

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: P529390

Luminaire Tested: **GALN-SA4C-735-U-T3R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529390
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-735-U-T3R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3500K, 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: 22617 lumens
Efficiency: N/A
Efficacy: 106.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

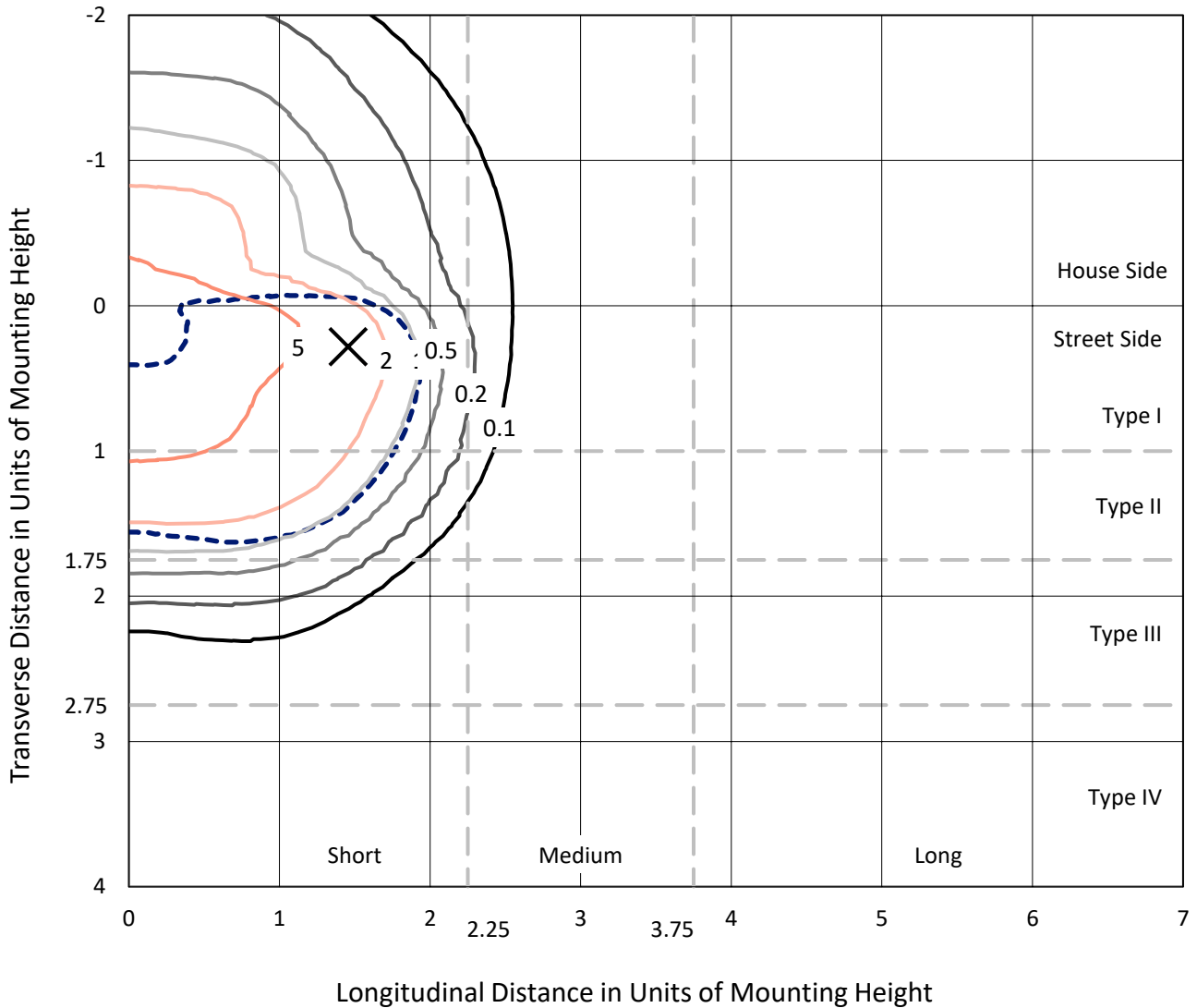
Input Watts (W): 213
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

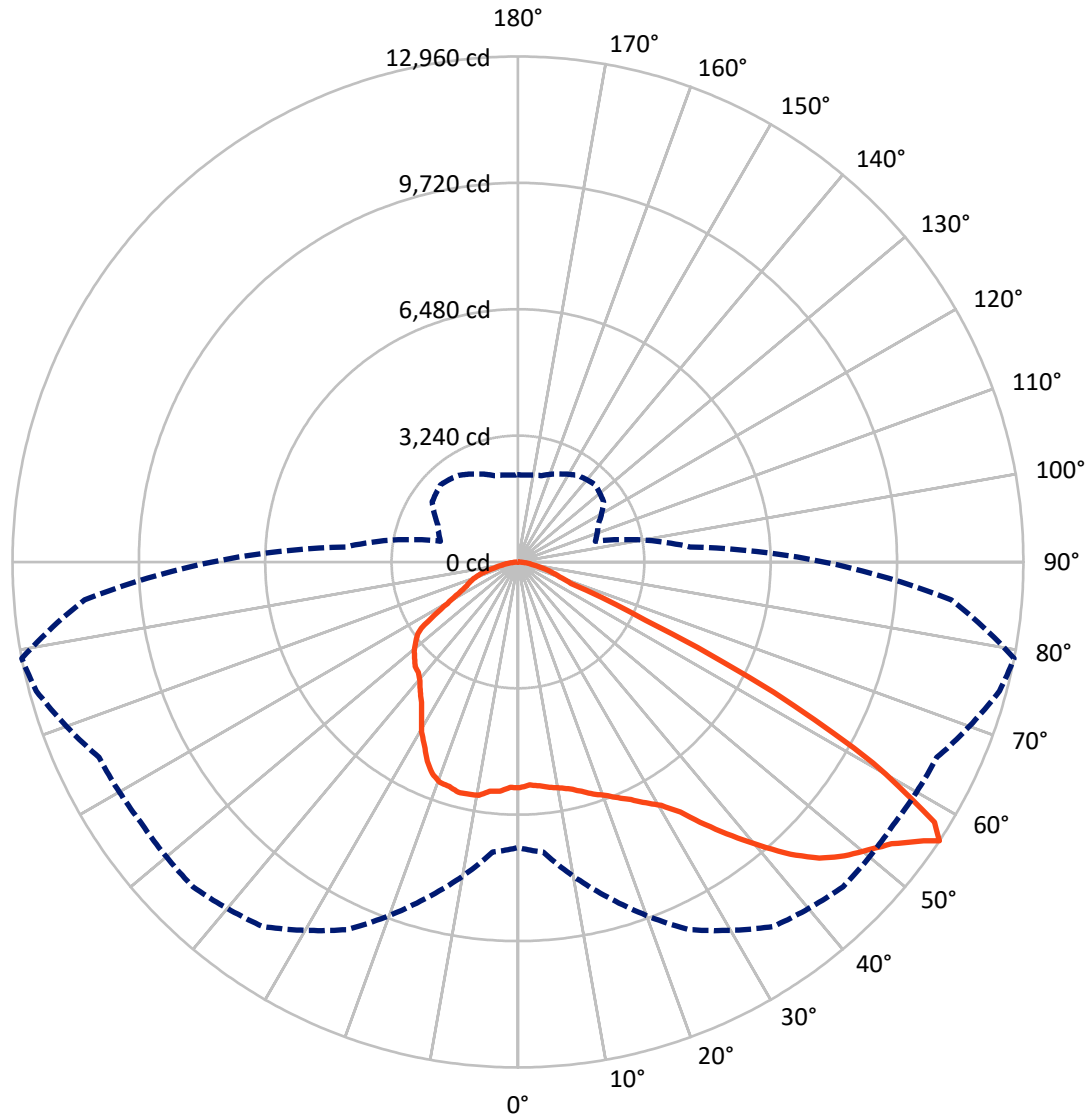
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.3 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
House Side	Lumens	6679.3	0.0	6679.3
	% Fixture	29.5	0.0	29.5
Street Side	Lumens	15937.7	0.0	15937.7
	% Fixture	70.5	0.0	70.5
Total	Lumens	22617.0	0.0	22617.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	526.1	2.3
10°-20°	1439.9	6.4
20°-30°	2463.3	10.9
30°-40°	3775.4	16.7
40°-50°	5102.4	22.6
50°-60°	5860.3	25.9
60°-70°	2671.3	11.8
70°-80°	658.6	2.9
80°-90°	119.7	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°	22617.0	100.0
0°-180°	22617.0	100.0

Coefficient of Utilization



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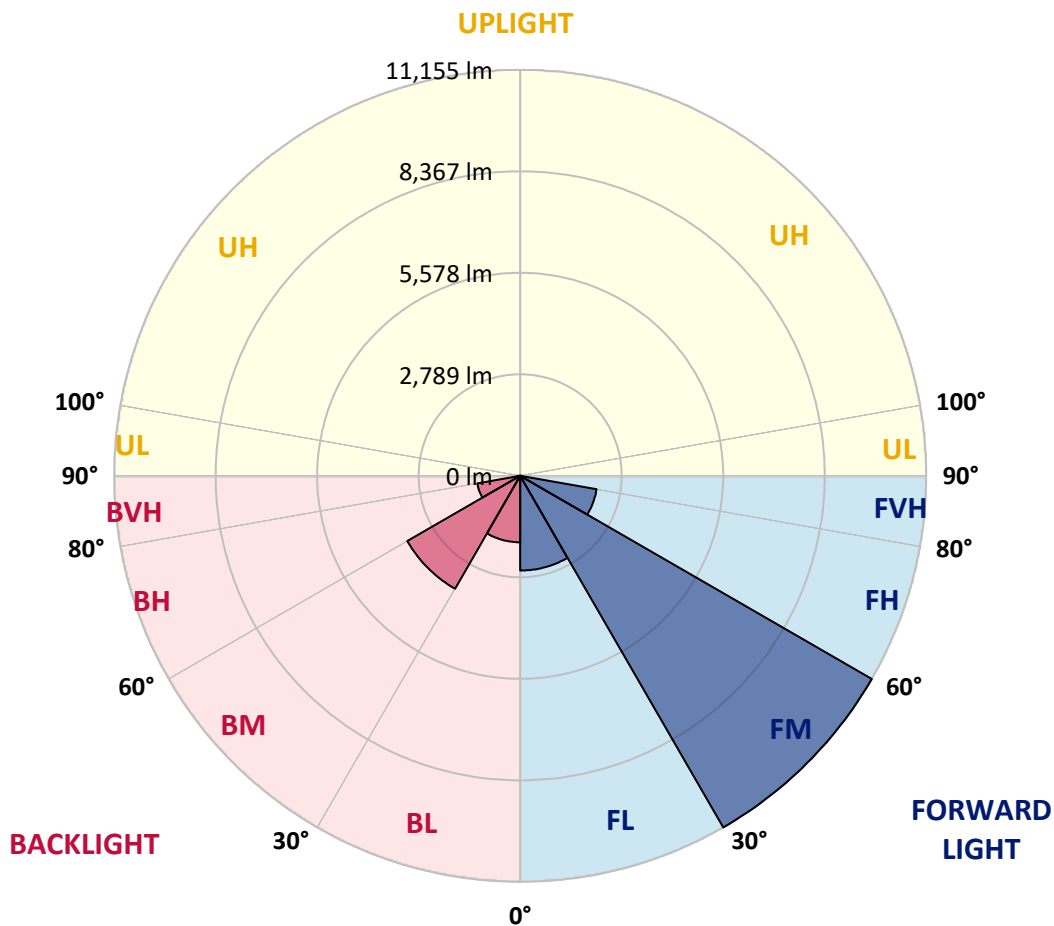
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2602.3	11.5			
FM (30°-60°)	11155.4	49.3			
FH (60°-80°)	2132.3	9.4			G2/5000
FVH (80°-90°)	47.8	0.2			G1/100
BL (0°-30°)	1827.1	8.1	B3/2500		
BM (30°-60°)	3582.7	15.8	B3/5000		
