

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: P455318

Luminaire Tested: **GALN-SA6C-727-U-T3R**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P455318  
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-727-U-T3R  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 70 CRI, 2700K, 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: 35679 lumens  
Efficiency: N/A  
Efficacy: 111.1 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B3 - U0 - G5

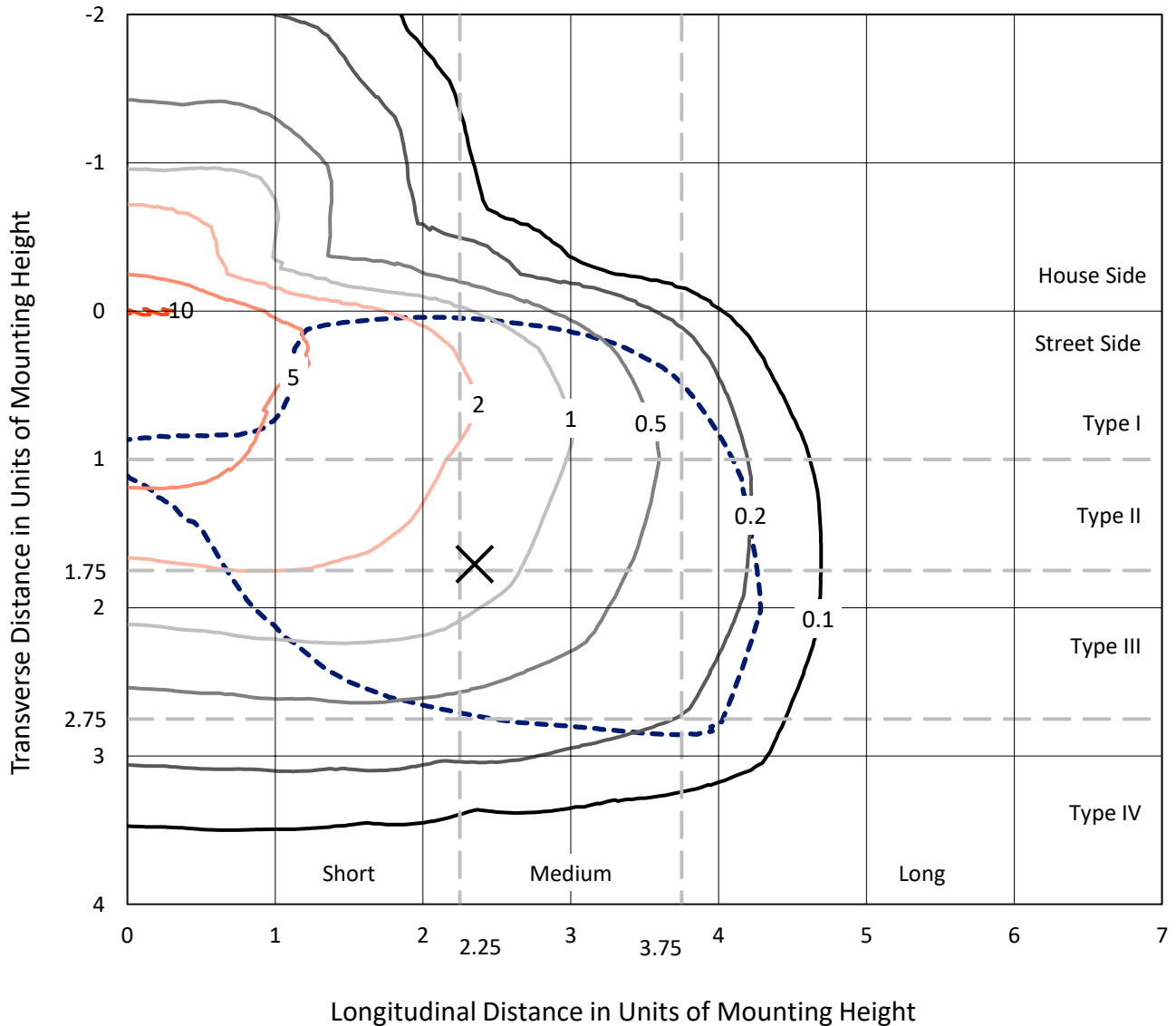
Input Watts (W): 321  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

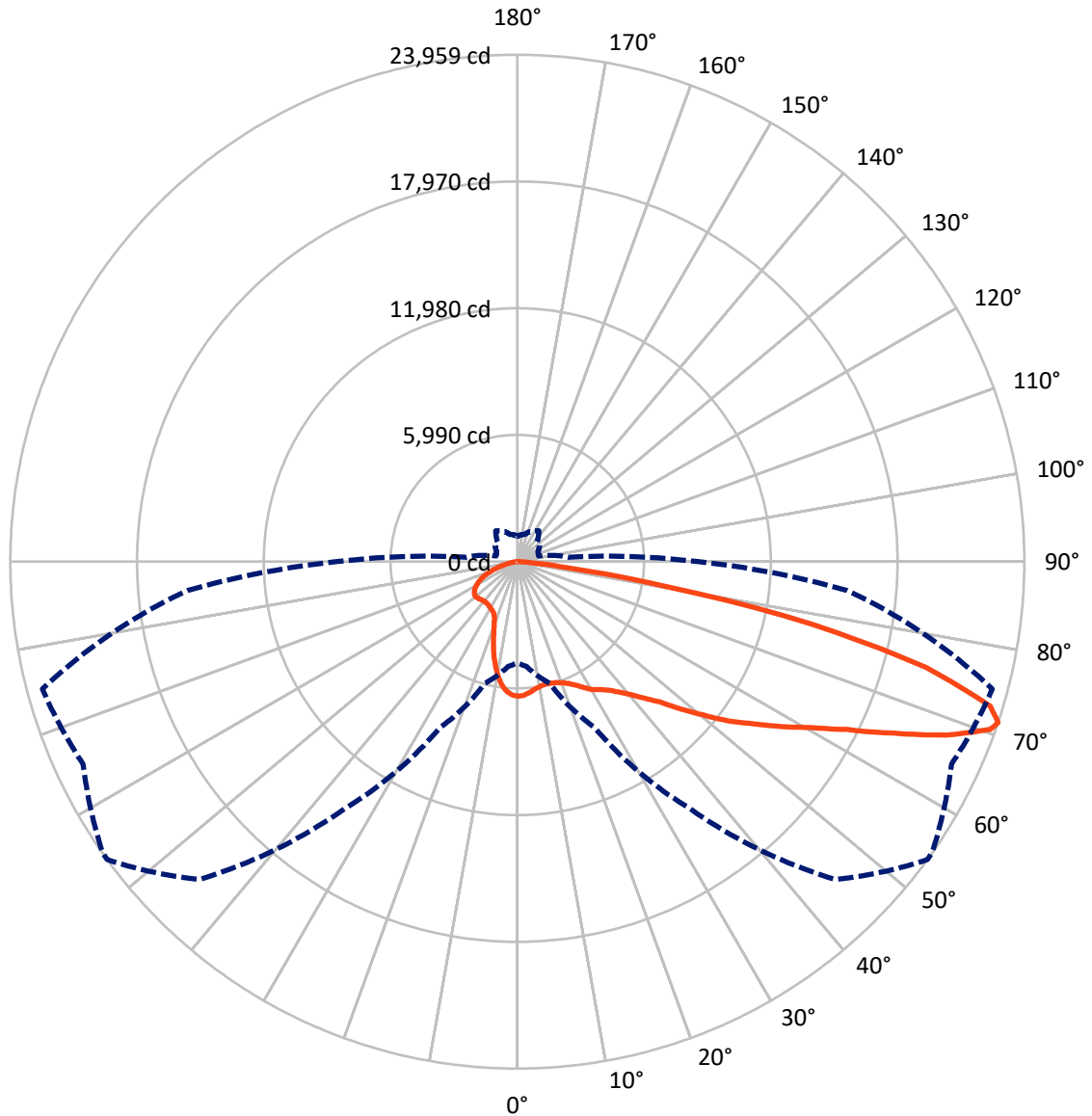
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.3 fc  
 Type IV - Medium - N/A

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CATALOG NUMBER: GALN-SA6C-727-U-T3R

### 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	6441.6	0.0	6441.6
	% Fixture	18.1	0.0	18.1
<b>Street Side</b>	Lumens	29237.4	0.0	29237.4
	% Fixture	81.9	0.0	81.9
<b>Total</b>	Lumens	35679.0	0.0	35679.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	567.3	1.6
10°-20°	1497.9	4.2
20°-30°	2494.1	7.0
30°-40°	3687.9	10.3
40°-50°	5194.5	14.6
50°-60°	6955.7	19.5
60°-70°	8767.1	24.6
70°-80°	5987.9	16.8
80°-90°	526.6	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°	35679.0	100.0
