

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: P651045

Luminaire Tested: **GALN-SA7C-840-U-T4FT**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P651045  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-28)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA7C-840-U-T4FT  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 80 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV  
FORWARD THROW OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 41091.3 lumens  
Efficiency: N/A  
Efficacy: 109.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G5

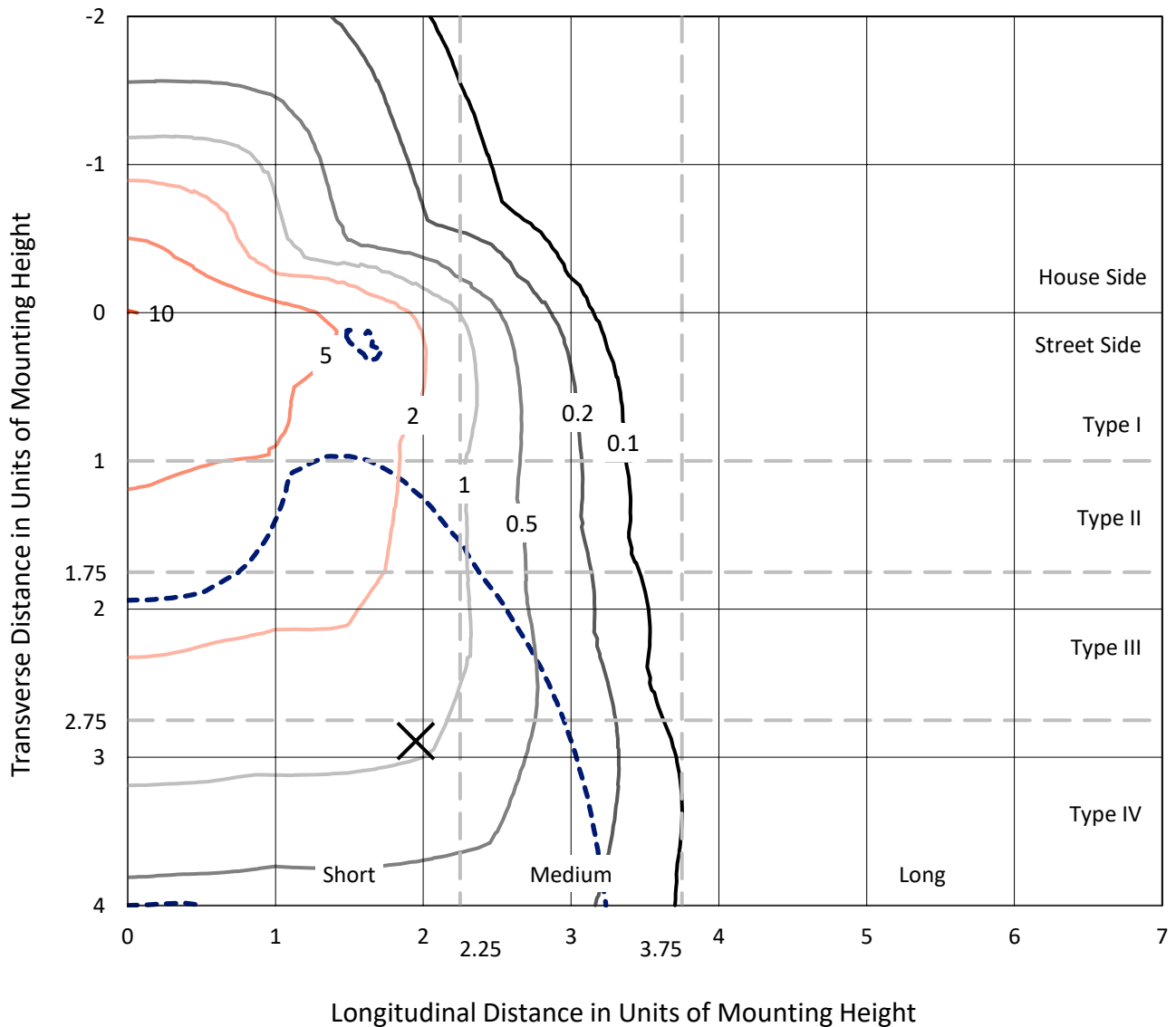
Input Watts (W): 377  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

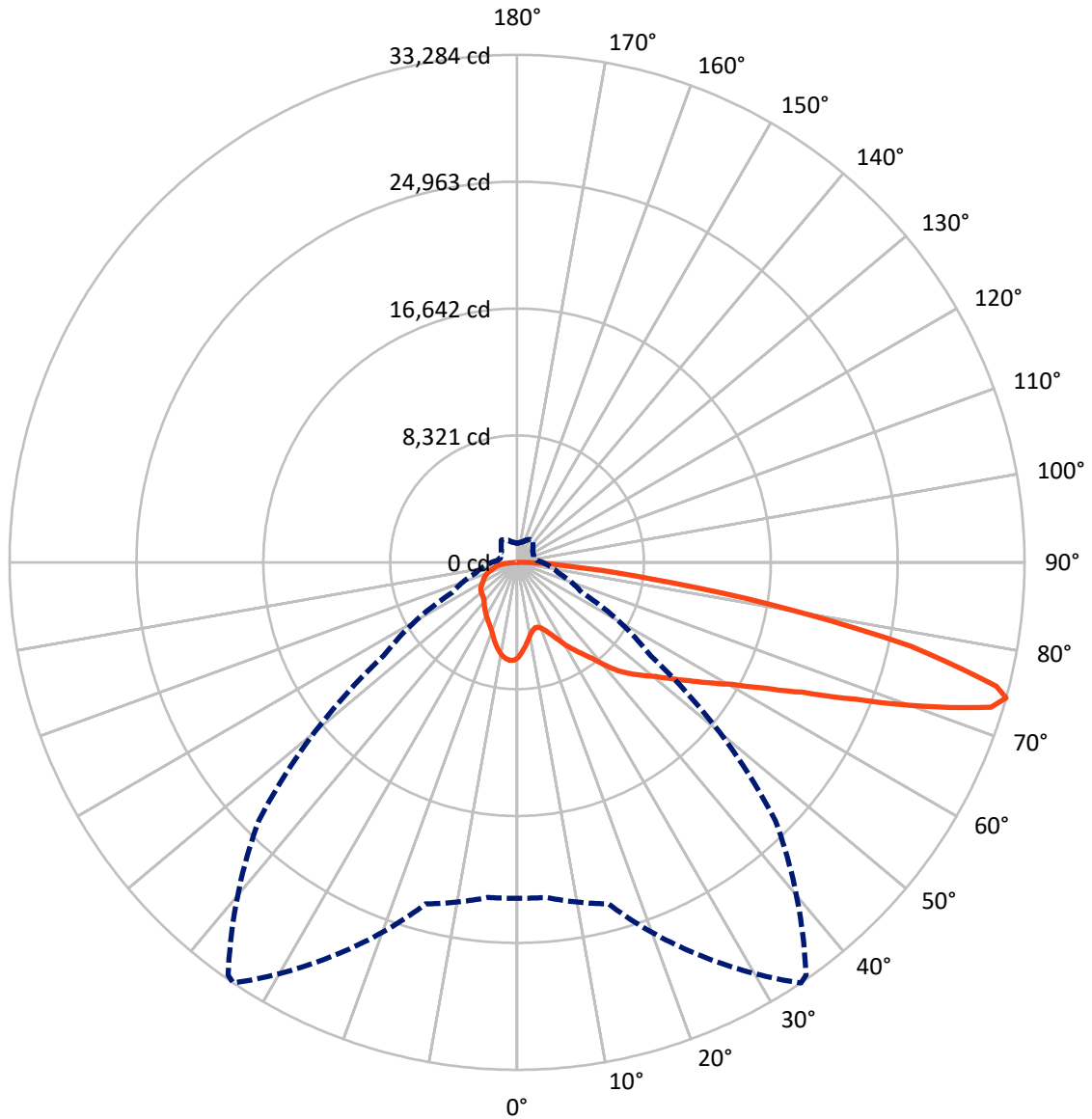
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 34-Deg Lateral      - - - Horizontal Cone Through 74-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	8744.5	0.0	8744.5
	% Fixture	21.3	0.0	21.3
<b>Street Side</b>	Lumens	32346.8	0.0	32346.8
	% Fixture	78.7	0.0	78.7
<b>Total</b>	Lumens	41091.3	0.0	41091.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	570.6	1.4
10°-20°	1561.9	3.8
20°-30°	2575.2	6.3
30°-40°	3857.4	9.4
40°-50°	5607.6	13.6
50°-60°	7832.5	19.1
60°-70°	9805.8	23.9
70°-80°	8108.6	19.7
80°-90°	1171.6	2.9
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°	41091.3	100.0
