

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: P522923

Luminaire Tested: **GALN-SA9C-740-U-T4W**

Issue Date: 5/13/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P522923  
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-SA9C-740-U-T4W  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 70 CRI, 4000K, 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: 63781 lumens  
Efficiency: N/A  
Efficacy: 132.6 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

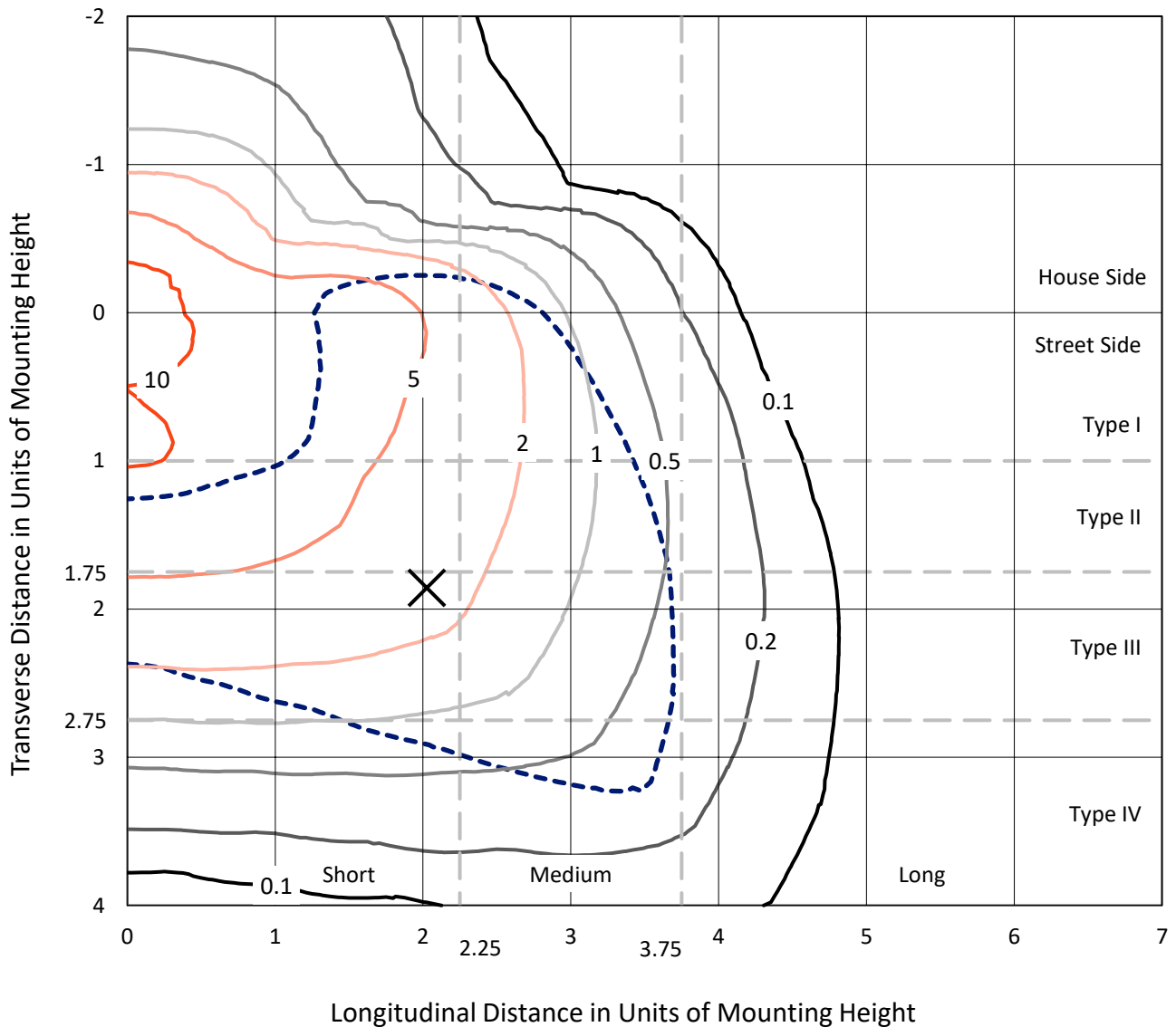
Input Watts (W): 481  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

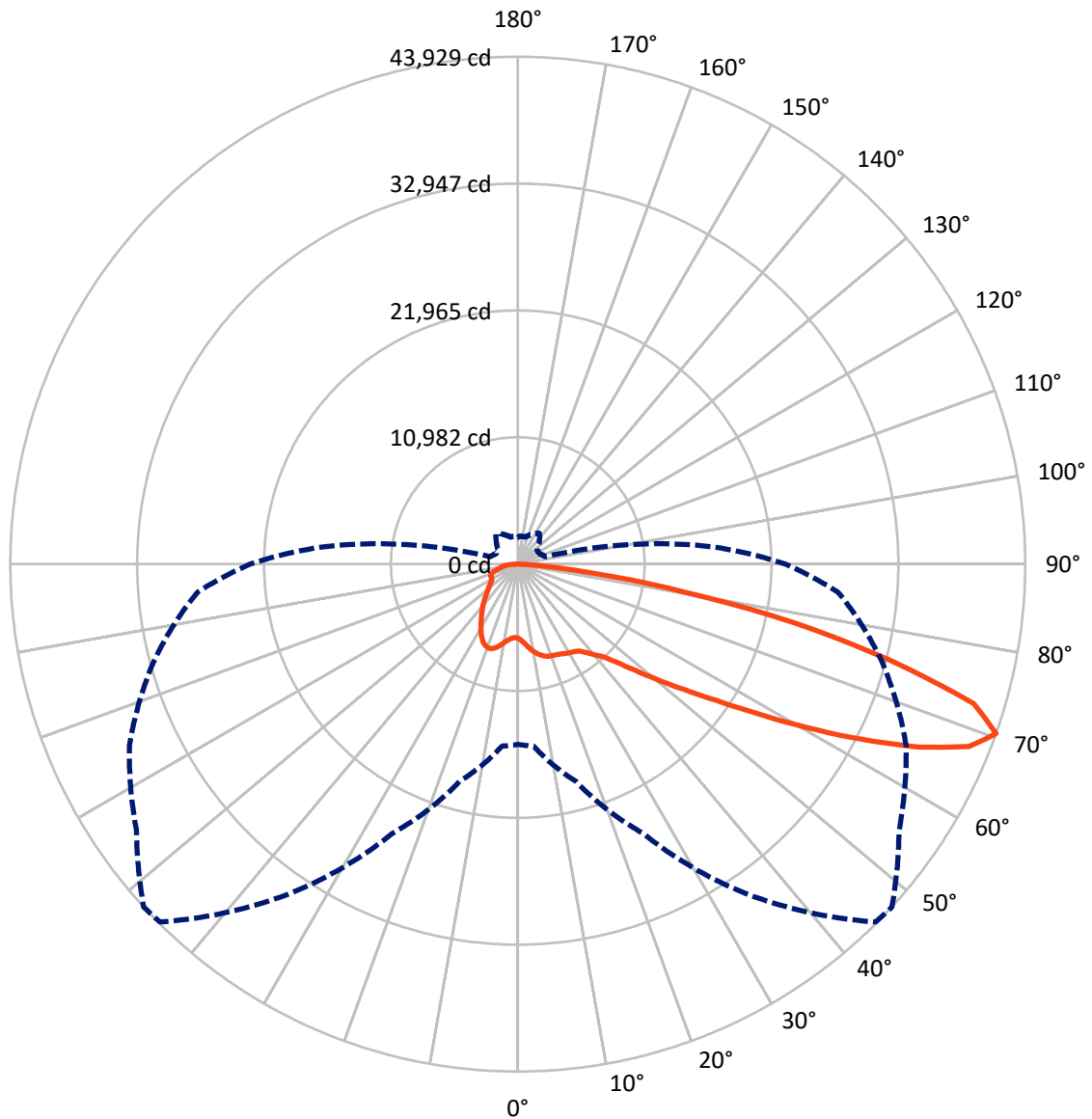
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13 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	14441.3	0.0	14441.3
	% Fixture	22.6	0.0	22.6
<b>Street Side</b>	Lumens	49339.7	0.0	49339.7
	% Fixture	77.4	0.0	77.4
<b>Total</b>	Lumens	63781.0	0.0	63781.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	660.0	1.0
10°-20°	2206.4	3.5
20°-30°	3669.3	5.8
30°-40°	5200.6	8.2
40°-50°	7677.3	12.0
50°-60°	13297.3	20.8
60°-70°	18782.9	29.4
70°-80°	10797.4	16.9
80°-90°	1489.8	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°	63781.0	100.0
0°-180°	63781.0	100.0

**Coefficient of Utilization**



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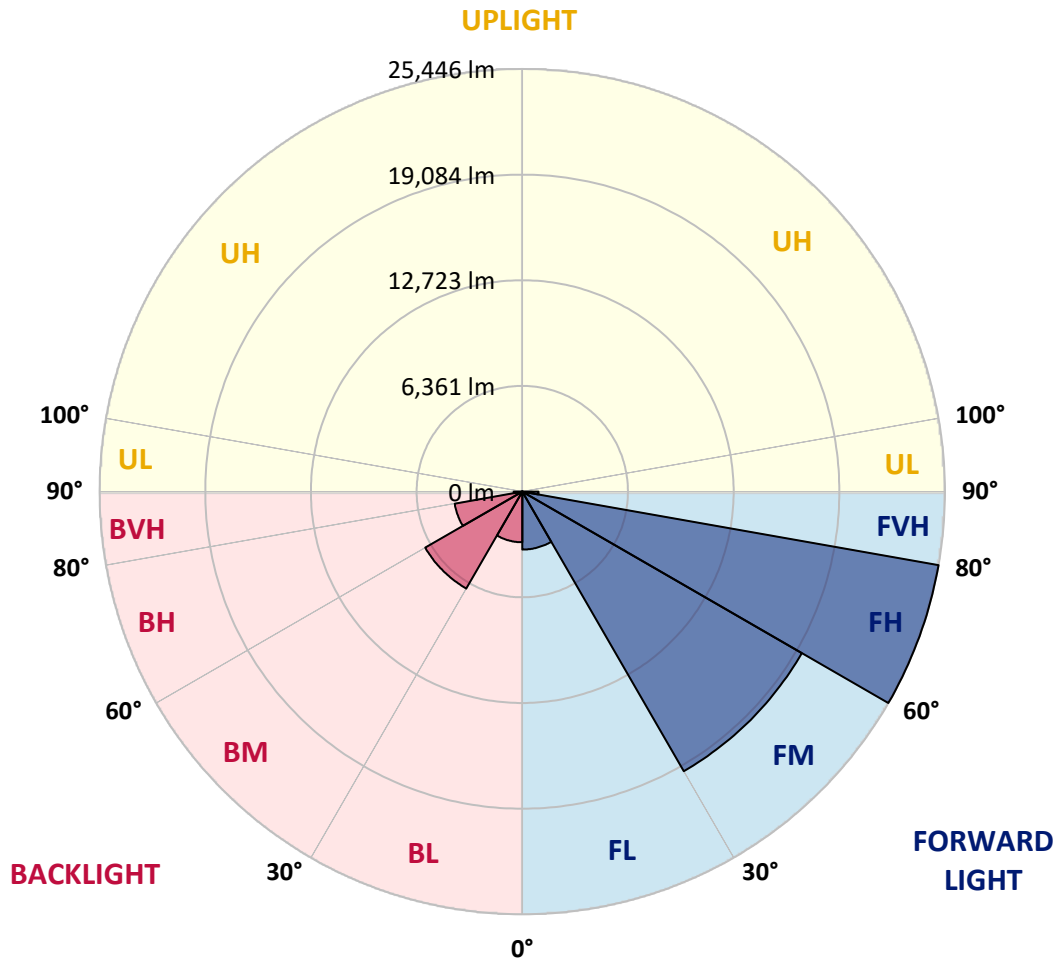