BH (60°-80°)	1197.6	5.3	B3/2500		G3/2500
BVH (80°-90°)	71.9	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°	5786.8	5786.8	5786.8	5786.8	5786.8	5786.8	5786.8	5786.8	5786.8	5786.8	5786.8
2.5°	5505.1	5491.0	5524.8	5550.1	5581.1	5620.6	5640.3	5651.6	5750.2	5724.8	5800.9
5°	5386.7	5350.1	5375.5	5395.2	5448.7	5496.6	5550.1	5634.7	5724.8	5764.3	5857.2
7.5°	5282.5	5262.8	5257.1	5271.2	5344.5	5406.5	5499.4	5623.4	5769.9	5834.7	5888.2
10°	5110.6	5082.5	5124.7	5217.7	5237.4	5367.0	5474.1	5651.6	5778.3	5891.0	6048.8
12.5°	5034.6	5006.4	5014.8	5068.4	5206.4	5330.4	5457.2	5657.2	5924.8	5969.9	6181.2
15°	5155.7	5127.5	5136.0	5121.9	5254.3	5319.1	5519.1	5769.9	6026.3	6102.3	6327.7
17.5°	5431.8	5434.6	5398.0	5367.0	5336.0	5474.1	5612.1	5837.5	6065.7	6257.3	6426.3
20°	5958.7	5865.7	5792.4	5617.8	5569.9	5629.0	5803.7	6020.6	6226.3	6384.1	6575.6
22.5°	6364.3	6372.8	6268.6	5981.2	5876.9	5902.3	6051.6	6229.1	6454.5	6567.2	6786.9
25°	6953.2	6894.0	6781.3	6553.1	6319.3	6339.0	6448.9	6609.5	6671.4	6750.3	6989.8
27.5°	7491.3	7508.2	7285.6	7071.5	6781.3	6725.0	6922.2	6950.4	6846.1	6995.4	7077.1
30°	8037.8	8023.8	7877.3	7626.5	7342.0	7353.2	7440.6	7302.5	7158.8	7240.5	7296.9
32.5°	8604.1	8443.5	8437.9	8212.5	7995.6	7891.3	7784.3	7851.9	7629.3	7646.2	7592.7
35°	9057.7	9080.3	8950.7	8790.1	8683.0	8499.9	8206.9	8328.0	8285.8	8266.0	8035.0
37.5°	9387.3	9300.0	9364.8	9311.3	9209.8	8981.6	8677.4	8792.9	8812.6	8908.4	8640.7
40°	9657.8	9621.2	9793.0	9821.2	9750.8	9257.7	8711.2	9054.9	9350.7	9559.2	9240.8
