

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: P650878

Luminaire Tested: **GALN-SA4C-840-U-T3**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P650878  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-12)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA4C-840-U-T3  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 80 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 23194.8 lumens  
Efficiency: N/A  
Efficacy: 108.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G3

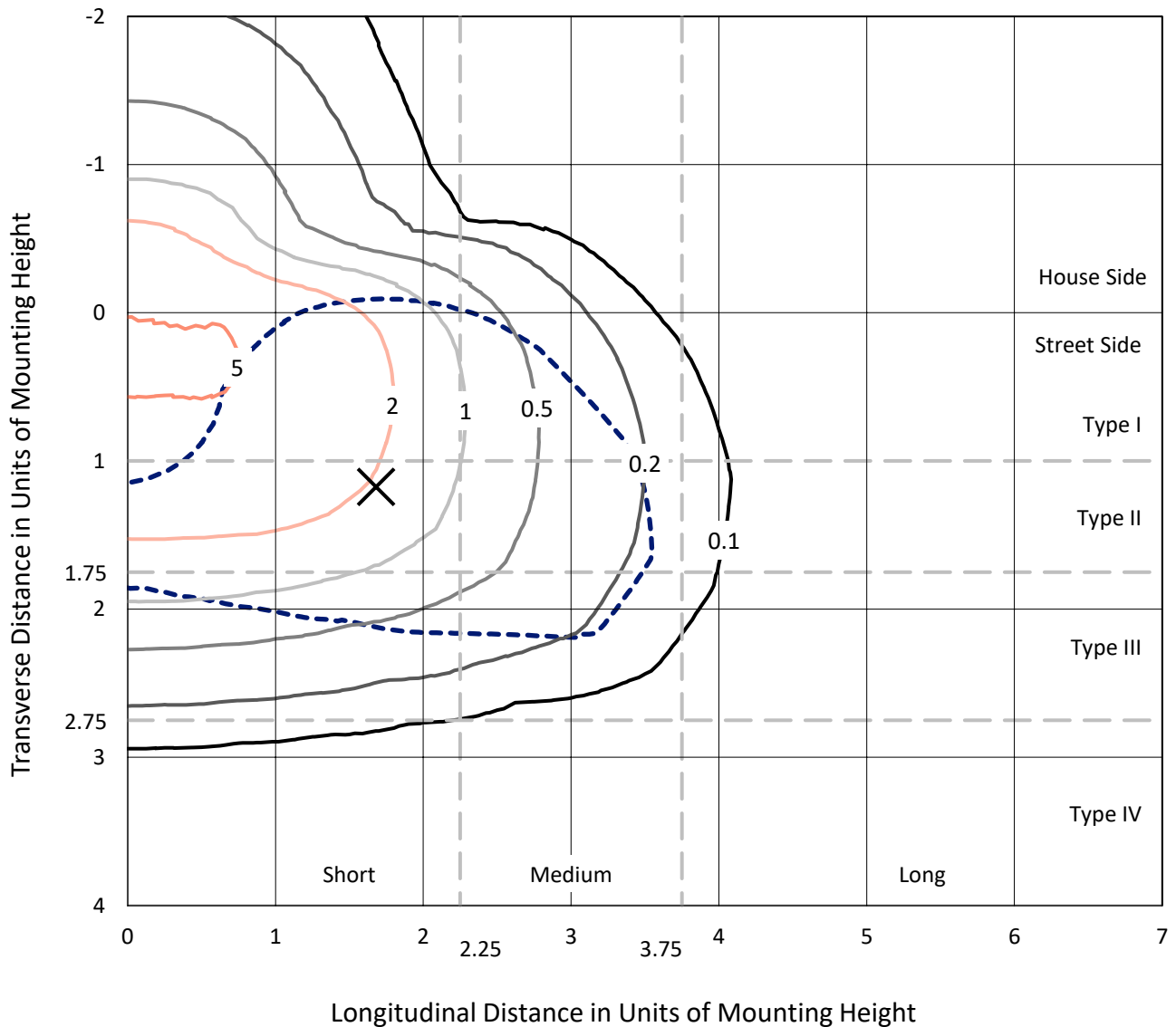
Input Watts (W): 213  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

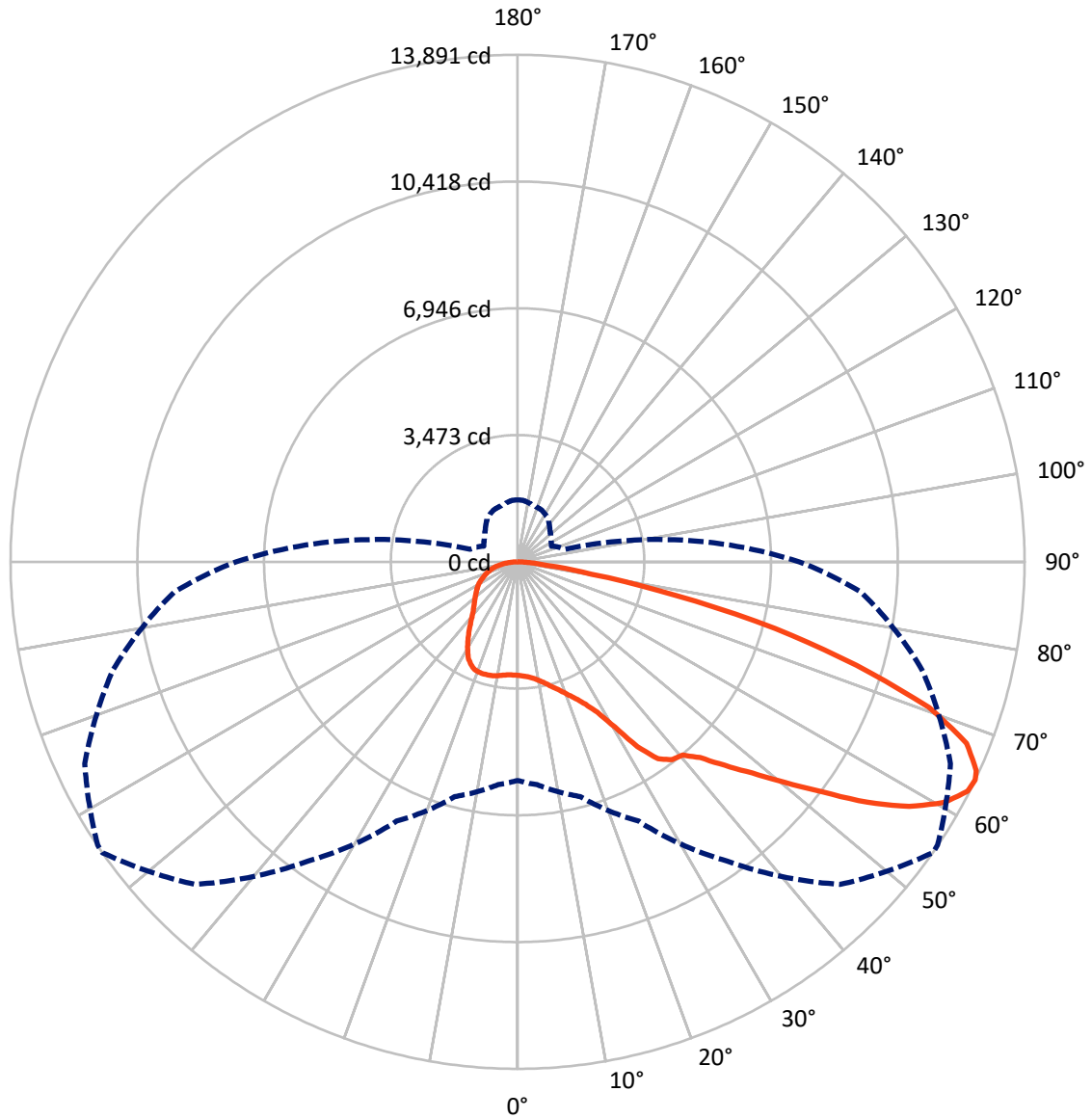
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.7 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral    - - - Horizontal Cone Through 64-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5634.5	0.0	5634.5
	% Fixture	24.3	0.0	24.3
<b>Street Side</b>	Lumens	17560.3	0.0	17560.3
	% Fixture	75.7	0.0	75.7
<b>Total</b>	Lumens	23194.8	0.0	23194.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	302.7	1.3
10°-20°	955.2	4.1
20°-30°	1700.5	7.3
30°-40°	2616.3	11.3
40°-50°	3708.9	16.0
50°-60°	5368.5	23.1
60°-70°	5555.8	24.0
70°-80°	2601.8	11.2
80°-90°	385.2	1.7
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°	23194.8	100.0