0°-180°	41091.3	100.0

**Coefficient of Utilization**



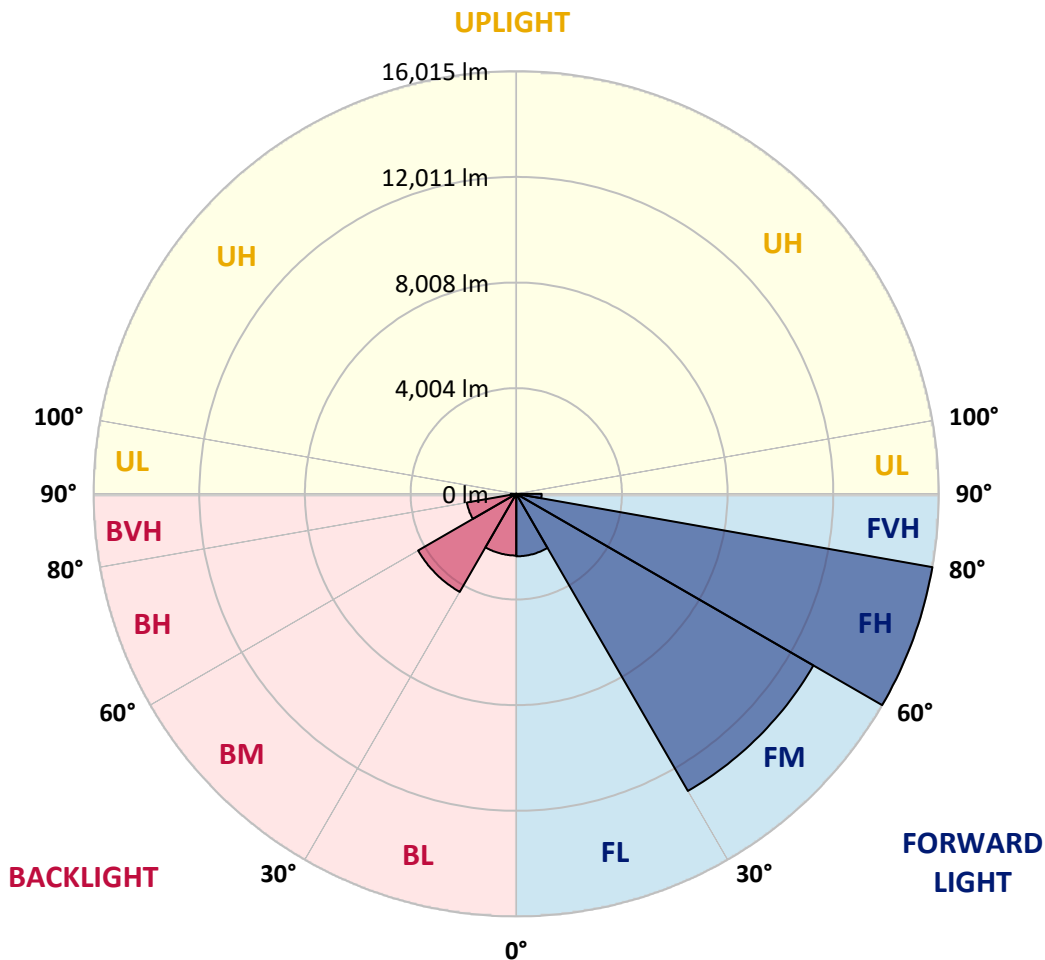
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2368.7	5.8			
FM (30°-60°)	13003.0	31.6			
FH (60°-80°)	16015.2	39.0			G5
FVH (80°-90°)	959.8	2.3			G5
BL (0°-30°)	2339.0	5.7	B3/2500		
BM (30°-60°)	4294.4	10.5	B3/5000		
BH (60°-80°)	1899.3	4.6	B3/2500		G3/2500
BVH (80°-90°)	211.8	0.5			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 Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	6273.9	6273.9	6273.9	6273.9	6273.9	6273.9	6273.9	6273.9	6273.9	6273.9	6273.9
2.5°	5798.0	5827.6	5843.6	5900.5	5914.2	5932.3	5980.2	6043.9	6125.8	6198.7	6262.4
5°	5315.5	5361.0	5388.3	5438.4	5536.3	5545.4	5672.9	5818.5	5984.7	6139.6	6267.0
7.5°	4857.9	4908.0	4930.7	5021.8	5151.5	5172.1	5358.7	5588.6	5866.3	6100.8	6296.6
10°	4514.2	4539.2	4589.3	4657.5	4812.4	4826.0	5069.6	5376.9	5736.5	6082.6	6346.7
12.5°	4327.4	4341.2	4352.5	4425.3	4577.9	4598.3	4853.3	5201.7	5634.1	6096.2	6428.6
15°	4354.8	4359.3	4309.3	4322.9	4445.9	4475.5	4728.1	5085.5	5570.4	6130.4	6551.6
17.5°	4584.7	4568.8	4445.9	4382.1	4468.7	4482.3	4703.1	5040.0	5540.8	6194.1	6679.1
20°	4946.7	4923.9	4712.2	4571.1	4621.1	4632.5	4785.0	5074.2	5570.4	6298.8	6877.1
22.5°	5397.4	5388.3	5067.3	4896.6	4894.3	4894.3	4974.0	5197.0	5659.2	6442.3	7084.2