42.5°	9787.4	9866.3	10046.6	10263.5	10105.8	9578.9	8885.9	9254.9	9914.2	10243.8	9809.9
45°	9962.1	9860.7	10128.3	10525.5	10528.4	9849.4	9054.9	9525.4	10353.7	10832.6	10198.7
47.5°	9784.6	9835.3	10111.4	10615.7	10745.3	10133.9	9511.3	9908.5	10838.3	11263.7	10559.4
50°	9387.3	9488.8	9993.1	10517.1	10908.7	10435.4	10035.3	10322.7	11286.2	11610.2	10618.5
52.5°	8973.2	9029.5	9818.4	10593.2	10982.0	10824.2	10736.8	10894.6	11832.8	12001.8	10691.8
55°	7846.3	8113.9	9240.8	10559.4	11339.8	11525.7	11458.1	11689.1	12452.6	12621.6	11091.8
56°	7325.1	7465.9	8894.3	10401.6	11410.2	11782.1	11748.3	11852.5	12782.2	12959.7	11153.8
57.5°	6361.5	6372.8	7584.3	9702.9	11145.4	11858.1	11824.3	11906.0	12717.4	12596.3	10610.1
60°	3980.9	4155.6	5161.3	7463.1	9477.5	11001.7	11193.2	10536.8	10722.8	10466.4	8254.8
62.5°	2062.3	2036.9	2704.6	4364.0	6291.1	7877.3	8054.7	8023.8	7736.4	7361.7	5392.4
65°	1028.3	1034.0	1414.3	2160.9	3223.0	4124.6	4620.4	4673.9	3910.5	3597.7	2558.1
67.5°	746.6	774.8	1017.1	1321.3	1518.5	1698.8	2082.0	2042.6	1546.7	1470.6	1363.6
70°	580.4	605.7	825.5	1008.6	915.6	915.6	997.3	1031.1	1101.6	1132.6	1169.2
72.5°	422.6	442.3	631.1	695.9	600.1	645.2	746.6	825.5	898.7	910.0	952.3
75°	290.2	307.1	414.1	383.2	360.6	445.1	546.6	619.8	673.3	701.5	726.9
77.5°	188.8	194.4	236.7	200.0	231.0	287.4	355.0	417.0	470.5	493.0	498.7
80°	84.5	93.0	101.4	126.8	160.6	205.7	253.6	304.3	338.1	346.5	363.4
82.5°	47.9	47.9	62.0	90.2	118.3	149.3	183.1	219.8	259.2	267.6	264.8
85°	25.4	25.4	36.6	53.5	73.3	87.3	84.5	87.3	93.0	107.1	104.2
87.5°	8.5	8.5	11.3	11.3	14.1	16.9	14.1	19.7	25.4	25.4	25.4