0°-180°	23194.8	100.0

**Coefficient of Utilization**



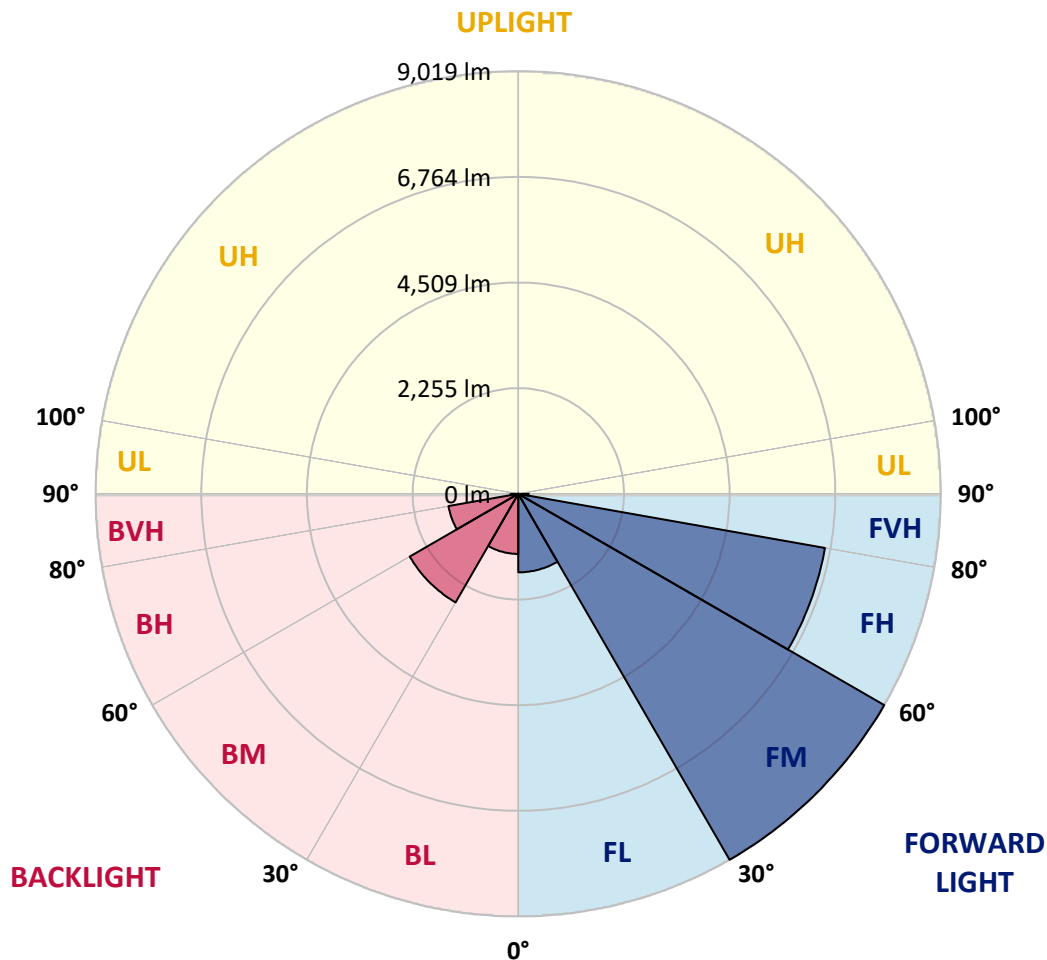
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1675.0	7.2			
FM (30°-60°)	9018.8	38.9			
FH (60°-80°)	6646.0	28.7			G3/7500
FVH (80°-90°)	220.5	1.0			G2/225
BL (0°-30°)	1283.3	5.5	B3/2500		
BM (30°-60°)	2674.9	11.5	B3/5000		
BH (60°-80°)	1511.6	6.5	B3/2500		G3/2500
BVH (80°-90°)	164.6	0.7			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G3**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	3112.0	3112.0	3112.0	3112.0	3112.0	3112.0	3112.0	3112.0	3112.0	3112.0	3112.0
2.5°	3146.9	3145.7	3149.5	3145.7	3148.2	3139.2	3135.3	3137.9	3134.0	3127.6	3115.9
5°	3185.7	3184.4	3185.7	3180.6	3183.2	3178.0	3168.9	3171.5	3165.0	3150.8	3134.0
7.5°	3251.6	3246.5	3246.5	3245.3	3240.0	3232.3	3225.8	3223.2	3216.7	3198.7	3172.8
10°	3337.0	3337.0	3338.3	3327.9	3334.4	3320.2	3313.7	3312.4	3290.5	3267.2	3231.0
12.5°	3449.5	3455.9	3452.1	3446.9	3444.3	3439.2	3417.2	3422.4	3397.8	3357.7	3313.7
15°	3589.1	3599.5	3593.0	3590.4	3583.9	3564.6	3555.5	3551.6	3519.3	3461.1	3402.9
17.5°	3774.0	3761.1	3755.9	3749.4	3722.3	3708.1	3692.6	3690.0	3661.5	3593.0	3502.5
20°	3935.6	3953.7	3943.4	3936.9	3909.7	3882.6	3871.0	3867.1	3842.5	3767.5	3622.8
22.5°	4128.3	4132.2	4136.0	4120.5	4107.6	4086.9	4066.2	4059.8	4050.7	3973.1	3796.0