25°	6028.0	5980.2	5561.3	5340.5	5279.0	5274.5	5265.3	5399.6	5773.0	6594.8	7330.1
27.5°	6674.5	6592.5	6219.2	5880.0	5748.0	5732.0	5672.9	5686.5	5918.7	6767.8	7610.1
30°	7255.0	7202.6	6852.0	6476.5	6319.4	6282.9	6119.0	6043.9	6162.3	7079.7	8056.3
32.5°	7698.9	7667.0	7393.8	7052.4	6820.2	6813.4	6574.3	6512.9	6542.5	7457.6	8566.2
35°	8058.5	8069.9	7931.1	7635.1	7368.8	7330.1	7170.7	7093.3	7006.8	8003.9	9208.1
37.5°	8550.3	8575.3	8566.2	8311.2	7985.7	7994.8	7958.4	7830.9	7601.0	8614.0	9920.7
40°	9092.1	9110.2	9107.9	9010.1	8839.3	8848.5	8834.8	8689.1	8345.3	9390.3	10712.8
42.5°	9841.0	9754.5	9529.1	9627.0	9727.2	9770.4	9863.8	9724.9	9253.7	10218.8	11457.3
45°	10678.7	10514.8	10004.9	10050.4	10421.5	10503.4	11017.9	10826.7	10239.3	11170.4	12333.7
47.5°	11206.8	11045.2	10614.9	10605.9	11097.6	11177.2	12087.8	12017.2	11136.3	12197.1	13403.6
50°	11678.0	11655.3	11170.4	11286.5	11766.9	11885.2	13253.3	13187.3	12030.9	13408.1	14569.1
52.5°	12376.9	12192.5	11805.5	12044.5	12679.7	12834.5	14409.8	14216.3	12852.7	14478.1	15700.5
55°	12691.0	12647.8	12625.0	12832.2	13704.1	13815.6	15534.3	15090.4	13553.8	15384.1	16561.0
57.5°	13531.1	13451.4	13676.8	13817.9	14910.6	15081.3	16709.0	16003.2	14168.5	16103.4	16979.9
60°	14619.2	14576.0	14783.1	15038.1	16258.2	16517.7	18047.5	16781.8	14662.4	16465.4	16749.9
62.5°	16244.6	16240.0	16201.3	16747.7	18168.1	18407.1	19584.0	17539.8	14739.9	16194.5	15561.6