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°	5786.8	5786.8	5786.8	5786.8	5786.8	5786.8	5786.8	5786.8	5786.8	5786.8	5786.8
2.5°	5778.3	5803.7	5769.9	5843.1	5843.1	5829.1	5758.6	5781.2	5798.1	5798.1	5812.2
5°	5888.2	5879.8	5902.3	5815.0	5761.4	5741.7	5626.2	5569.9	5522.0	5519.1	5476.9
7.5°	5950.2	5927.7	5919.2	5854.4	5617.8	5474.1	5226.1	5082.5	5051.5	4941.6	4983.9
10°	6048.8	6091.1	6048.8	5696.6	5367.0	5037.4	4795.1	4572.5	4485.2	4414.8	4372.5
12.5°	6251.7	6231.9	5986.8	5510.7	5048.7	4657.0	4296.4	4062.6	3975.3	3913.3	3907.6
15°	6423.5	6324.9	5950.2	5217.7	4552.8	4135.8	3840.0	3673.8	3634.4	3640.0	3665.3
17.5°	6482.7	6415.1	5758.6	4913.4	4183.7	3693.5	3555.5	3530.1	3566.7	3609.0	3620.3
20°	6575.6	6468.6	5679.7	4499.3	3727.3	3417.4	3409.0	3499.1	3566.7	3628.7	3637.2
22.5°	6770.0	6499.6	5423.4	4107.7	3414.6	3335.7	3417.4	3493.5	3597.7	3648.4	3603.4
25°	6826.4	6432.0	5062.7	3637.2	3217.4	3285.0	3372.3	3476.6	3549.8	3578.0	3597.7
27.5°	6874.3	6327.7	4575.3	3324.4	3155.4	3282.2	3372.3	3459.7	3499.1	3524.5	3547.0
30°	7009.5	6296.7	4152.7	3116.0	3116.0	3225.8	3341.4	3363.9	3417.4	3448.4	3487.9
32.5°	7077.1	6082.6	3718.9	2983.6	3076.5	3254.0	3262.5	3304.7	3307.5	3332.9	3290.6
35°	7254.6	5930.5	3316.0	2887.8	3093.4	3225.8	3268.1	3242.7	3104.7	3037.1	3051.2
37.5°	7384.2	5854.4	3025.8	2876.5	3096.2	3256.8	3279.4	3087.8	2944.1	2831.4	2859.6
40°	7733.6	5665.6	2806.1	2856.8	3121.6	3290.6	3228.7	3020.2	2761.0	2645.5	2625.8
42.5°	8001.2	5530.4	2668.0	2834.2	3141.3	3338.5	3203.3	2884.9	2620.1	2513.1	2541.2
