

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: P522886

Luminaire Tested: **GALN-SA8C-735-U-T4W**

Issue Date: 5/13/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P522886  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2011-042-41)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/13/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA8C-735-U-T4W  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 70 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 52923 lumens  
Efficiency: N/A  
Efficacy: 123.4 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B4 - U0 - G5

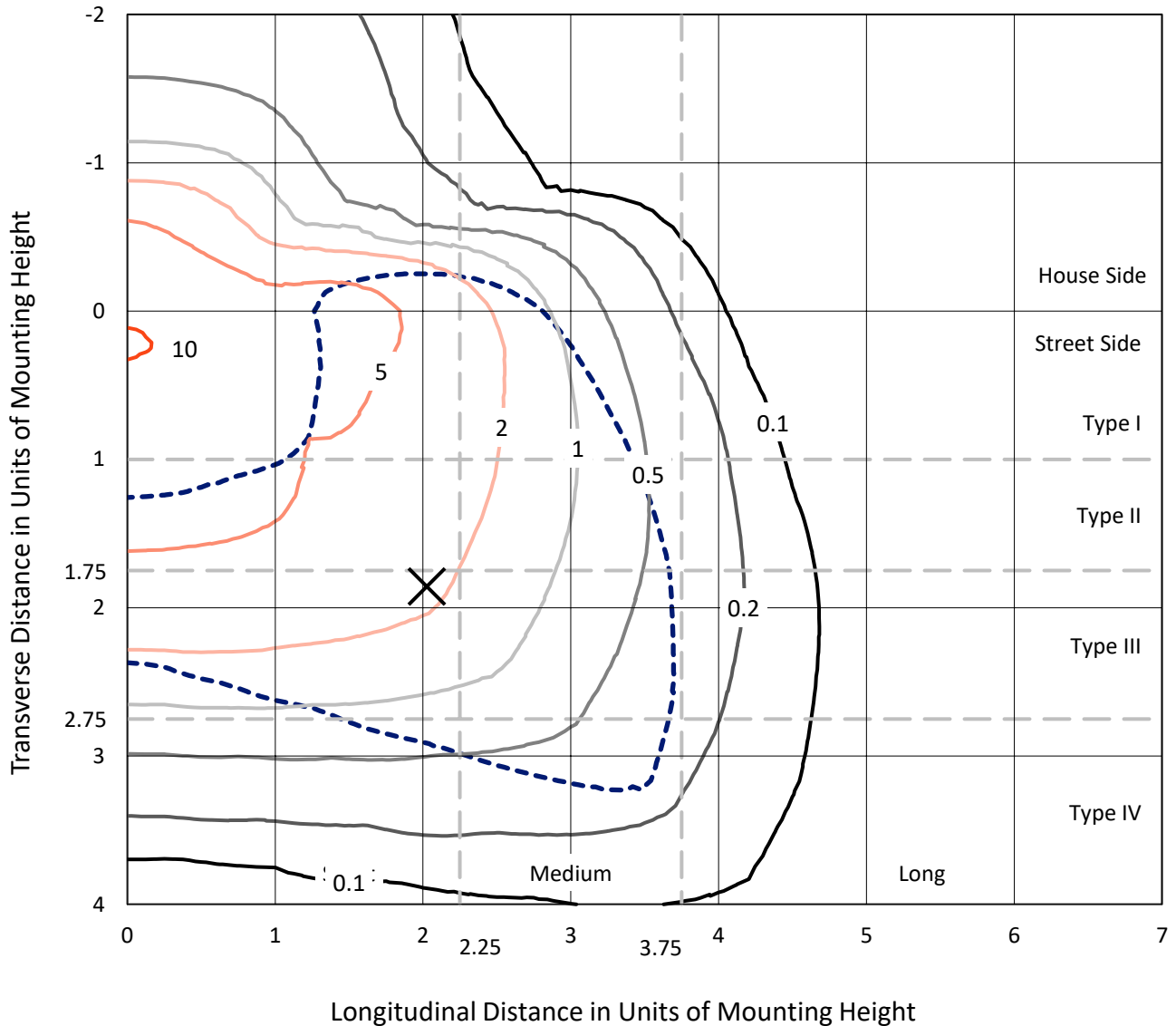
Input Watts (W): 429  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

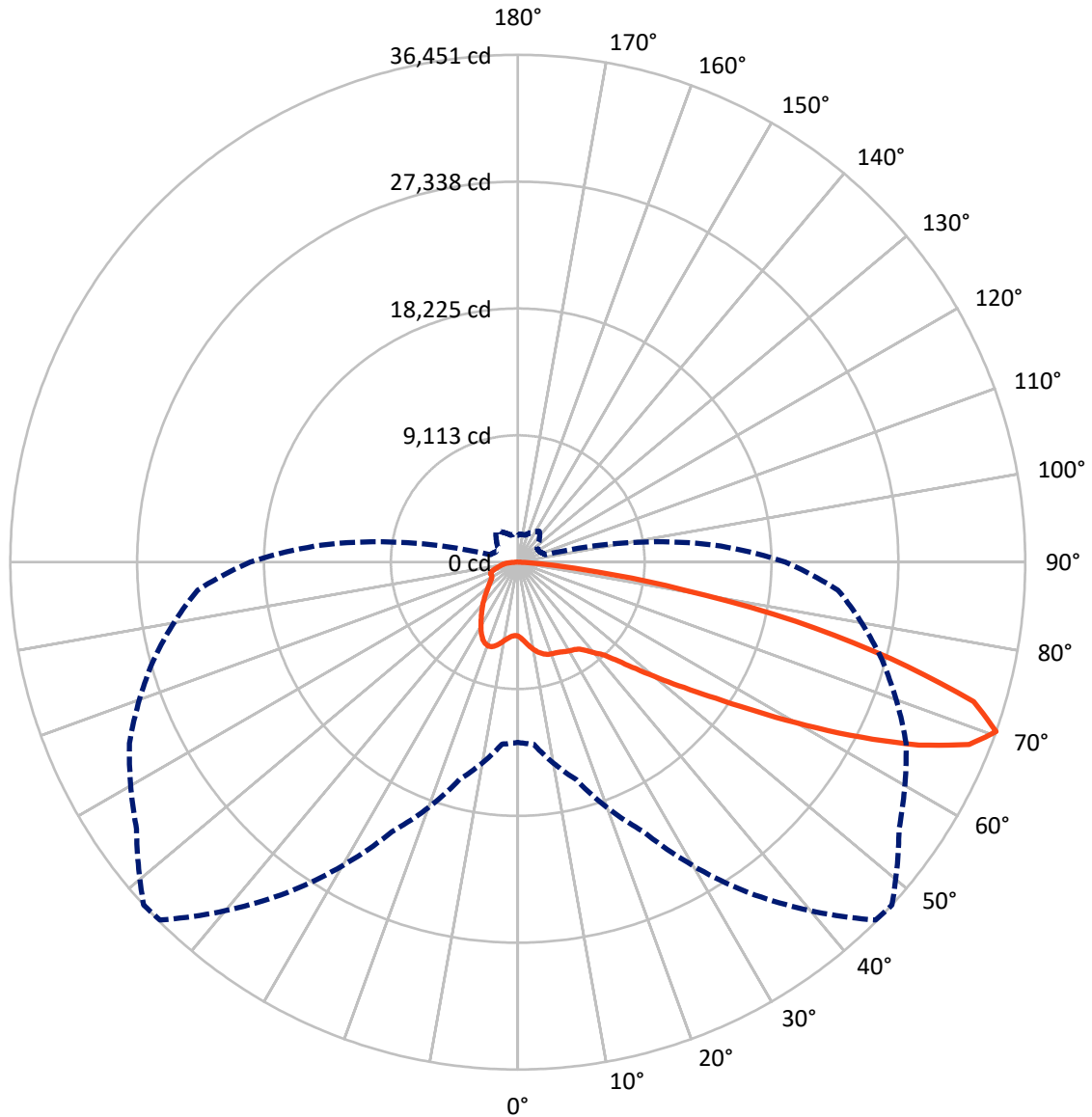
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.8 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 47.5-Deg Lateral    - - - Horizontal Cone Through 70-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	11982.8	0.0	11982.8
	% Fixture	22.6	0.0	22.6
<b>Street Side</b>	Lumens	40940.2	0.0	40940.2
	% Fixture	77.4	0.0	77.4
<b>Total</b>	Lumens	52923.0	0.0	52923.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	547.6	1.0
10°-20°	1830.8	3.5
20°-30°	3044.6	5.8
30°-40°	4315.3	8.2
40°-50°	6370.3	12.0
50°-60°	11033.6	20.8
60°-70°	15585.3	29.4
70°-80°	8959.3	16.9
80°-90°	1236.2	2.3
