

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: P529416

Luminaire Tested: **GALN-SA4C-740-U-T3R-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P529416  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-12)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA4C-740-U-T3R-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 70 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
ROADWAY OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 24278 lumens  
Efficiency: N/A  
Efficacy: 114.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3

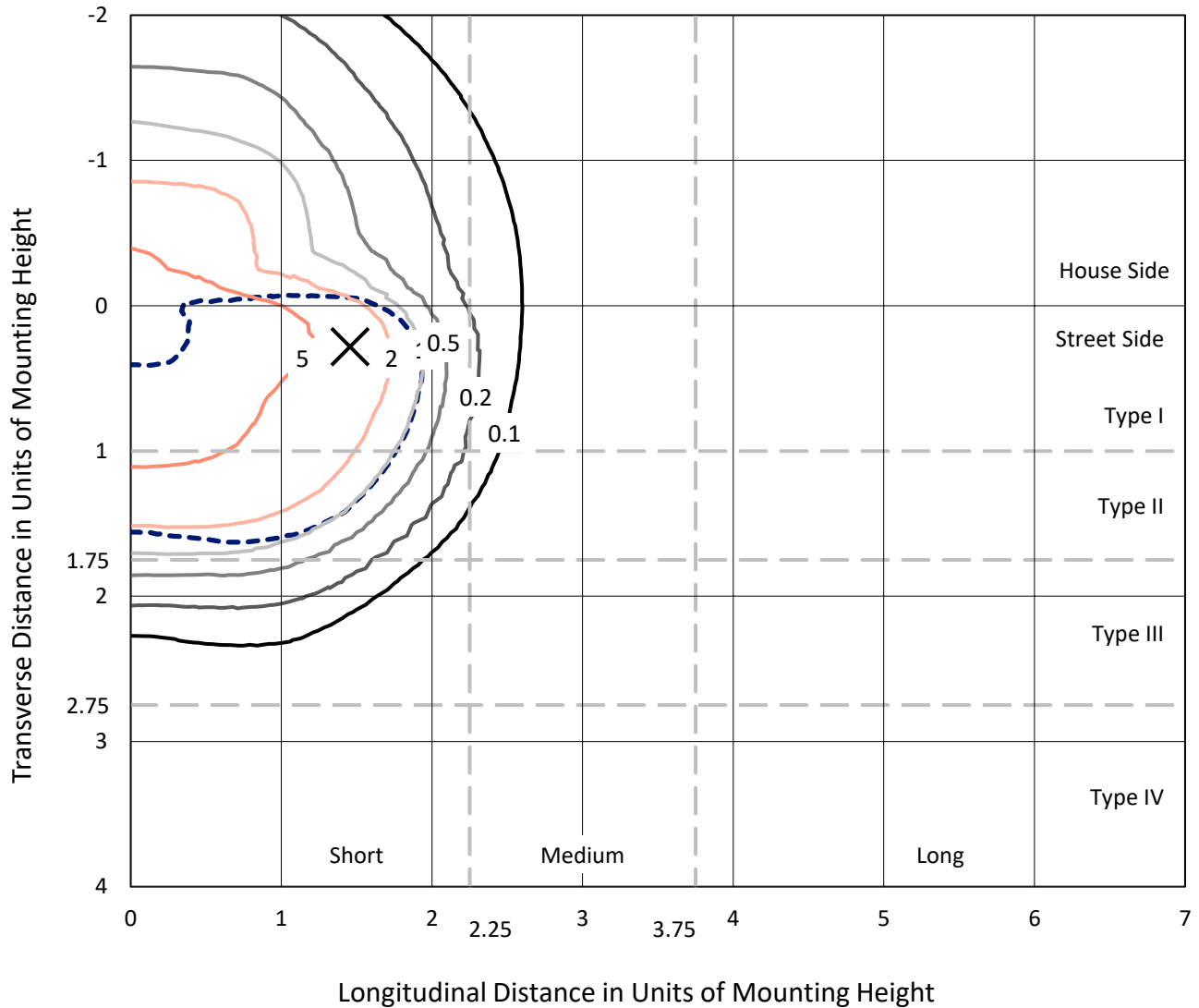
Input Watts (W): 213  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

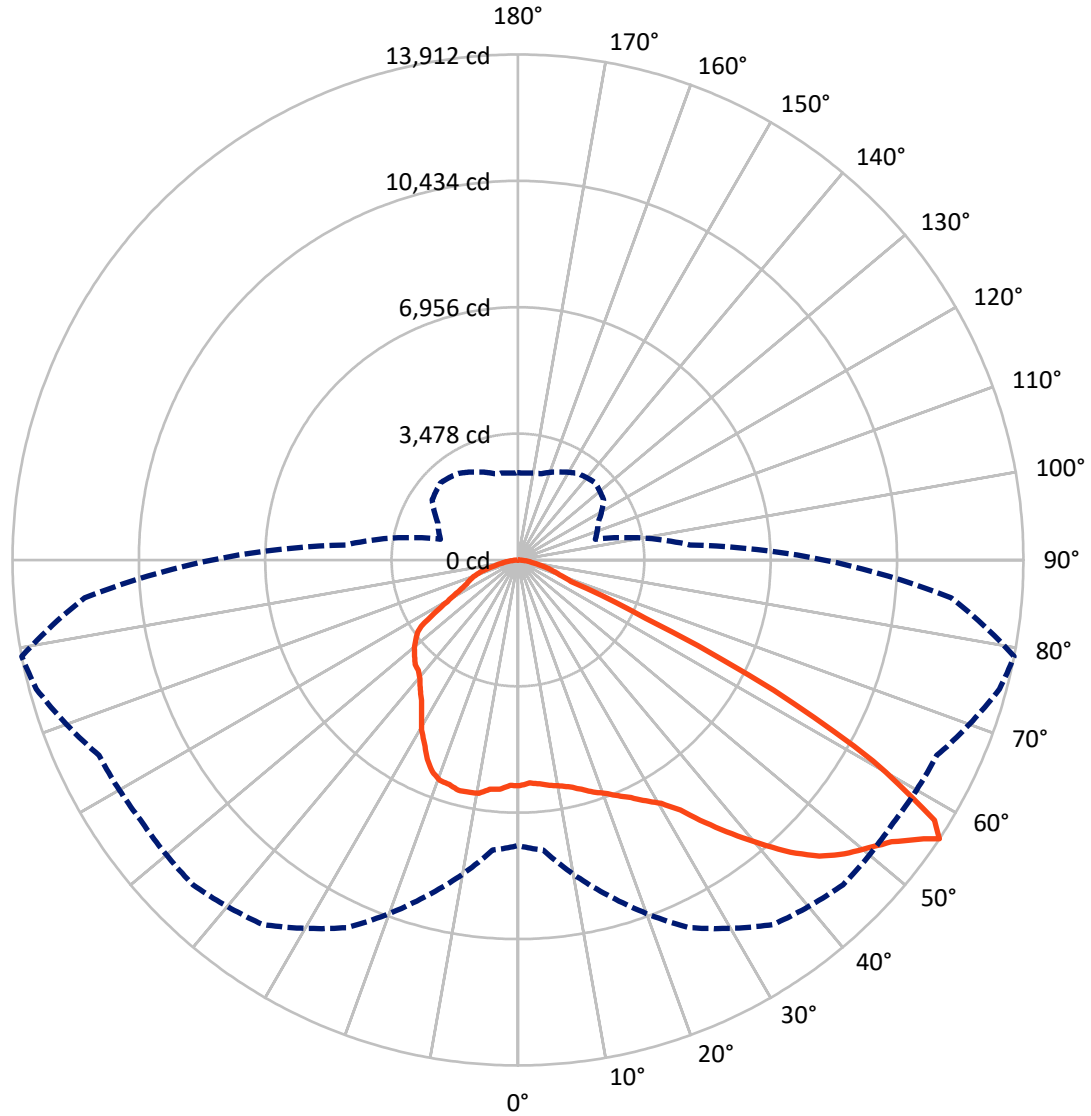
✕ Max cd  
 - - - 1/2 Max cd



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

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### Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral      - - - Horizontal Cone Through 56-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	7169.8	0.0	7169.8
	% Fixture	29.5	0.0	29.5
<b>Street Side</b>	Lumens	17108.2	0.0	17108.2
	% Fixture	70.5	0.0	70.5
<b>Total</b>	Lumens	24278.0	0.0	24278.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	564.8	2.3
10°-20°	1545.6	6.4
20°-30°	2644.3	10.9
30°-40°	4052.6	16.7
40°-50°	5477.1	22.6
50°-60°	6290.7	25.9
