

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: P647027

Luminaire Tested: **GALN-SA6C-835-U-T3R**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P647027  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-8)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA6C-835-U-T3R  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 80 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 33405.1 lumens  
Efficiency: N/A  
Efficacy: 104.1 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B3 - U0 - G5

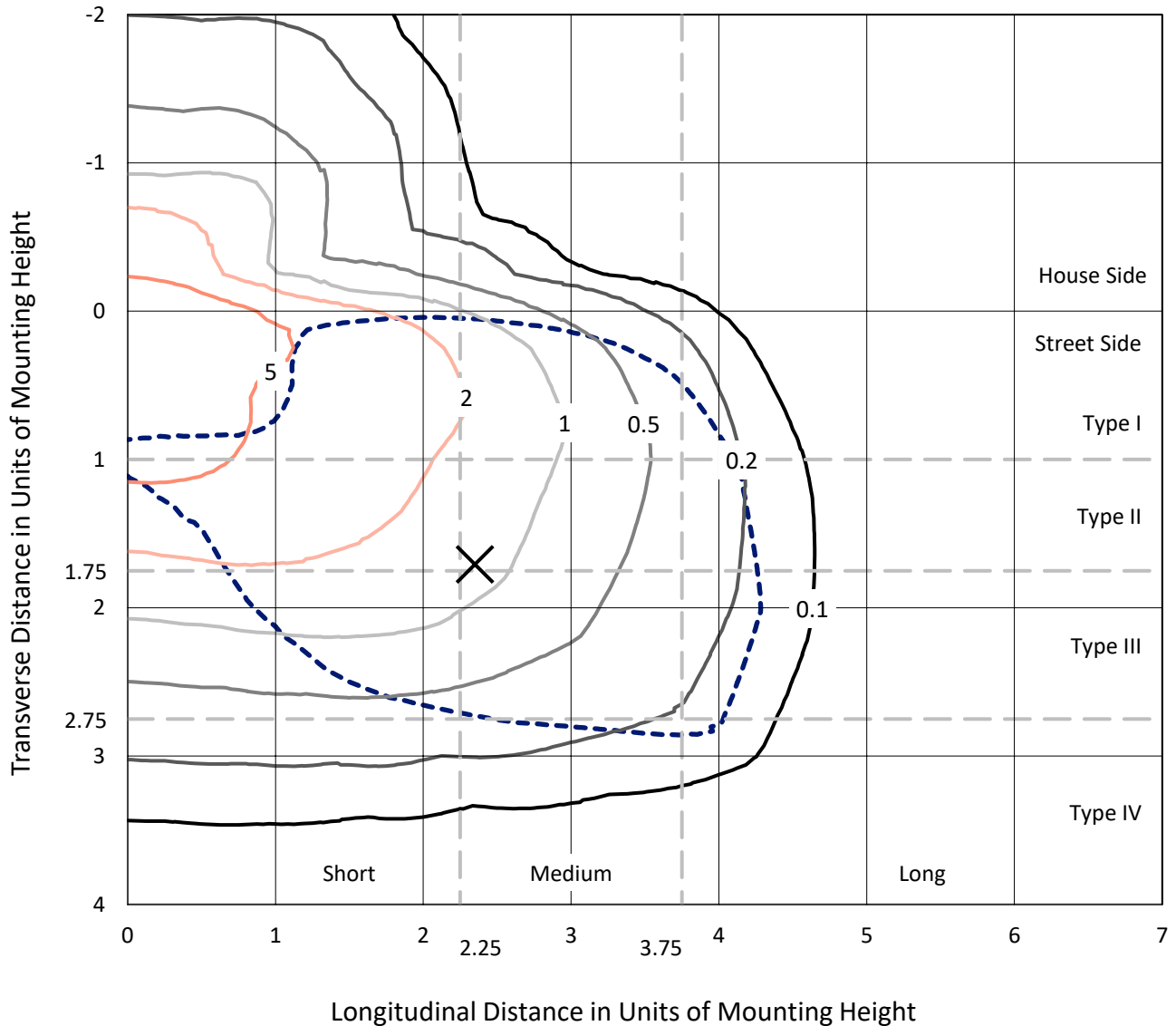
Input Watts (W): 321  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

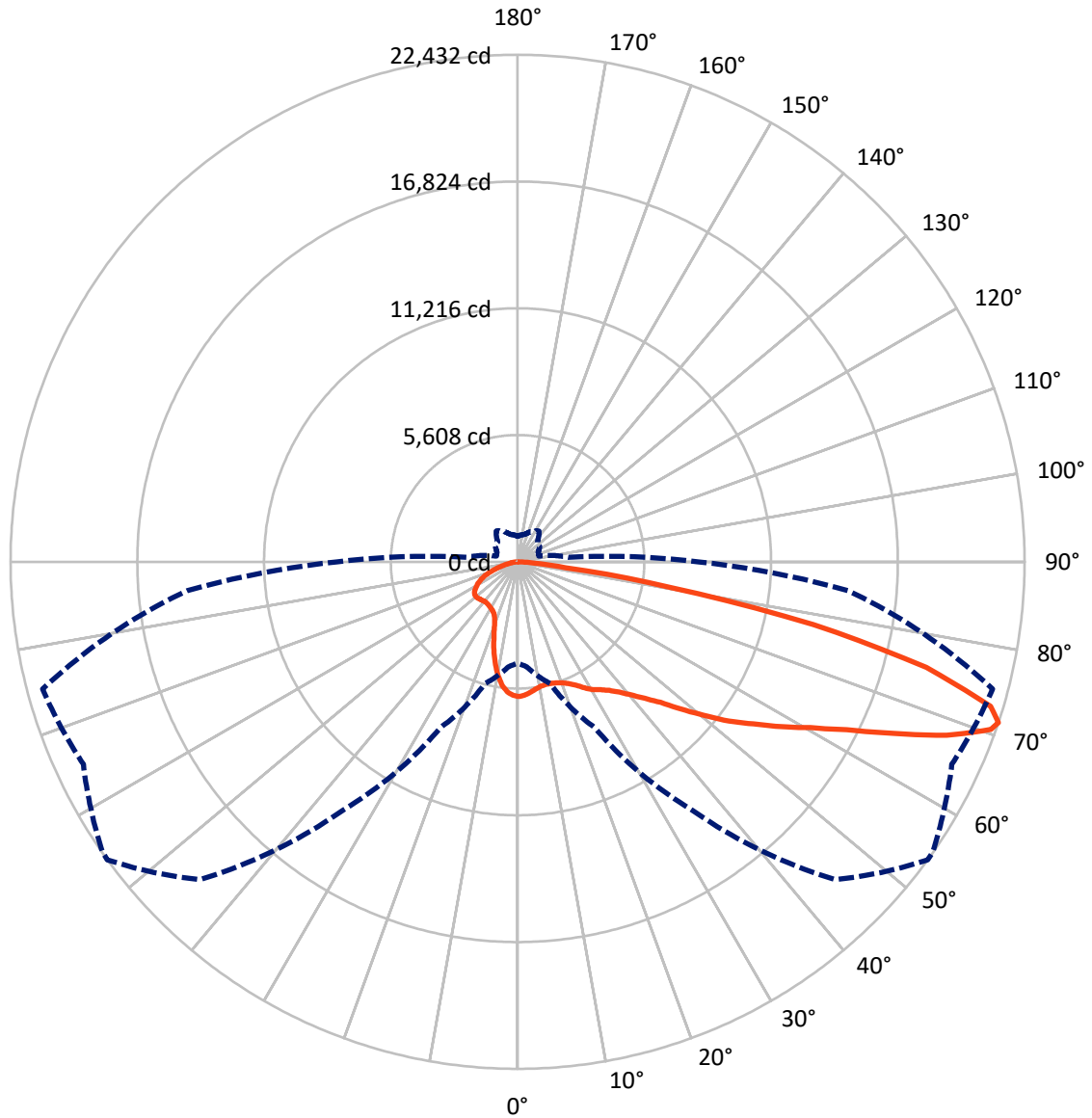
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.6 fc  
 Type IV - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral      - - - Horizontal Cone Through 71-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6031.1	0.0	6031.1
	% Fixture	18.1	0.0	18.1
<b>Street Side</b>	Lumens	27374.0	0.0	27374.0
	% Fixture	81.9	0.0	81.9
<b>Total</b>	Lumens	33405.1	0.0	33405.1
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	531.1	1.6
10°-20°	1402.4	4.2
20°-30°	2335.1	7.0
30°-40°	3452.9	10.3
40°-50°	4863.5	14.6
50°-60°	6512.4	19.5
60°-70°	8208.4	24.6
70°-80°	5606.3	16.8
80°-90°	493.0	1.5
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°	33405.1	100.0