65°	18575.6	18493.7	18156.8	18753.2	20544.7	20824.8	21184.4	17963.3	14273.2	14803.6	13103.1
67.5°	21013.6	21009.1	20735.9	21509.9	23957.1	24246.2	23185.4	17869.9	12977.9	11992.2	9306.0
70°	23035.2	22937.3	23285.5	25348.0	28316.5	28651.1	24935.9	16770.4	10337.2	7919.7	5529.4
72.5°	23520.0	23524.5	24248.5	28307.3	32502.8	32555.1	25566.5	13592.5	6918.1	4368.5	2765.9
74°	22026.6	22065.4	23187.6	28455.3	33283.6	33046.8	23954.8	10683.2	4678.1	2852.3	1994.2
75°	20105.4	19861.8	21484.9	27469.6	32473.2	32218.2	22067.7	8573.0	3569.5	2278.7	1746.0
77.5°	10749.2	10997.4	13501.5	20499.2	26381.5	26087.8	14962.9	4111.2	1928.2	1586.6	1256.6
80°	3826.6	4220.5	5932.3	10726.5	16913.9	17004.9	7141.1	1884.8	1356.8	1170.1	887.8
82.5°	1561.7	1604.9	2547.3	4760.0	8589.0	8670.9	2916.1	1120.0	969.8	805.8	530.4
85°	610.1	628.3	1126.9	2139.8	3665.1	3904.1	1008.4	591.9	596.4	462.1	270.9
87.5°	204.9	232.2	462.1	712.5	1245.2	1220.1	293.7	175.3	214.0	200.3	84.3
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°	6273.9	6273.9	6273.9	6273.9	6273.9	6273.9	6273.9	6273.9	6273.9	6273.9	6273.9
2.5°	6294.3	6337.5	6367.1	6399.0	6428.6	6437.7	6430.9	6451.4	6453.7	6455.9	6458.2
5°	6330.7	6389.9	6446.9	6478.7	6492.4	6481.0	6442.3	6421.8	6403.5	6389.9	6394.5
7.5°	6380.8	6465.0	6517.4	6531.0	6494.6	6442.3	6346.7	6271.5	6223.7	6191.9	6189.6