0°-180°	35679.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P455318

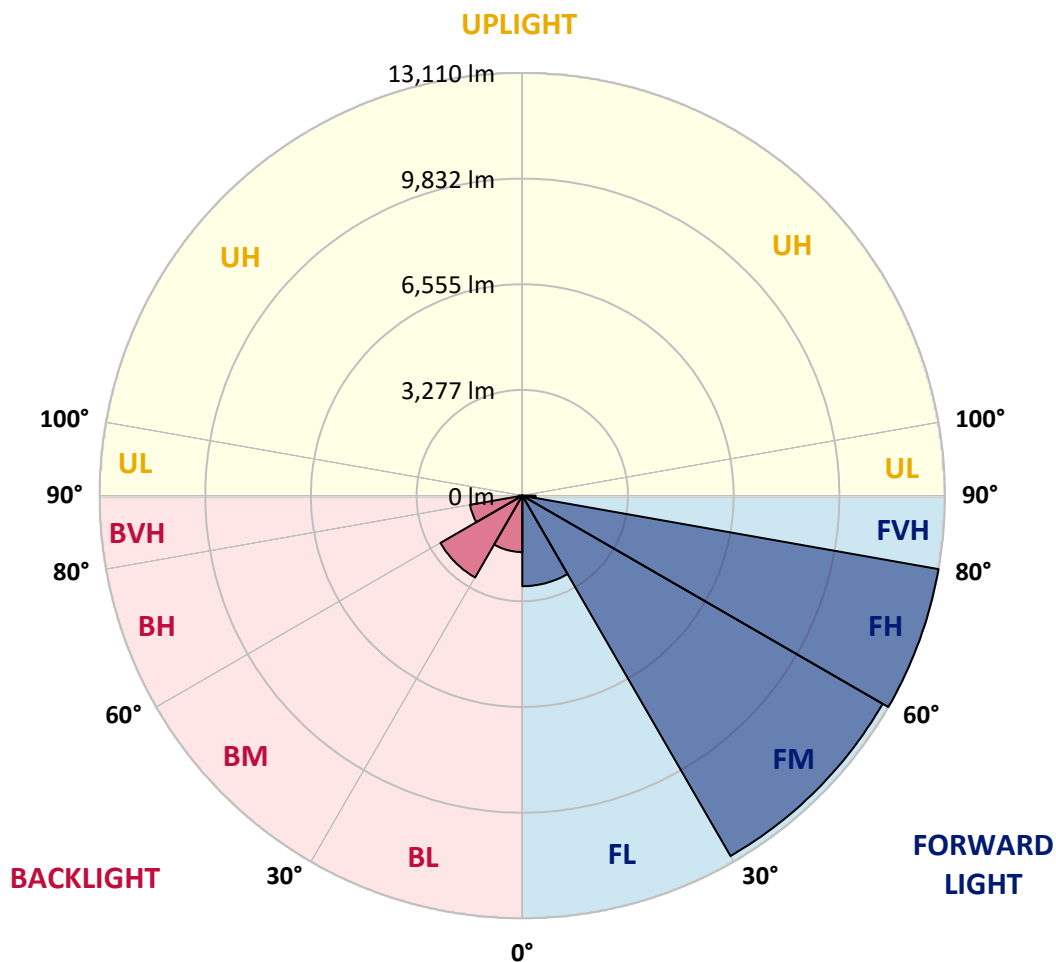
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2808.5	7.9			
FM	(30°-60°)	12907.4	36.2			
FH	(60°-80°)	13109.9	36.7			G5
FVH	(80°-90°)	411.6	1.2			G3/500
BL	(0°-30°)	1750.7	4.9	B3/2500		
BM	(30°-60°)	2930.7	8.2	B3/5000		
BH	(60°-80°)	1645.2	4.6	B3/2500		G3/2500
BVH	(80°-90°)	115.0	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°	6365.7	6365.7	6365.7	6365.7	6365.7	6365.7	6365.7	6365.7	6365.7	6365.7	6365.7
2.5°	6149.8	6178.7	6186.4	6205.7	6246.2	6278.9	6311.7	6307.8	6354.1	6373.4	6390.7
5°	5876.1	5883.9	5912.8	5951.3	6022.6	6113.2	6201.8	6203.8	6317.5	6408.1	6452.4
7.5°	5675.7	5700.8	5720.0	5760.5	5835.7	5934.0	6074.6	6086.2	6288.6	6467.8	6562.2
10°	5544.7	5573.6	5594.8	5644.9	5720.0	5829.9	5982.1	6003.3	6267.4	6562.2	6728.0
12.5°	5425.2	5454.1	5473.4	5538.9	5637.2	5772.1	5943.6	5968.7	6275.1	6672.1	6909.1
15°	5498.4	5521.5	5513.8	5533.1	5598.6	5752.8	5959.0	5984.1	6304.0	6778.1	7088.4
17.5°	5824.1	5843.4	5779.8	5706.5	5675.7	5789.4	6007.2	6034.2	6361.8	6887.9	7271.5
20°	6304.0	6356.0	6217.3	6053.4	5905.1	5920.5	6107.4	6136.3	6442.8	6997.8	7458.4
22.5°	6928.4	6967.0	6797.4	6527.5	6253.9	6113.2	6257.7	6275.1	6564.2	7140.4	7662.7
25°	7662.7	7685.8	7450.7	7103.8	6708.7	6442.8	6464.0	6494.8	6764.6	7302.3	7843.9