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3487.8	5.5			
FM	(30°-60°)	19432.8	30.5			
FH	(60°-80°)	25446.0	39.9			G5
FVH	(80°-90°)	973.2	1.5			G5
BL	(0°-30°)	3047.9	4.8	B4/5000		
BM	(30°-60°)	6742.4	10.6	B4/8500		
BH	(60°-80°)	4134.3	6.5	B4/5000		G4/5000
BVH	(80°-90°)	516.6	0.8			G4/750
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°	6402.8	6402.8	6402.8	6402.8	6402.8	6402.8	6402.8	6402.8	6402.8	6402.8	6402.8
2.5°	6815.8	6791.9	6788.5	6737.3	6710.0	6658.8	6638.3	6590.6	6532.5	6474.5	6419.9
5°	7351.7	7351.7	7327.8	7256.1	7143.5	7027.4	6976.2	6884.1	6720.3	6587.1	6474.5
7.5°	7901.2	7908.0	7860.2	7754.4	7594.0	7406.3	7358.5	7222.0	6989.9	6795.3	6628.1
10°	8375.6	8375.6	8310.7	8167.4	7966.0	7761.2	7713.4	7559.9	7300.5	7058.1	6839.7
12.5°	8737.4	8737.4	8652.0	8464.3	8245.9	8061.6	8007.0	7860.2	7617.9	7348.3	7071.8
15°	8972.9	8955.8	8860.2	8648.6	8437.0	8276.6	8239.1	8116.2	7894.3	7621.3	7310.7
17.5°	8983.1	8976.3	8884.1	8706.6	8522.3	8413.1	8389.2	8307.3	8133.3	7873.9	7546.2
20°	8785.1	8798.8	8737.4	8611.1	8522.3	8474.6	8464.3	8437.0	8314.1	8071.8	7744.2
22.5°	8573.5	8597.4	8539.4	8471.1	8464.3	8512.1	8518.9	8525.7	8447.3	8211.8	7911.4
25°	8522.3	8539.4	8481.4	8419.9	8457.5	8583.8	8611.1	8638.4	8576.9	8379.0	8109.4