45°	8311.1	5499.4	2594.8	2839.9	3175.1	3363.9	3172.3	2780.7	2499.0	2456.7	2448.3
47.5°	8421.0	5276.9	2515.9	2792.0	3166.7	3355.4	3068.1	2701.8	2453.9	2459.5	2482.1
50°	8237.9	5048.7	2456.7	2693.4	3110.3	3279.4	2904.7	2597.6	2428.5	2499.0	2538.4
52.5°	8004.0	4814.8	2335.6	2561.0	2994.8	3161.0	2828.6	2591.9	2403.2	2380.6	2389.1
55°	8074.5	4623.2	2166.5	2380.6	2808.9	2941.3	2744.1	2538.4	2341.2	2256.7	2284.9
56°	7846.3	4426.0	2056.7	2268.0	2682.1	2800.4	2701.8	2490.5	2290.5	2234.1	2234.1
57.5°	7201.1	3764.0	1913.0	2087.6	2414.5	2555.3	2620.1	2462.3	2234.1	2135.5	2138.4
60°	5310.7	2676.5	1715.8	1839.7	2000.3	2113.0	2414.5	2383.5	2093.3	2025.7	2000.3
62.5°	3273.7	1955.2	1574.9	1622.8	1704.5	1797.5	2107.4	2158.1	1944.0	1870.7	1853.8
65°	1834.1	1496.0	1467.8	1487.5	1527.0	1574.9	1749.6	1862.3	1715.8	1603.1	1597.4
67.5°	1341.0	1338.2	1360.8	1377.7	1394.6	1394.6	1436.8	1481.9	1462.2	1372.0	1363.6
70°	1191.7	1200.2	1217.1	1219.9	1225.5	1205.8	1172.0	1157.9	1180.5	1124.1	1112.8
72.5°	983.2	1011.4	1031.1	1034.0	1003.0	977.6	932.5	884.6	867.7	856.5	853.7
75°	755.0	774.8	783.2	780.4	769.1	732.5	679.0	631.1	600.1	566.3	583.2
77.5°	509.9	538.1	552.2	552.2	535.3	478.9	453.6	417.0	386.0	349.3	355.0
80°	357.8	377.5	400.1	397.2	369.1	340.9	304.3	270.5	245.1	216.9	214.1
82.5°	267.6	278.9	290.2	284.6	264.8	236.7	211.3	180.3	152.1	132.4	132.4
85°	95.8	104.2	126.8	132.4	143.7	143.7	121.1	101.4	81.7	67.6	67.6
87.5°	28.2	28.2	31.0	31.0	28.2	31.0	25.4	28.2	31.0	19.7	19.7
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)