60°-70°	2867.5	11.8
70°-80°	707.0	2.9
80°-90°	128.5	0.5
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°	24278.0	100.0
0°-180°	24278.0	100.0

**Coefficient of Utilization**



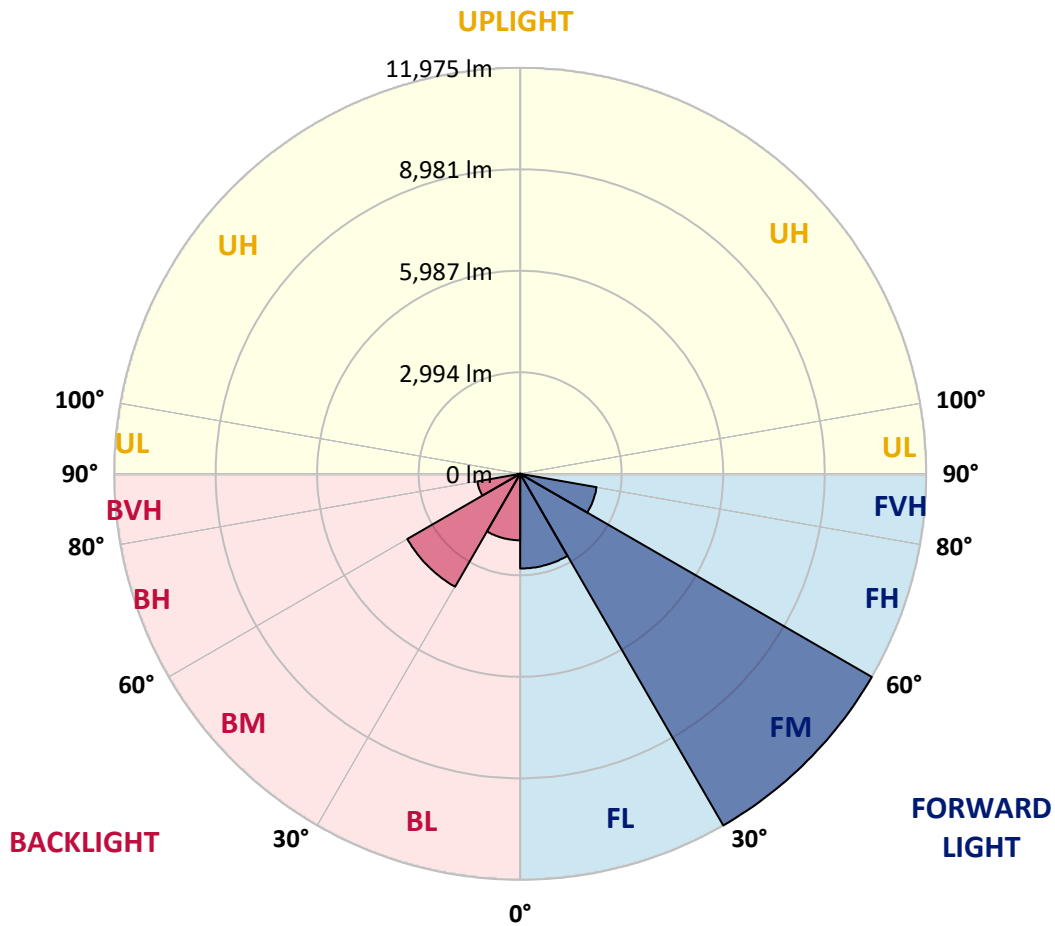
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2793.4	11.5			
FM (30°-60°)	11974.6	49.3			
FH (60°-80°)	2288.9	9.4			G2/5000
FVH (80°-90°)	51.3	0.2			G1/100
BL (0°-30°)	1961.3	8.1	B3/2500		
BM (30°-60°)	3845.8	15.8	B3/5000		
BH (60°-80°)	1285.6	5.3	B3/2500		G3/2500
BVH (80°-90°)	77.2	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G3**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	6211.8	6211.8	6211.8	6211.8	6211.8	6211.8	6211.8	6211.8	6211.8	6211.8	6211.8
2.5°	5909.4	5894.2	5930.5	5957.7	5991.0	6033.3	6054.5	6066.6	6172.5	6145.2	6226.9
5°	5782.3	5743.0	5770.2	5791.4	5848.9	5900.3	5957.7	6048.5	6145.2	6187.6	6287.4
7.5°	5670.4	5649.3	5643.2	5658.3	5737.0	5803.5	5903.3	6036.4	6193.6	6263.2	6320.7
10°	5486.0	5455.7	5501.1	5600.9	5622.1	5761.2	5876.1	6066.6	6202.7	6323.7	6493.0
12.5°	5404.3	5374.1	5383.1	5440.6	5588.8	5721.9	5857.9	6072.7	6360.0	6408.4	6635.2
15°	5534.4	5504.1	5513.2	5498.1	5640.2	5709.8	5924.5	6193.6	6468.8	6550.5	6792.4
17.5°	5830.7	5833.7	5794.4	5761.2	5727.9	5876.1	6024.3	6266.2	6511.2	6716.8	6898.3
20°	6396.3	6296.5	6217.8	6030.3	5978.9	6042.4	6229.9	6462.8	6683.6	6852.9	7058.6