27.5°	8375.8	8449.0	8177.3	7753.3	7232.9	6789.7	6747.3	6766.5	6982.4	7392.9	7969.1
30°	9221.8	9216.0	8928.9	8437.4	7770.6	7167.4	7015.1	7011.3	7099.9	7437.2	8059.7
32.5°	9896.4	9975.4	9694.0	9158.2	8385.4	7558.6	7200.2	7192.4	7190.5	7514.3	8194.6
35°	10663.4	10675.0	10416.7	9877.1	9050.3	8050.1	7458.4	7419.9	7375.5	7680.0	8377.7
37.5°	11349.5	11403.5	11166.4	10561.3	9703.6	8560.8	7813.0	7788.0	7653.1	7967.2	8670.6
40°	11885.3	11925.7	11783.1	11206.9	10347.3	9112.0	8264.0	8217.7	8053.9	8437.4	9061.9
42.5°	12060.6	12143.5	12199.4	11916.1	11087.4	9765.3	8819.0	8761.2	8635.9	9150.5	9512.8
45°	12074.1	12205.2	12500.1	12513.5	11831.3	10547.8	9466.6	9426.1	9416.5	10064.0	10146.9
47.5°	11972.0	12105.0	12600.3	12868.2	12494.3	11337.9	10401.3	10337.7	10343.5	11193.4	10858.0
50°	11725.3	11883.3	12484.6	13095.6	13012.7	12158.9	11388.0	11366.8	11486.3	12482.7	11596.2
52.5°	11260.8	11451.6	12365.1	13238.2	13398.1	12866.2	12509.7	12449.9	12752.5	13881.9	12403.7
55°	9975.4	10262.5	11927.7	13317.2	13764.3	13542.7	13519.6	13627.5	14028.4	15408.3	13292.1
57.5°	9304.7	9520.5	10977.5	13330.7	14226.9	14329.0	14699.0	14726.0	15427.5	17029.1	14296.2
60°	8938.5	9129.3	10457.2	13242.0	14872.5	15302.3	15905.5	16001.8	16793.9	18784.8	15336.9
62.5°	8618.6	8782.4	10145.0	12935.6	15601.0	16745.8	17468.5	17514.7	18345.4	20723.6	16364.2