25°	4333.8	4349.3	4336.4	4320.9	4305.4	4304.1	4323.5	4320.9	4317.0	4242.0	4026.1
27.5°	4668.7	4682.9	4686.8	4670.0	4610.5	4615.7	4659.6	4673.9	4733.3	4609.3	4322.2
30°	4857.4	4871.7	4904.0	4967.4	5061.7	5144.5	5250.5	5282.8	5339.8	5105.7	4673.9
32.5°	4973.8	4979.0	5037.2	5154.8	5438.0	5747.0	6035.4	6047.0	6083.1	5754.7	4995.8
35°	5157.4	5161.3	5207.8	5337.2	5669.4	6184.0	6630.0	6644.2	6614.5	5956.5	5145.8
37.5°	5383.7	5394.0	5423.8	5531.1	5928.0	6549.9	6877.0	6866.7	6602.9	6116.8	5410.8
40°	5713.4	5713.4	5678.4	5823.3	6200.8	6759.4	6963.6	6945.5	6875.7	6580.9	5814.3
42.5°	6004.3	5999.1	6081.9	6180.1	6542.1	7082.6	7327.0	7356.6	7471.8	7164.1	6273.2
45°	6383.1	6406.4	6452.9	6631.4	7122.7	7634.7	7950.1	7978.6	8141.5	7850.6	6809.7
47.5°	6765.8	6773.6	6919.7	7157.6	7841.5	8383.3	8641.9	8688.4	8837.1	8653.5	7387.7
50°	7037.3	7111.0	7345.0	7720.0	8582.3	9296.1	9497.7	9553.3	9815.8	9527.4	8061.3
52.5°	7324.4	7396.8	7682.5	8253.9	9433.1	10229.5	10477.8	10515.3	10788.1	10411.8	8750.4
55°	7570.0	7637.2	7961.7	8727.1	10110.6	11182.4	11632.3	11588.4	11718.9	11093.2	9281.8
57.5°	7610.0	7664.4	8072.9	9029.7	10620.0	11999.6	12644.7	12670.5	12519.3	11602.6	9720.1
60°	7299.8	7411.0	7880.3	8997.4	10848.8	12568.4	13399.7	13417.8	12988.6	11863.7	9894.6
62.5°	6750.3	6738.7	7306.3	8477.6	10528.1	12697.7	13844.5	13825.1	13172.2	11738.3	9725.3