22.5°	6831.7	6840.8	6728.9	6420.5	6308.6	6335.8	6496.1	6686.6	6928.5	7049.5	7285.4
25°	7463.8	7400.3	7279.3	7034.4	6783.4	6804.5	6922.5	7094.9	7161.4	7246.1	7503.1
27.5°	8041.4	8059.6	7820.7	7590.8	7279.3	7218.8	7430.5	7460.8	7348.9	7509.2	7596.9
30°	8628.1	8613.0	8455.8	8186.6	7881.2	7893.3	7987.0	7838.8	7684.6	7772.3	7832.8
32.5°	9236.0	9063.6	9057.6	8815.6	8582.8	8470.9	8356.0	8428.5	8189.6	8207.8	8150.3
35°	9722.9	9747.1	9608.0	9435.6	9320.7	9124.1	8809.6	8939.6	8894.3	8873.1	8625.1
37.5°	10076.8	9983.0	10052.6	9995.1	9886.2	9641.3	9314.6	9438.6	9459.8	9562.6	9275.3
40°	10367.1	10327.8	10512.2	10542.5	10466.9	9937.6	9350.9	9719.9	10037.4	10261.2	9919.5
42.5°	10506.2	10590.9	10784.4	11017.3	10847.9	10282.4	9538.4	9934.6	10642.3	10996.1	10530.4
45°	10693.7	10584.8	10872.1	11298.5	11301.6	10572.7	9719.9	10224.9	11114.1	11628.2	10947.7
47.5°	10503.2	10557.6	10854.0	11395.3	11534.4	10878.2	10209.8	10636.2	11634.2	12090.9	11334.8
50°	10076.8	10185.6	10727.0	11289.5	11709.8	11201.8	10772.3	11080.8	12115.1	12462.9	11398.3
52.5°	9632.2	9692.7	10539.5	11371.1	11788.5	11619.1	11525.4	11694.7	12701.8	12883.2	11477.0
55°	8422.5	8709.8	9919.5	11334.8	12172.5	12372.1	12299.6	12547.6	13367.1	13548.6	11906.4
56°	7863.0	8014.2	9547.5	11165.5	12248.2	12647.4	12611.1	12723.0	13721.0	13911.5	11972.9
