562.5	3336.2	3072.3	2871.3	2659.7	2561.3	2536.2	2540.4
30°	4295.5	4115.3	3828.4	3526.8	3164.5	2842.0	2601.1	2463.0	2404.3	2383.3	2398.0
32.5°	4565.6	4356.2	3918.5	3441.0	2961.3	2611.6	2416.9	2339.3	2253.5	2211.6	2196.9
35°	4858.8	4584.5	4006.4	3296.5	2733.1	2402.1	2280.7	2209.5	2106.9	2060.8	2069.2
37.5°	5273.5	4877.6	4012.7	3057.7	2486.0	2284.9	2173.9	2062.9	1979.1	1907.9	1887.0
40°	5832.7	5277.7	3998.0	2806.4	2287.0	2146.7	2065.0	1926.8	1832.5	1782.2	1792.8
42.5°	6324.8	5746.8	3937.3	2521.6	2106.9	2052.5	1960.3	1824.1	1732.0	1679.6	1675.4
45°	6739.5	6092.4	3822.1	2278.6	1956.1	1947.8	1840.9	1736.2	1662.9	1614.7	1635.7
47.5°	7122.8	6370.9	3648.3	2035.6	1817.9	1834.6	1732.0	1667.1	1621.0	1577.0	1574.9
50°	7261.0	6366.7	3495.4	1834.6	1706.9	1698.5	1694.3	1625.2	1577.0	1539.4	1556.1
52.5°	7491.4	6437.9	3329.9	1696.4	1606.3	1608.4	1623.1	1572.8	1518.3	1495.4	1516.3
55°	7822.3	6448.5	2965.5	1535.2	1522.5	1537.3	1537.3	1503.7	1457.6	1438.8	1428.4
56°	7552.1	6136.4	2659.7	1493.3	1480.7	1480.7	1520.4	1482.8	1426.3	1411.5	1399.0
57.5°	6965.7	5376.1	2226.3	1443.0	1424.1	1453.4	1474.4	1434.6	1382.3	1361.3	1373.9
60°	4804.4	3637.8	1673.3	1334.1	1334.1	1382.3	1399.0	1340.4	1317.3	1315.2	1298.5
62.5°	2804.3	2119.5	1308.9	1235.7	1239.8	1279.7	1292.2	1258.7	1229.4	1264.9	1281.7
65°	1487.0	1264.9	1122.6	1130.9	1133.0	1164.4	1218.9	1216.8	1214.7	1225.2	1227.3
67.5°	1076.5	1051.3	1020.0	1011.6	1015.8	1038.8	1093.2	1135.1	1133.0	1107.9	1089.0
70°	959.2	923.6	904.7	906.9	890.1	917.3	961.3	988.5	940.3	911.1	898.4
72.5°	797.9	787.4	774.9	777.0	743.4	737.2	686.9	686.9	674.4	666.0	680.6
75°	609.5	605.3	611.6	601.1	565.5	527.7	498.5	471.2	429.3	412.6	404.2
77.5°	385.3	398.0	412.6	389.6	374.9	347.7	318.3	291.1	257.6	238.8	238.8
80°	261.8	272.2	282.7	278.5	261.8	236.7	213.6	184.3	161.3	146.6	144.5
82.5°	199.0	207.3	222.0	205.2	188.5	167.5	148.7	127.7	106.8	90.1	90.1
85°	71.2	81.7	90.1	98.4	104.7	106.8	92.2	75.4	60.7	48.2	46.1
87.5°	18.8	20.9	23.0	20.9	20.9	20.9	23.0	20.9	18.8	14.6	14.6
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)