64°	5991.4	6131.0	6661.1	7839.0	10011.0	12498.6	13891.0	13880.7	13084.3	11477.2	9436.9
65°	5528.5	5520.7	6044.4	7316.6	9496.4	12198.6	13808.3	13794.1	12900.7	11243.2	9213.3
67.5°	3991.2	4009.3	4526.5	5646.1	7720.0	11025.9	13269.1	13216.1	12176.7	10467.4	8362.6
70°	2417.7	2428.1	2834.1	3745.6	5541.4	8913.3	11960.7	11963.3	11068.7	9308.9	7117.5
72.5°	1273.5	1300.7	1463.6	2126.8	3365.4	6253.8	9703.3	9933.5	9502.9	7944.9	5622.8
75°	708.5	712.4	827.5	1048.6	1717.0	3499.9	7293.3	7359.3	7523.4	6394.7	4158.0
77.5°	540.4	548.2	584.4	677.5	934.8	1622.6	4414.0	4745.0	5302.3	4508.3	2372.5
80°	438.3	446.1	477.1	532.7	621.9	769.3	2050.5	2229.0	2838.0	2001.4	925.7
82.5°	341.4	336.1	376.3	412.4	452.5	455.1	841.7	930.9	1155.9	861.1	400.8
85°	253.4	253.4	285.8	278.0	292.2	266.3	371.0	409.8	462.9	365.9	186.2
87.5°	100.8	111.2	187.5	168.1	130.6	104.7	137.1	144.8	160.3	143.5	77.5
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°	3112.0	3112.0	3112.0	3112.0	3112.0	3112.0	3112.0	3112.0	3112.0	3112.0	3112.0
2.5°	3117.3	3121.1	3112.0	3105.6	3103.0	3099.1	3095.2	3096.6	3101.7	3106.9	3105.6
5°	3132.7	3134.0	3118.5	3110.8	3105.6	3100.4	3100.4	3104.3	3114.6	3122.4	3122.4
7.5°	3171.5	3171.5	3149.5	3135.3	3127.6	3118.5	3115.9	3117.3	3125.0	3135.3	3136.6
10°	3232.3	3227.1	3198.7	3176.7	3162.5	3140.5	3121.1	3110.8	3114.6	3121.1	3121.1