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°	52923.0	100.0
0°-180°	52923.0	100.0

**Coefficient of Utilization**



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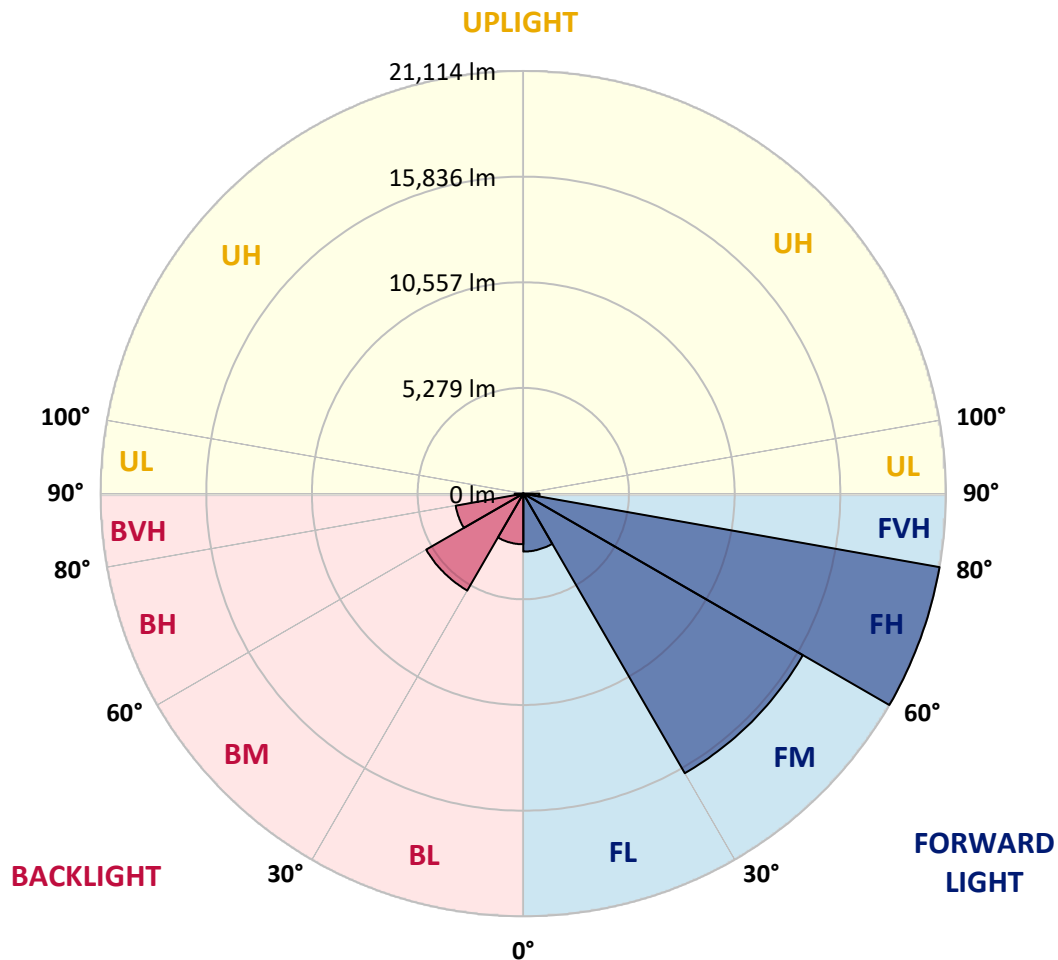
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2894.0	5.5			
FM	(30°-60°)	16124.6	30.5			
FH	(60°-80°)	21114.1	39.9			G5
FVH	(80°-90°)	807.5	1.5			G5
BL	(0°-30°)	2529.0	4.8	B4/5000		
BM	(30°-60°)	5594.6	10.6	B4/8500		
BH	(60°-80°)	3430.5	6.5	B4/5000		G4/5000
BVH	(80°-90°)	428.7	0.8			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G5**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	47.5°	55°	65°	75°	85°
0°	5312.8	5312.8	5312.8	5312.8	5312.8	5312.8	5312.8	5312.8	5312.8	5312.8	5312.8
2.5°	5655.5	5635.7	5632.8	5590.4	5567.7	5525.2	5508.2	5468.6	5420.4	5372.3	5327.0
5°	6100.1	6100.1	6080.3	6020.8	5927.4	5831.1	5788.6	5712.1	5576.2	5465.8	5372.3
7.5°	6556.1	6561.7	6522.1	6434.3	6301.2	6145.4	6105.8	5992.5	5799.9	5638.5	5499.7
10°	6949.7	6949.7	6895.9	6777.0	6609.9	6440.0	6400.3	6272.9	6057.6	5856.6	5675.3
12.5°	7249.9	7249.9	7179.1	7023.4	6842.1	6689.2	6643.9	6522.1	6321.0	6097.3	5867.9
15°	7445.3	7431.2	7351.9	7176.3	7000.7	6867.6	6836.4	6734.5	6550.4	6323.9	6066.1
17.5°	7453.8	7448.2	7371.7	7224.4	7071.5	6980.9	6961.1	6893.1	6748.7	6533.4	6261.6
20°	7289.6	7300.9	7249.9	7145.1	7071.5	7031.9	7023.4	7000.7	6898.8	6697.7	6425.8