57.5°	6828.7	6840.8	8141.2	10415.5	11963.9	12729.0	12692.7	12780.4	13651.4	13521.4	11389.3
60°	4273.2	4460.7	5540.4	8011.2	10173.5	11809.6	12015.3	11310.6	11510.2	11235.0	8861.0
62.5°	2213.7	2186.5	2903.3	4684.5	6753.1	8455.8	8646.3	8613.0	8304.5	7902.3	5788.4
65°	1103.8	1109.9	1518.2	2319.6	3459.7	4427.5	4959.7	5017.2	4197.6	3861.9	2746.0
67.5°	801.4	831.7	1091.7	1418.4	1630.1	1823.6	2234.9	2192.6	1660.3	1578.7	1463.7
70°	623.0	650.2	886.1	1082.7	982.9	982.9	1070.6	1106.9	1182.5	1215.7	1255.1
72.5°	453.6	474.8	677.4	747.0	644.2	692.5	801.4	886.1	964.7	976.8	1022.2
75°	311.5	329.6	444.6	411.3	387.1	477.8	586.7	665.3	722.8	753.0	780.3
77.5°	202.6	208.7	254.0	214.7	248.0	308.5	381.1	447.6	505.0	529.2	535.3
80°	90.7	99.8	108.9	136.1	172.4	220.8	272.2	326.6	362.9	372.0	390.1
82.5°	51.4	51.4	66.5	96.8	127.0	160.3	196.6	235.9	278.2	287.3	284.3
85°	27.2	27.2	39.3	57.5	78.6	93.8	90.7	93.8	99.8	114.9	111.9
87.5°	9.1	9.1	12.1	12.1	15.1	18.1	15.1	21.2	27.2	27.2	27.2
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°	6211.8	6211.8	6211.8	6211.8	6211.8	6211.8	6211.8	6211.8	6211.8	6211.8	6211.8
2.5°	6202.7	6229.9	6193.6	6272.3	6272.3	6257.1	6181.5	6205.7	6223.9	6223.9	6239.0
5°	6320.7	6311.6	6335.8	6242.0	6184.6	6163.4	6039.4	5978.9	5927.5	5924.5	5879.1
7.5°	6387.2	6363.0	6353.9	6284.4	6030.3	5876.1	5610.0	5455.7	5422.5	5304.5	5349.9