12.5°	3306.0	3291.8	3255.5	3225.8	3190.9	3149.5	3109.4	3088.7	3087.5	3094.0	3091.3
15°	3384.9	3369.3	3318.9	3264.6	3203.9	3143.1	3095.2	3065.5	3042.2	3035.8	3050.0
17.5°	3476.6	3444.3	3374.5	3299.5	3209.0	3130.1	3055.2	2994.4	2953.0	2941.4	2945.3
20°	3587.8	3545.2	3450.8	3333.1	3205.1	3083.6	2967.2	2885.8	2818.5	2797.8	2800.4
22.5°	3741.7	3668.0	3529.7	3350.0	3172.8	2995.6	2834.1	2728.0	2646.6	2614.2	2633.7
25°	3916.2	3836.1	3604.6	3346.1	3088.7	2854.8	2676.3	2538.0	2464.3	2416.4	2426.8
27.5°	4156.7	4014.5	3684.8	3311.2	2968.6	2682.8	2475.9	2345.4	2278.1	2253.5	2265.1
30°	4464.4	4246.0	3771.5	3216.7	2778.5	2465.6	2274.2	2188.9	2148.8	2117.8	2128.2
32.5°	4686.8	4408.9	3790.8	3057.7	2572.9	2267.8	2137.1	2073.8	2029.8	2000.2	2006.6
35°	4845.8	4547.2	3781.8	2862.5	2358.2	2104.9	2028.6	1976.9	1905.8	1841.1	1829.5
37.5°	5059.2	4720.4	3715.8	2649.2	2146.2	1994.9	1940.7	1845.0	1742.8	1656.2	1652.3
40°	5386.3	4923.4	3574.9	2398.4	1965.2	1913.5	1847.6	1723.5	1613.5	1543.7	1538.5
42.5°	5723.8	5110.8	3383.5	2134.6	1816.6	1828.2	1748.0	1625.2	1558.0	1512.7	1507.6
45°	6136.2	5313.9	3176.7	1905.8	1706.6	1748.0	1661.4	1590.2	1550.2	1520.4	1512.7
47.5°	6582.3	5522.0	2943.9	1700.2	1613.5	1674.3	1625.2	1592.9	1570.9	1550.2	1541.1
50°	7063.1	5754.7	2725.4	1534.7	1529.5	1598.1	1621.3	1609.7	1596.7	1590.2	1582.5