22.5°	7114.0	7133.8	7085.7	7029.0	7023.4	7063.0	7068.7	7074.3	7009.2	6813.8	6564.6
25°	7071.5	7085.7	7037.5	6986.5	7017.7	7122.5	7145.1	7167.8	7116.8	6952.6	6728.8
27.5°	7286.7	7275.4	7182.0	7071.5	7091.3	7232.9	7264.1	7289.6	7264.1	7122.5	6932.7
30°	7895.6	7858.8	7671.9	7349.0	7247.1	7346.2	7377.4	7448.2	7448.2	7343.4	7153.6
32.5°	8915.1	8844.3	8501.7	7867.3	7513.3	7453.8	7485.0	7601.1	7660.6	7578.4	7371.7
35°	10152.7	10079.1	9589.2	8736.7	8000.4	7669.1	7660.6	7790.8	7949.4	7765.3	7496.3
37.5°	11396.0	11319.5	10730.4	9773.2	8711.2	8122.2	8071.2	8116.5	8184.5	7847.5	7669.1
40°	12639.2	12548.6	12033.2	10931.5	9580.7	8722.6	8589.5	8385.6	8357.2	8116.5	8003.2
42.5°	13871.1	13789.0	13528.5	12231.4	10622.8	9308.8	9104.9	8753.7	8861.3	8716.9	8617.8
45°	15114.4	15120.0	14842.5	13689.9	11880.2	10390.6	10115.9	9566.5	9821.4	9767.6	9824.2
47.5°	16216.0	16201.9	16102.8	15105.9	13440.7	11784.0	11430.0	10792.8	11228.9	11427.1	11860.4
50°	17283.7	17275.2	17280.9	16711.6	15253.2	13440.7	13049.9	12381.5	13364.2	14052.4	14828.4
52.5°	18813.0	18861.1	18518.4	18368.4	17456.4	15397.6	14967.1	14276.1	15887.5	16972.2	18487.3
55°	20347.9	20308.3	20039.2	20195.0	19761.7	17714.2	17263.9	16714.5	18696.9	19883.5	22160.4
57.5°	21251.3	21265.5	21540.2	22302.0	22607.9	20602.8	20195.0	19770.2	21854.5	22695.6	25428.5