65°	7865.1	8052.0	9516.7	12629.2	16229.3	18549.7	19542.2	19488.2	19997.0	22396.4	17007.9
67.5°	6849.4	7086.4	8343.0	11571.1	16539.5	20521.2	21878.0	21810.5	21627.4	23493.0	17192.9
70°	5552.4	5679.6	6841.7	9742.2	15300.3	21556.1	23722.4	23651.0	22637.3	23637.6	16317.9
71°	4777.6	4976.1	5957.1	8653.3	14269.3	21240.1	23959.4	23940.1	22639.2	23238.6	15658.8
72.5°	3729.2	3850.6	4717.9	6704.9	12128.1	19443.9	23373.5	23446.8	22147.8	22130.5	14300.1
75°	2358.9	2412.9	2960.2	3947.0	6654.7	13770.1	19952.7	20151.2	19665.5	18114.1	10634.5
77.5°	1370.3	1439.6	1773.1	2326.2	2875.4	7473.8	14277.0	14492.8	13664.1	9973.4	4353.6
80°	797.9	875.0	1167.9	1351.0	1320.2	2773.3	7269.5	7637.6	5916.6	2518.9	1221.9
82.5°	443.3	495.3	821.0	822.9	703.4	905.8	2287.6	2393.6	1688.3	1015.7	499.2
85°	321.8	364.2	530.0	479.9	337.3	389.3	795.9	834.5	682.2	427.8	161.9
87.5°	113.7	161.9	291.0	231.3	92.5	80.9	229.3	186.9	173.5	119.5	36.6
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°	6365.7	6365.7	6365.7	6365.7	6365.7	6365.7	6365.7	6365.7	6365.7	6365.7	6365.7
2.5°	6400.4	6404.2	6384.9	6350.2	6315.6	6271.2	6221.1	6182.6	6165.2	6163.3	6161.4
5°	6469.7	6479.4	6406.1	6298.2	6178.7	6032.2	5907.0	5764.4	5727.7	5669.9	5687.3
7.5°	6581.5	6575.7	6431.2	6201.8	5922.4	5612.1	5350.0	5197.8	5039.7	4995.4	4997.3