10°	6493.0	6538.4	6493.0	6115.0	5761.2	5407.3	5147.2	4908.3	4814.6	4739.0	4693.6
12.5°	6710.8	6689.6	6426.5	5915.4	5419.4	4999.1	4612.0	4360.9	4267.2	4200.7	4194.6
15°	6895.3	6789.4	6387.2	5600.9	4887.2	4439.6	4122.0	3943.6	3901.3	3907.3	3934.5
17.5°	6958.8	6886.2	6181.5	5274.3	4491.0	3964.8	3816.6	3789.4	3828.7	3874.0	3886.1
20°	7058.6	6943.6	6096.9	4829.7	4001.1	3668.4	3659.3	3756.1	3828.7	3895.2	3904.3
22.5°	7267.2	6976.9	5821.7	4409.3	3665.4	3580.7	3668.4	3750.1	3861.9	3916.4	3868.0
25°	7327.7	6904.3	5434.6	3904.3	3453.7	3526.3	3620.0	3731.9	3810.5	3840.8	3861.9
27.5°	7379.1	6792.4	4911.4	3568.6	3387.1	3523.2	3620.0	3713.8	3756.1	3783.3	3807.5
30°	7524.3	6759.2	4457.7	3344.8	3344.8	3462.7	3586.7	3610.9	3668.4	3701.7	3744.0
32.5°	7596.9	6529.3	3992.0	3202.7	3302.5	3493.0	3502.1	3547.4	3550.5	3577.7	3532.3
35°	7787.4	6366.0	3559.5	3099.8	3320.6	3462.7	3508.1	3480.9	3332.7	3260.1	3275.2
37.5°	7926.5	6284.4	3248.0	3087.7	3323.6	3496.0	3520.2	3314.6	3160.3	3039.4	3069.6
40°	8301.5	6081.7	3012.1	3066.6	3350.9	3532.3	3465.8	3242.0	2963.8	2839.8	2818.6
42.5°	8588.8	5936.6	2864.0	3042.4	3372.0	3583.7	3438.6	3096.8	2812.5	2697.6	2727.9
45°	8921.5	5903.3	2785.3	3048.4	3408.3	3610.9	3405.3	2984.9	2682.5	2637.1	2628.1
47.5°	9039.4	5664.4	2700.6	2997.0	3399.2	3601.9	3293.4	2900.2	2634.1	2640.2	2664.4