27.5°	8781.7	8768.1	8655.4	8522.3	8546.2	8716.9	8754.4	8785.1	8754.4	8583.8	8355.1
30°	9515.5	9471.2	9245.9	8856.8	8733.9	8853.4	8890.9	8976.3	8976.3	8850.0	8621.3
32.5°	10744.2	10658.9	10245.9	9481.4	9054.8	8983.1	9020.6	9160.6	9232.2	9133.3	8884.1
35°	12235.7	12147.0	11556.5	10529.2	9641.8	9242.5	9232.2	9389.2	9580.4	9358.5	9034.3
37.5°	13734.0	13641.9	12932.0	11778.4	10498.5	9788.6	9727.1	9781.7	9863.7	9457.5	9242.5
40°	15232.4	15123.1	14502.0	13174.3	11546.3	10512.1	10351.7	10106.0	10071.9	9781.7	9645.2
42.5°	16717.0	16618.0	16304.0	14740.9	12802.3	11218.6	10972.9	10549.7	10679.4	10505.3	10385.9
45°	18215.3	18222.2	17887.7	16498.6	14317.7	12522.4	12191.3	11529.2	11836.4	11771.5	11839.8
47.5°	19543.0	19525.9	19406.5	18205.1	16198.2	14201.6	13775.0	13007.1	13532.7	13771.6	14293.8
50°	20829.7	20819.5	20826.3	20140.3	18382.6	16198.2	15727.2	14921.8	16106.1	16935.5	17870.6
52.5°	22672.8	22730.8	22317.8	22136.9	21037.9	18556.6	18037.9	17205.1	19147.1	20454.3	22280.3
55°	24522.6	24474.8	24150.6	24338.3	23816.1	21348.5	20805.8	20143.7	22532.8	23962.9	26707.0
57.5°	25611.4	25628.4	25959.5	26877.6	27246.2	24829.8	24338.3	23826.4	26338.4	27352.0	30645.6
60°	26590.9	26669.4	27621.7	29355.5	30355.5	29106.3	28669.5	28171.2	29829.9	30232.6	34065.5
62.5°	26898.1	27140.4	28802.6	31396.5	33386.3	33932.3	33389.7	32290.7	33154.2	32997.2	36382.9