0°-180°	33405.1	100.0

**Coefficient of Utilization**

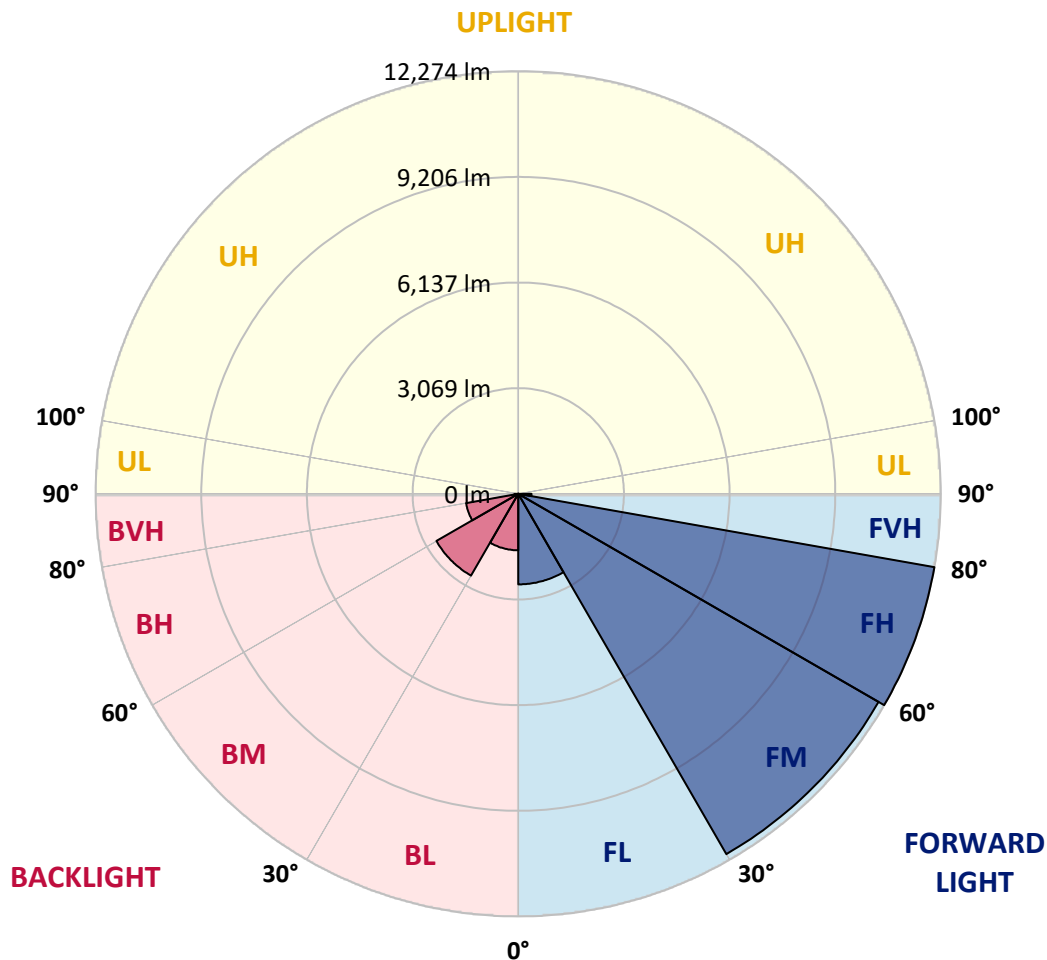


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2629.5	7.9			
FM (30°-60°)	12084.8	36.2			
FH (60°-80°)	12274.4	36.7			G5
FVH (80°-90°)	385.4	1.2			G3/500
BL (0°-30°)	1639.1	4.9	B3/2500		
BM (30°-60°)	2743.9	8.2	B3/5000		
BH (60°-80°)	1540.3	4.6	B3/2500		G3/2500
BVH (80°-90°)	107.7	0.3			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G5**  
 Type IV Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	5960.0	5960.0	5960.0	5960.0	5960.0	5960.0	5960.0	5960.0	5960.0	5960.0	5960.0
2.5°	5757.9	5785.0	5792.2	5810.2	5848.1	5878.8	5909.5	5905.9	5949.2	5967.2	5983.5
5°	5501.7	5508.9	5536.0	5572.0	5638.8	5723.6	5806.6	5808.4	5914.9	5999.7	6041.2
7.5°	5314.0	5337.5	5355.5	5393.4	5463.8	5555.8	5687.5	5698.4	5887.8	6055.6	6144.0
10°	5191.3	5218.4	5238.2	5285.1	5355.5	5458.4	5600.9	5620.8	5868.0	6144.0	6299.2
12.5°	5079.4	5106.5	5124.5	5185.9	5277.9	5404.2	5564.8	5588.3	5875.2	6246.9	6468.8
15°	5148.0	5169.6	5162.4	5180.5	5241.8	5386.2	5579.3	5602.7	5902.3	6346.1	6636.6
17.5°	5453.0	5471.0	5411.4	5342.9	5314.0	5420.5	5624.4	5649.6	5956.4	6448.9	6808.0
20°	5902.3	5951.0	5821.1	5667.7	5528.7	5543.2	5718.2	5745.3	6032.2	6551.8	6983.1
22.5°	6486.8	6522.9	6364.1	6111.5	5855.4	5723.6	5859.0	5875.2	6145.8	6685.3	7174.3