60°	22064.1	22129.2	22919.4	24358.0	25187.8	24151.3	23788.8	23375.3	24751.7	25085.9	28266.2
62.5°	22319.0	22520.1	23899.2	26051.6	27702.6	28155.7	27705.5	26793.6	27510.1	27379.8	30189.1
65°	21047.4	21322.1	23794.5	26685.9	29948.4	31956.3	31670.3	29976.7	29860.6	29076.1	30503.5
67.5°	17700.0	17974.7	21149.4	25354.9	30877.3	35247.1	34961.0	32299.0	31287.9	29234.7	28124.6
70°	12950.7	13123.5	16159.4	21347.6	29011.0	36351.6	36450.7	33431.8	30778.2	27079.6	23092.1
72.5°	7462.3	7844.6	9971.5	15018.1	23701.0	33559.2	34247.4	31075.5	27555.4	22590.9	16145.2
75°	3208.7	3217.2	4610.5	8283.6	16051.8	26974.8	27640.3	25759.9	21639.3	15621.3	8620.6
77.5°	1526.4	1554.8	2027.7	3698.6	8835.8	18637.4	20432.9	18198.4	13840.0	7504.8	3256.8
80°	991.2	1011.0	1240.4	1835.1	4333.0	10806.9	12058.7	10498.2	6105.8	2681.9	1404.7
82.5°	600.4	606.0	829.8	1121.5	2384.5	4893.7	5768.8	4556.7	2605.4	1605.7	826.9
85°	365.3	368.2	504.1	693.8	1447.2	1690.7	1736.0	1721.9	1529.3	1050.7	441.8
87.5°	175.6	181.2	260.5	328.5	569.2	523.9	495.6	574.9	722.2	566.4	189.7
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°	5312.8	5312.8	5312.8	5312.8	5312.8	5312.8	5312.8	5312.8	5312.8	5312.8	5312.8
2.5°	5307.2	5298.7	5278.8	5270.4	5264.7	5267.5	5264.7	5264.7	5267.5	5267.5	5267.5
5°	5332.7	5318.5	5287.3	5287.3	5304.3	5344.0	5380.8	5409.1	5440.3	5437.4	5437.4
7.5°	5443.1	5417.6	5380.8	5392.1	5434.6	5496.9	5562.0	5624.4	5686.7	5692.3	5689.5