65°	25365.6	25696.7	28676.3	32161.0	36092.8	38512.6	38167.9	36126.9	35987.0	35041.6	36761.7
67.5°	21331.4	21662.5	25488.5	30556.9	37212.3	42478.6	42133.9	38925.6	37707.2	35232.7	33894.8
70°	15607.8	15816.0	19474.8	25727.4	34963.1	43809.7	43929.1	40290.8	37092.8	32635.4	27829.8
72.5°	8993.3	9454.1	12017.3	18099.3	28563.7	40444.4	41273.8	37451.2	33208.8	27225.7	19457.7
75°	3867.0	3877.2	5556.4	9983.1	19345.1	32509.1	33311.2	31044.9	26079.0	18826.3	10389.3
77.5°	1839.6	1873.8	2443.7	4457.4	10648.7	22461.2	24625.0	21932.1	16679.5	9044.5	3925.0
80°	1194.6	1218.5	1494.9	2211.6	5221.9	13024.1	14532.7	12652.1	7358.5	3232.1	1692.9
82.5°	723.6	730.4	1000.0	1351.6	2873.8	5897.7	6952.3	5491.6	3140.0	1935.2	996.6
85°	440.3	443.7	607.5	836.2	1744.1	2037.6	2092.2	2075.1	1843.0	1266.2	532.4
87.5°	211.6	218.4	314.0	395.9	686.0	631.4	597.3	692.8	870.3	682.6	228.7
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°	6402.8	6402.8	6402.8	6402.8	6402.8	6402.8	6402.8	6402.8	6402.8	6402.8	6402.8
2.5°	6396.0	6385.8	6361.9	6351.6	6344.8	6348.2	6344.8	6344.8	6348.2	6348.2	6348.2
5°	6426.7	6409.7	6372.1	6372.1	6392.6	6440.4	6484.8	6518.9	6556.4	6553.0	6553.0
7.5°	6559.8	6529.1	6484.8	6498.4	6549.6	6624.7	6703.2	6778.3	6853.4	6860.2	6856.8
10°	6754.4	6723.7	6675.9	6693.0	6774.9	6887.5	6986.5	7095.7	7177.6	7201.5	7194.7