50°	8842.9	5419.4	2637.1	2891.2	3338.8	3520.2	3118.0	2788.3	2606.9	2682.5	2724.8
52.5°	8591.9	5168.4	2507.1	2749.0	3214.8	3393.2	3036.3	2782.3	2579.7	2555.5	2564.6
55°	8667.5	4962.8	2325.6	2555.5	3015.2	3157.3	2945.6	2724.8	2513.1	2422.4	2452.7
56°	8422.5	4751.1	2207.7	2434.5	2879.1	3006.1	2900.2	2673.4	2458.7	2398.2	2398.2
57.5°	7729.9	4040.4	2053.5	2241.0	2591.8	2743.0	2812.5	2643.2	2398.2	2292.4	2295.4
60°	5700.7	2873.0	1841.8	1974.8	2147.2	2268.2	2591.8	2558.5	2247.0	2174.4	2147.2
62.5°	3514.2	2098.8	1690.5	1742.0	1829.7	1929.5	2262.1	2316.6	2086.7	2008.1	1989.9
65°	1968.8	1605.9	1575.6	1596.8	1639.1	1690.5	1878.0	1999.0	1841.8	1720.8	1714.7
67.5°	1439.5	1436.5	1460.7	1478.9	1497.0	1497.0	1542.4	1590.7	1569.6	1472.8	1463.7
70°	1279.3	1288.3	1306.5	1309.5	1315.5	1294.4	1258.1	1243.0	1267.2	1206.7	1194.6
72.5°	1055.5	1085.7	1106.9	1109.9	1076.6	1049.4	1001.0	949.6	931.5	919.4	916.3
75°	810.5	831.7	840.7	837.7	825.6	786.3	728.8	677.4	644.2	607.9	626.0
77.5°	547.4	577.6	592.8	592.8	574.6	514.1	486.9	447.6	414.3	375.0	381.1
80°	384.1	405.2	429.4	426.4	396.2	365.9	326.6	290.3	263.1	232.9	229.8
82.5°	287.3	299.4	311.5	305.4	284.3	254.0	226.8	193.6	163.3	142.1	142.1
85°	102.8	111.9	136.1	142.1	154.2	154.2	130.0	108.9	87.7	72.6	72.6
87.5°	30.2	30.2	33.3	33.3	30.2	33.3	27.2	30.2	33.3	21.2	21.2
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)