10°	6458.2	6540.2	6583.4	6544.7	6444.6	6317.1	6166.8	6025.7	5918.7	5886.8	5884.6
12.5°	6556.1	6649.5	6647.2	6533.3	6358.0	6130.4	5886.8	5722.9	5577.3	5504.4	5533.9
15°	6683.6	6754.2	6688.1	6483.3	6205.6	5893.6	5593.2	5370.1	5206.2	5128.8	5133.3
17.5°	6831.5	6893.0	6717.7	6394.5	5991.5	5590.9	5242.6	5030.9	4901.2	4844.2	4839.7
20°	7016.0	7034.1	6717.7	6239.7	5716.1	5238.1	4905.7	4757.7	4684.9	4655.3	4664.4
22.5°	7214.0	7177.6	6681.3	6021.1	5354.1	4869.3	4646.2	4580.2	4543.8	4539.2	4543.8
25°	7437.0	7334.6	6606.1	5725.2	4976.3	4550.6	4420.8	4432.2	4439.1	4439.1	4454.9
27.5°	7710.2	7505.3	6481.0	5351.9	4534.7	4254.6	4218.2	4297.8	4334.3	4341.2	4352.5
30°	8069.9	7692.0	6273.9	4885.2	4159.0	3988.3	4052.0	4159.0	4200.0	4225.0	4220.5
32.5°	8497.9	7896.9	5993.8	4418.5	3856.2	3801.7	3879.0	3988.3	4033.9	4047.5	4029.2
35°	9001.0	8129.1	5625.0	3981.5	3592.2	3624.0	3715.1	3749.3	3790.2	3790.2	3799.4
37.5°	9542.7	8315.8	5174.3	3580.8	3387.3	3503.4	3569.5	3537.6	3519.3	3496.6	3508.0
40°	10093.7	8454.7	4589.3	3184.7	3182.4	3378.2	3396.5	3305.4	3232.6	3209.8	3198.4
42.5°	10574.0	8541.1	4061.1	2877.4	2988.9	3255.3	3269.0	3123.2	3007.2	2938.9	2916.1
45°	11140.8	8641.3	3544.4	2622.4	2809.1	3157.4	3191.5	2995.8	2825.0	2681.6	2645.2
47.5°	11917.1	8868.9	3136.9	2424.4	2679.3	3096.0	3143.7	2891.0	2665.7	2479.0	2449.4