10°	6741.5	6704.9	6431.2	6005.3	5538.9	5078.3	4712.1	4480.8	4355.6	4251.5	4212.9
12.5°	6911.1	6818.6	6369.5	5729.7	5045.5	4480.8	4087.7	3775.5	3694.5	3609.7	3611.6
15°	7073.0	6918.8	6248.1	5342.3	4513.6	3842.9	3461.3	3274.4	3249.3	3259.0	3257.0
17.5°	7219.4	6990.1	6063.1	4910.6	3893.0	3295.6	3093.2	3106.7	3174.2	3222.3	3228.1
20°	7367.8	7032.5	5787.5	4332.4	3307.1	2964.1	2971.8	3077.8	3179.9	3245.5	3255.1
22.5°	7508.5	7051.8	5463.7	3773.5	2883.1	2823.4	2937.1	3050.8	3151.0	3214.6	3224.3
25°	7601.0	7007.4	5005.0	3189.6	2675.0	2773.3	2892.8	2989.1	3073.9	3139.5	3154.9
27.5°	7626.1	6864.8	4436.5	2717.4	2578.6	2725.1	2835.0	2906.3	2971.8	3033.5	3045.0
30°	7612.6	6654.7	3812.1	2439.9	2522.8	2669.2	2754.0	2806.1	2885.1	2933.3	2942.9
32.5°	7591.4	6410.0	3160.7	2291.5	2476.5	2617.2	2667.3	2713.5	2711.6	2692.3	2705.8
35°	7599.1	6117.0	2632.6	2202.8	2436.0	2578.6	2621.0	2563.2	2397.5	2389.8	2382.1
37.5°	7639.6	5828.0	2249.1	2141.2	2414.8	2572.9	2596.0	2330.0	2183.6	2116.1	2098.8
40°	7743.6	5490.7	1996.6	2094.9	2412.9	2617.2	2482.3	2212.5	1931.1	1800.0	1790.4
42.5°	7882.4	5159.2	1842.4	2066.0	2436.0	2684.6	2436.0	2046.7	1740.3	1663.2	1651.6
45°	8088.6	4779.5	1757.6	2052.5	2470.7	2709.7	2420.6	1925.3	1663.2	1601.5	1601.5
47.5°	8321.8	4417.2	1711.4	2042.9	2515.0	2692.3	2283.8	1886.8	1626.6	1634.3	1670.9