12.5°	6976.2	6914.8	6873.8	6921.6	7051.3	7201.5	7297.1	7379.0	7437.0	7471.1	7457.5
15°	7201.5	7143.5	7095.7	7194.7	7351.7	7491.6	7539.4	7553.0	7563.3	7597.4	7590.6
17.5°	7419.9	7341.4	7324.4	7454.1	7604.2	7665.7	7638.4	7580.3	7536.0	7563.3	7559.9
20°	7614.5	7553.0	7546.2	7675.9	7733.9	7675.9	7559.9	7457.5	7379.0	7385.8	7382.4
22.5°	7798.8	7751.0	7757.8	7812.4	7720.3	7522.3	7331.2	7191.3	7105.9	7123.0	7133.2
25°	8003.6	7955.8	7972.8	7884.1	7580.3	7235.6	6959.2	6839.7	6805.6	6839.7	6863.6
27.5°	8269.8	8239.1	8228.8	7887.5	7331.2	6812.4	6498.4	6454.0	6484.8	6559.8	6597.4
30°	8556.5	8556.5	8501.9	7829.5	6989.9	6303.9	6030.8	6037.7	6143.5	6249.3	6286.8
32.5°	8832.9	8890.9	8720.3	7672.5	6549.6	5809.0	5600.8	5607.6	5699.8	5829.5	5863.6
35°	9061.6	9228.8	8908.0	7385.8	6030.8	5392.6	5235.6	5143.4	5146.8	5245.8	5273.1
37.5°	9375.6	9686.2	9017.2	6959.2	5477.9	5037.6	4860.2	4699.7	4593.9	4553.0	4553.0
40°	9921.7	10379.0	9044.5	6327.8	4955.7	4699.7	4447.2	4256.0	4051.3	3867.0	3832.8
42.5°	10846.6	11423.4	8989.9	5600.8	4484.7	4327.7	4082.0	3846.5	3563.2	3303.8	3283.3
45°	12484.9	12781.8	8843.2	4846.5	4064.9	3969.4	3730.4	3474.5	3174.1	2942.0	2925.0
47.5°	15109.5	14689.7	8648.6	4177.5	3682.7	3655.4	3471.1	3174.1	2873.8	2713.4	2696.3
50°	18942.3	17693.1	8621.3	3692.9	3375.5	3389.1	3239.0	2965.9	2703.1	2570.0	2549.5