25°	7174.3	7196.0	6975.8	6651.0	6281.1	6032.2	6052.0	6080.9	6333.5	6836.9	7344.0
27.5°	7842.0	7910.6	7656.1	7259.1	6771.9	6356.9	6317.2	6335.3	6537.3	6921.7	7461.2
30°	8634.1	8628.7	8359.9	7899.7	7275.4	6710.6	6568.0	6564.4	6647.4	6963.2	7546.1
32.5°	9265.6	9339.6	9076.2	8574.6	7851.0	7076.9	6741.3	6734.0	6732.2	7035.4	7672.4
35°	9983.8	9994.6	9752.8	9247.6	8473.5	7537.0	6983.1	6947.0	6905.5	7190.6	7843.8
37.5°	10626.2	10676.7	10454.8	9888.2	9085.2	8015.2	7315.1	7291.6	7165.3	7459.4	8118.1
40°	11127.8	11165.7	11032.2	10492.7	9687.9	8531.3	7737.3	7694.0	7540.6	7899.7	8484.4
42.5°	11292.0	11369.6	11421.9	11156.7	10380.8	9142.9	8257.0	8202.9	8085.6	8567.4	8906.5
45°	11304.6	11427.3	11703.4	11716.0	11077.3	9875.5	8863.2	8825.3	8816.3	9422.6	9500.2
47.5°	11209.0	11333.5	11797.2	12048.0	11698.0	10615.4	9738.4	9678.9	9684.3	10480.0	10166.1
50°	10978.1	11126.0	11688.9	12261.0	12183.4	11384.0	10662.3	10642.4	10754.3	11687.1	10857.2
52.5°	10543.2	10721.8	11577.1	12394.5	12544.3	12046.2	11712.4	11656.5	11939.8	12997.2	11613.2
55°	9339.6	9608.5	11167.5	12468.5	12887.1	12679.6	12658.0	12759.0	13134.3	14426.3	12445.0
57.5°	8711.7	8913.8	10277.9	12481.1	13320.2	13415.8	13762.2	13787.5	14444.3	15943.8	13385.2
60°	8368.9	8547.5	9790.7	12398.1	13924.6	14327.0	14891.8	14982.0	15723.7	17587.6	14359.5