50°	8553.1	4103.1	1676.7	2021.7	2553.6	2682.7	2227.9	1884.8	1636.2	1734.5	1800.0
52.5°	8821.0	3881.5	1634.3	1987.0	2553.6	2621.0	2210.5	1923.4	1663.2	1692.1	1721.0
55°	9144.7	3812.1	1580.3	1911.8	2507.3	2466.9	2200.9	1979.3	1682.5	1615.0	1626.6
57.5°	9572.6	3923.9	1528.3	1817.4	2401.3	2306.9	2197.0	1994.7	1638.2	1582.3	1570.7
60°	10069.8	4145.5	1512.9	1721.0	2256.8	2170.1	2173.9	1950.4	1576.5	1518.7	1528.3
62.5°	10418.6	4278.5	1503.2	1647.8	2098.8	2019.7	2118.0	1896.4	1549.5	1499.4	1509.0
65°	10418.6	4116.6	1414.6	1536.0	1894.5	1838.6	2050.6	1828.9	1514.8	1457.0	1447.4
67.5°	10023.6	3644.4	1279.7	1368.3	1669.0	1632.4	1956.1	1748.0	1462.8	1418.4	1395.3
70°	8994.4	2763.7	1110.1	1171.8	1383.8	1416.5	1834.7	1638.2	1376.0	1322.1	1287.4
71°	8541.5	2407.1	1038.8	1071.5	1273.9	1322.1	1776.9	1591.9	1337.5	1260.4	1198.7
72.5°	7668.5	2027.5	930.9	944.3	1088.9	1175.6	1655.5	1503.2	1264.3	1154.4	1085.0
75°	5826.0	1480.1	749.7	742.0	805.6	932.8	1401.1	1339.4	1108.2	959.8	919.3
77.5°	2517.0	805.6	560.8	566.6	547.3	707.3	1102.4	1150.6	950.1	780.5	743.9
80°	763.2	464.5	383.5	391.2	366.2	474.1	776.7	901.9	763.2	607.1	557.0
82.5°	391.2	277.5	262.1	258.2	233.2	267.9	470.2	616.7	545.4	379.7	335.3
85°	169.6	148.4	129.1	125.3	109.9	96.4	167.7	308.4	289.1	212.0	202.4
87.5°	42.4	38.5	25.1	23.1	13.5	1.9	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)