10°	5604.5	5579.0	5539.4	5553.6	5621.5	5715.0	5797.1	5887.7	5955.7	5975.5	5969.9
12.5°	5788.6	5737.6	5703.6	5743.3	5850.9	5975.5	6054.8	6122.8	6170.9	6199.2	6187.9
15°	5975.5	5927.4	5887.7	5969.9	6100.1	6216.2	6255.9	6267.2	6275.7	6304.0	6298.4
17.5°	6156.8	6091.6	6077.5	6185.1	6309.7	6360.7	6338.0	6289.9	6253.1	6275.7	6272.9
20°	6318.2	6267.2	6261.6	6369.2	6417.3	6369.2	6272.9	6187.9	6122.8	6128.4	6125.6
22.5°	6471.1	6431.5	6437.1	6482.4	6406.0	6241.7	6083.1	5967.0	5896.2	5910.4	5918.9
25°	6641.0	6601.4	6615.6	6541.9	6289.9	6003.8	5774.4	5675.3	5647.0	5675.3	5695.2
27.5°	6861.9	6836.4	6828.0	6544.8	6083.1	5652.7	5392.1	5355.3	5380.8	5443.1	5474.3
30°	7099.8	7099.8	7054.5	6496.6	5799.9	5230.7	5004.1	5009.8	5097.6	5185.4	5216.5
32.5°	7329.2	7377.4	7235.8	6366.3	5434.6	4820.1	4647.3	4653.0	4729.4	4837.1	4865.4
35°	7519.0	7657.7	7391.5	6128.4	5004.1	4474.6	4344.3	4267.8	4270.7	4352.8	4375.4
37.5°	7779.5	8037.2	7482.1	5774.4	4545.4	4180.0	4032.8	3899.7	3811.9	3777.9	3777.9
40°	8232.6	8612.1	7504.8	5250.5	4112.1	3899.7	3690.1	3531.5	3361.6	3208.7	3180.3
42.5°	9000.1	9478.7	7459.5	4647.3	3721.2	3591.0	3387.1	3191.7	2956.6	2741.4	2724.4
45°	10359.5	10605.8	7337.7	4021.4	3372.9	3293.6	3095.4	2883.0	2633.8	2441.2	2427.0
47.5°	12537.3	12188.9	7176.3	3466.4	3055.7	3033.1	2880.1	2633.8	2384.5	2251.4	2237.3