62.5°	8069.4	8222.7	9498.4	12111.2	14606.7	15678.6	16355.1	16398.5	17176.2	19402.8	15321.3
65°	7363.8	7538.8	8910.1	11824.3	15195.0	17367.5	18296.8	18246.2	18722.5	20969.1	15923.9
67.5°	6412.8	6634.8	7811.3	10833.7	15485.5	19213.3	20483.7	20420.5	20249.1	21995.8	16097.1
70°	5198.5	5317.6	6405.6	9121.3	14325.2	20182.4	22210.5	22143.7	21194.6	22131.1	15278.0
71°	4473.1	4659.0	5577.5	8101.8	13359.9	19886.4	22432.4	22414.4	21196.4	21757.6	14660.8
72.5°	3491.6	3605.2	4417.2	6277.5	11355.1	18204.7	21883.9	21952.5	20736.3	20720.1	13388.8
75°	2208.6	2259.1	2771.6	3695.4	6230.6	12892.5	18681.0	18866.9	18412.2	16959.6	9956.7
77.5°	1282.9	1347.9	1660.0	2177.9	2692.2	6997.5	13367.1	13569.2	12793.3	9337.8	4076.1
80°	747.1	819.2	1093.5	1264.9	1236.0	2596.6	6806.2	7150.9	5539.6	2358.4	1144.0
82.5°	415.0	463.8	768.7	770.5	658.6	848.1	2141.8	2241.1	1580.6	951.0	467.4
85°	301.3	341.0	496.2	449.3	315.8	364.5	745.3	781.3	638.8	400.6	151.6
87.5°	106.5	151.6	272.5	216.5	86.6	75.8	214.7	175.0	162.4	111.9	34.3
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°	5960.0	5960.0	5960.0	5960.0	5960.0	5960.0	5960.0	5960.0	5960.0	5960.0	5960.0
2.5°	5992.5	5996.1	5978.0	5945.6	5913.1	5871.6	5824.7	5788.6	5772.3	5770.5	5768.7
5°	6057.4	6066.4	5997.9	5896.9	5785.0	5647.8	5530.5	5397.0	5362.7	5308.6	5324.8
7.5°	6162.1	6156.7	6021.3	5806.6	5545.0	5254.5	5009.0	4866.5	4718.5	4677.0	4678.8