52.5°	23556.7	21321.2	8802.2	3351.6	3105.9	3157.1	3082.0	2829.4	2597.3	2484.7	2464.2
55°	28034.6	24584.1	8911.4	3085.4	2853.3	2948.9	2959.1	2747.5	2535.9	2423.3	2409.6
57.5°	31669.5	27041.4	8426.8	2843.1	2634.9	2781.6	2856.7	2699.7	2505.2	2419.8	2406.2
60°	34198.6	28201.9	7047.9	2628.0	2474.4	2648.5	2819.2	2703.1	2580.3	2590.5	2597.3
62.5°	35004.0	27686.5	5286.8	2467.6	2365.2	2604.1	2880.6	2843.1	2716.8	2795.3	2808.9
65°	33669.5	25556.8	3832.8	2341.3	2269.7	2634.9	3064.9	2945.4	2669.0	2727.0	2727.0
67.5°	29201.9	22017.5	2983.0	2225.3	2160.4	2692.9	3249.2	2935.2	2556.4	2624.6	2563.2
70°	23164.2	17031.0	2484.7	2095.6	2044.4	2607.6	3266.3	2829.4	2423.3	2436.9	2320.9
72.5°	15372.3	11198.2	2136.6	1972.7	1866.9	2344.8	3126.3	2692.9	2293.6	2215.1	2099.0
75°	7532.6	5583.7	1863.5	1819.1	1634.8	2041.0	2935.2	2563.2	2153.6	2030.8	1965.9
77.5°	2918.1	2375.5	1590.5	1624.6	1423.2	1798.7	2682.6	2378.9	1969.3	1802.1	1750.9
80°	1416.4	1348.1	1303.8	1355.0	1170.7	1532.5	2450.6	2218.5	1798.7	1614.4	1539.3
82.5°	880.6	832.8	1000.0	1054.6	901.0	1399.3	2324.3	2081.9	1583.6	1337.9	1276.5
85°	447.1	477.8	669.0	720.1	645.1	1112.6	1914.7	1563.2	1143.4	948.8	955.6
87.5°	170.7	228.7	351.5	378.8	344.7	587.0	1054.6	911.3	733.8	498.3	460.8
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)