50°	15717.6	14681.1	7153.6	3064.2	2800.8	2812.2	2687.6	2461.0	2242.9	2132.5	2115.5
52.5°	19546.5	17691.5	7303.7	2781.0	2577.1	2619.6	2557.3	2347.7	2155.2	2061.7	2044.7
55°	23262.0	20398.9	7394.4	2560.1	2367.6	2446.8	2455.3	2279.8	2104.2	2010.7	1999.4
57.5°	26278.1	22437.9	6992.2	2359.1	2186.3	2308.1	2370.4	2240.1	2078.7	2007.9	1996.6
60°	28376.6	23400.8	5848.1	2180.6	2053.2	2197.6	2339.2	2242.9	2141.0	2149.5	2155.2
62.5°	29045.0	22973.2	4386.8	2047.5	1962.6	2160.8	2390.2	2359.1	2254.3	2319.4	2330.7
65°	27937.7	21206.0	3180.3	1942.8	1883.3	2186.3	2543.1	2444.0	2214.6	2262.8	2262.8
67.5°	24230.6	18269.2	2475.2	1846.5	1792.7	2234.4	2696.1	2435.5	2121.2	2177.8	2126.8
70°	19220.8	14131.7	2061.7	1738.8	1696.4	2163.6	2710.2	2347.7	2010.7	2022.0	1925.8
72.5°	12755.3	9291.8	1772.8	1636.9	1549.1	1945.6	2594.1	2234.4	1903.1	1838.0	1741.7
75°	6250.2	4633.2	1546.3	1509.5	1356.5	1693.5	2435.5	2126.8	1787.0	1685.0	1631.2
77.5°	2421.4	1971.1	1319.7	1348.0	1180.9	1492.5	2226.0	1973.9	1634.1	1495.3	1452.8
80°	1175.3	1118.6	1081.8	1124.3	971.4	1271.6	2033.4	1840.8	1492.5	1339.5	1277.2
82.5°	730.7	691.0	829.8	875.1	747.6	1161.1	1928.6	1727.5	1314.0	1110.1	1059.2
85°	371.0	396.5	555.1	597.6	535.2	923.2	1588.8	1297.1	948.7	787.3	793.0
87.5°	141.6	189.7	291.7	314.4	286.0	487.1	875.1	756.1	608.9	413.5	382.3
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)