10°	6311.8	6277.5	6021.3	5622.6	5185.9	4754.6	4411.8	4195.2	4077.9	3980.5	3944.4
12.5°	6470.6	6384.0	5963.6	5364.5	4723.9	4195.2	3827.1	3534.9	3459.1	3379.7	3381.5
15°	6622.2	6477.8	5849.9	5001.8	4225.9	3598.0	3240.8	3065.7	3042.3	3051.3	3049.5
17.5°	6759.3	6544.6	5676.7	4597.6	3644.9	3085.6	2896.1	2908.7	2971.9	3017.0	3022.4
20°	6898.2	6584.3	5418.7	4056.3	3096.4	2775.2	2782.4	2881.7	2977.3	3038.7	3047.7
22.5°	7030.0	6602.3	5115.5	3533.1	2699.4	2643.5	2749.9	2856.4	2950.2	3009.8	3018.8
25°	7116.6	6560.8	4686.0	2986.3	2504.5	2596.6	2708.4	2798.7	2878.1	2939.4	2953.8
27.5°	7140.0	6427.3	4153.7	2544.2	2414.3	2551.4	2654.3	2721.1	2782.4	2840.2	2851.0
30°	7127.4	6230.6	3569.1	2284.4	2362.0	2499.1	2578.5	2627.2	2701.2	2746.3	2755.3
32.5°	7107.6	6001.5	2959.3	2145.4	2318.7	2450.4	2497.3	2540.6	2538.8	2520.8	2533.4
35°	7114.8	5727.2	2464.8	2062.4	2280.8	2414.3	2454.0	2399.9	2244.7	2237.5	2230.2
37.5°	7152.7	5456.6	2105.7	2004.7	2260.9	2408.9	2430.5	2181.5	2044.4	1981.2	1965.0
40°	7250.1	5140.8	1869.3	1961.4	2259.1	2450.4	2324.1	2071.4	1808.0	1685.3	1676.3
42.5°	7380.0	4830.4	1725.0	1934.3	2280.8	2513.5	2280.8	1916.3	1629.3	1557.2	1546.3
45°	7573.1	4474.9	1645.6	1921.7	2313.2	2537.0	2266.3	1802.6	1557.2	1499.4	1499.4
47.5°	7791.5	4135.7	1602.3	1912.7	2354.8	2520.8	2138.2	1766.5	1522.9	1530.1	1564.4