52.5°	7590.7	5992.6	2541.8	1418.3	1455.9	1543.7	1622.6	1631.6	1631.6	1627.8	1622.6
55°	7947.5	6158.1	2355.7	1323.9	1380.8	1499.8	1620.0	1654.9	1667.9	1662.7	1657.5
57.5°	8211.3	6248.6	2121.7	1242.5	1317.5	1457.1	1605.8	1657.5	1670.5	1676.9	1674.3
60°	8265.6	6164.6	1815.2	1157.1	1249.0	1395.1	1554.1	1618.8	1635.5	1675.6	1679.5
62.5°	8021.2	5906.0	1510.1	1073.1	1165.0	1300.7	1484.3	1574.8	1608.4	1670.5	1676.9
64°	7721.3	5616.5	1340.7	1020.1	1110.6	1247.6	1449.4	1563.2	1607.1	1689.8	1695.0
65°	7501.5	5405.7	1234.8	986.5	1075.7	1212.7	1430.0	1567.0	1618.8	1719.6	1727.3
67.5°	6692.1	4680.3	1021.4	907.6	993.0	1153.3	1433.8	1599.3	1616.1	1731.2	1729.9
70°	5537.6	3726.1	855.9	835.2	912.8	1105.4	1418.3	1547.6	1548.9	1625.2	1607.1
72.5°	4146.4	2753.9	742.1	760.3	823.6	991.6	1339.5	1477.8	1455.9	1466.2	1448.0
75°	2848.3	1821.7	638.7	680.0	730.5	876.6	1228.3	1342.1	1307.2	1294.2	1281.3
77.5°	1520.4	1007.2	531.4	601.2	634.8	757.7	1071.9	1181.7	1145.5	1095.1	1078.3
80°	615.4	474.5	428.0	497.8	517.1	610.2	892.1	960.7	933.5	845.5	817.1
82.5°	309.0	284.4	336.1	391.7	393.1	435.7	663.3	727.9	667.2	559.9	535.3
85°	161.6	166.8	231.4	275.4	243.0	235.3	398.2	440.9	404.7	351.7	316.8
87.5°	58.2	67.2	121.5	120.3	85.4	45.2	87.9	42.6	23.3	14.2	18.1
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)