50°	12793.5	9180.8	2820.5	2290.0	2579.2	3041.3	3100.5	2784.0	2517.7	2310.6	2287.8
52.5°	13597.0	9349.2	2547.3	2169.4	2481.3	2941.1	3043.6	2706.7	2372.0	2142.1	2121.6
55°	14036.5	9076.1	2278.7	2051.0	2347.0	2811.4	2963.9	2599.7	2230.9	2053.3	2023.7
57.5°	14095.6	8511.5	2035.1	1923.6	2205.9	2652.0	2815.9	2469.9	2139.8	1991.9	1966.8
60°	13638.1	7669.2	1846.2	1818.8	2062.5	2472.2	2649.7	2356.1	2046.5	1923.6	1898.6
62.5°	12499.9	6754.2	1714.1	1723.3	1916.7	2283.2	2526.9	2246.8	1957.8	1848.4	1825.7
65°	10542.1	5575.0	1586.6	1625.4	1787.0	2135.3	2415.3	2155.7	1869.0	1791.6	1771.1
67.5°	7323.3	4024.7	1481.9	1523.0	1664.1	1985.0	2285.5	2057.9	1768.8	1727.8	1696.0
70°	4054.3	2476.7	1359.1	1406.8	1536.6	1816.6	2139.8	1909.9	1623.1	1604.9	1559.4
72.5°	2130.8	1577.5	1220.1	1272.5	1363.6	1600.3	1916.7	1748.3	1479.7	1402.3	1343.1
74°	1664.1	1293.0	1126.9	1181.4	1242.9	1472.8	1784.7	1632.2	1377.2	1286.1	1240.6
75°	1450.1	1151.8	1047.1	1117.7	1172.4	1386.3	1682.3	1550.2	1320.3	1233.8	1192.9
77.5°	1024.4	862.8	856.0	940.2	969.8	1215.6	1516.1	1411.4	1176.9	1085.8	1047.1
80°	719.4	646.5	678.4	730.7	771.7	1074.5	1406.8	1220.1	965.2	858.2	844.5
82.5°	468.9	423.4	484.8	532.7	546.3	792.2	1135.9	926.5	703.4	571.4	530.4
85°	216.2	211.7	277.7	270.9	268.6	387.0	673.8	541.8	405.2	302.8	284.6
87.5°	54.7	52.4	68.3	56.9	68.3	59.2	61.5	15.9	2.3	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)