50°	8008.0	3841.6	1569.8	1892.8	2390.8	2511.7	2085.9	1764.7	1531.9	1623.9	1685.3
52.5°	8258.8	3634.1	1530.1	1860.3	2390.8	2454.0	2069.6	1800.8	1557.2	1584.2	1611.3
55°	8561.9	3569.1	1479.6	1789.9	2347.5	2309.6	2060.6	1853.1	1575.2	1512.1	1522.9
57.5°	8962.5	3673.8	1430.9	1701.5	2248.3	2159.9	2057.0	1867.5	1533.7	1481.4	1470.6
60°	9428.0	3881.3	1416.4	1611.3	2113.0	2031.7	2035.4	1826.0	1476.0	1421.8	1430.9
62.5°	9754.6	4005.8	1407.4	1542.7	1965.0	1891.0	1983.0	1775.5	1450.7	1403.8	1412.8
65°	9754.6	3854.2	1324.4	1438.1	1773.7	1721.4	1919.9	1712.4	1418.2	1364.1	1355.1
67.5°	9384.7	3412.2	1198.1	1281.1	1562.6	1528.3	1831.5	1636.6	1369.5	1328.0	1306.4
70°	8421.2	2587.5	1039.4	1097.1	1295.6	1326.2	1717.8	1533.7	1288.3	1237.8	1205.4
71°	7997.2	2253.7	972.6	1003.3	1192.7	1237.8	1663.6	1490.4	1252.3	1180.1	1122.4
72.5°	7179.7	1898.2	871.6	884.2	1019.5	1100.7	1550.0	1407.4	1183.7	1080.9	1015.9
75°	5454.8	1385.8	701.9	694.7	754.3	873.4	1311.8	1254.1	1037.6	898.6	860.7
77.5°	2356.6	754.3	525.1	530.5	512.5	662.2	1032.2	1077.3	889.6	730.8	696.5
80°	714.6	434.9	359.1	366.3	342.9	443.9	727.2	844.5	714.6	568.4	521.5
82.5°	366.3	259.8	245.4	241.8	218.3	250.8	440.3	577.4	510.7	355.5	314.0
85°	158.8	138.9	120.9	117.3	102.9	90.2	157.0	288.7	270.7	198.5	189.5
87.5°	39.7	36.1	23.5	21.7	12.6	1.8	0.0	0.0	0.0	0.0	0.0
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)