

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: P532222

Luminaire Tested: **GALN-SA7C-740-U-T3-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P532222
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-16)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA7C-740-U-T3-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 41750 lumens
Efficiency: N/A
Efficacy: 110.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G3

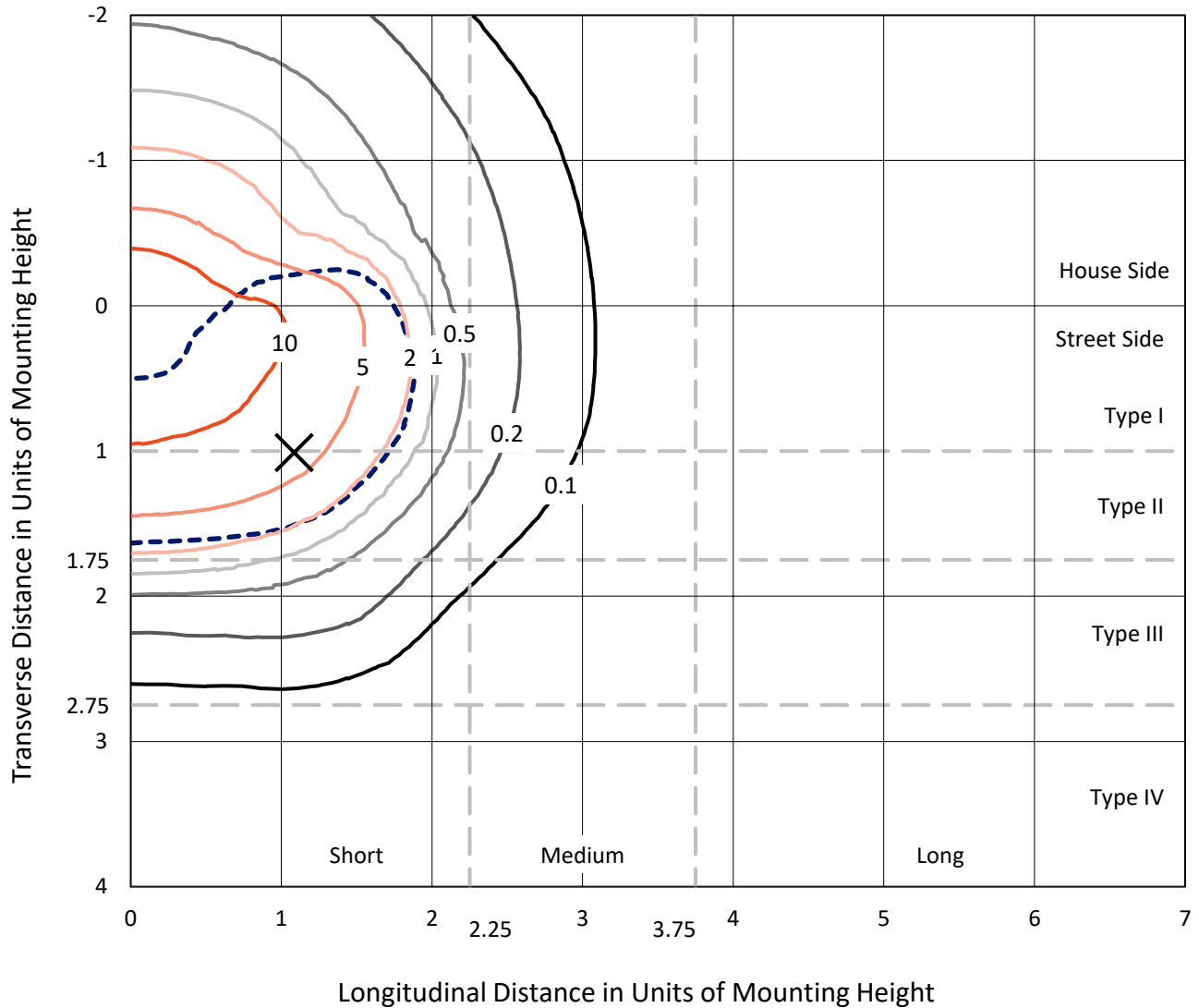
Input Watts (W): 377
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

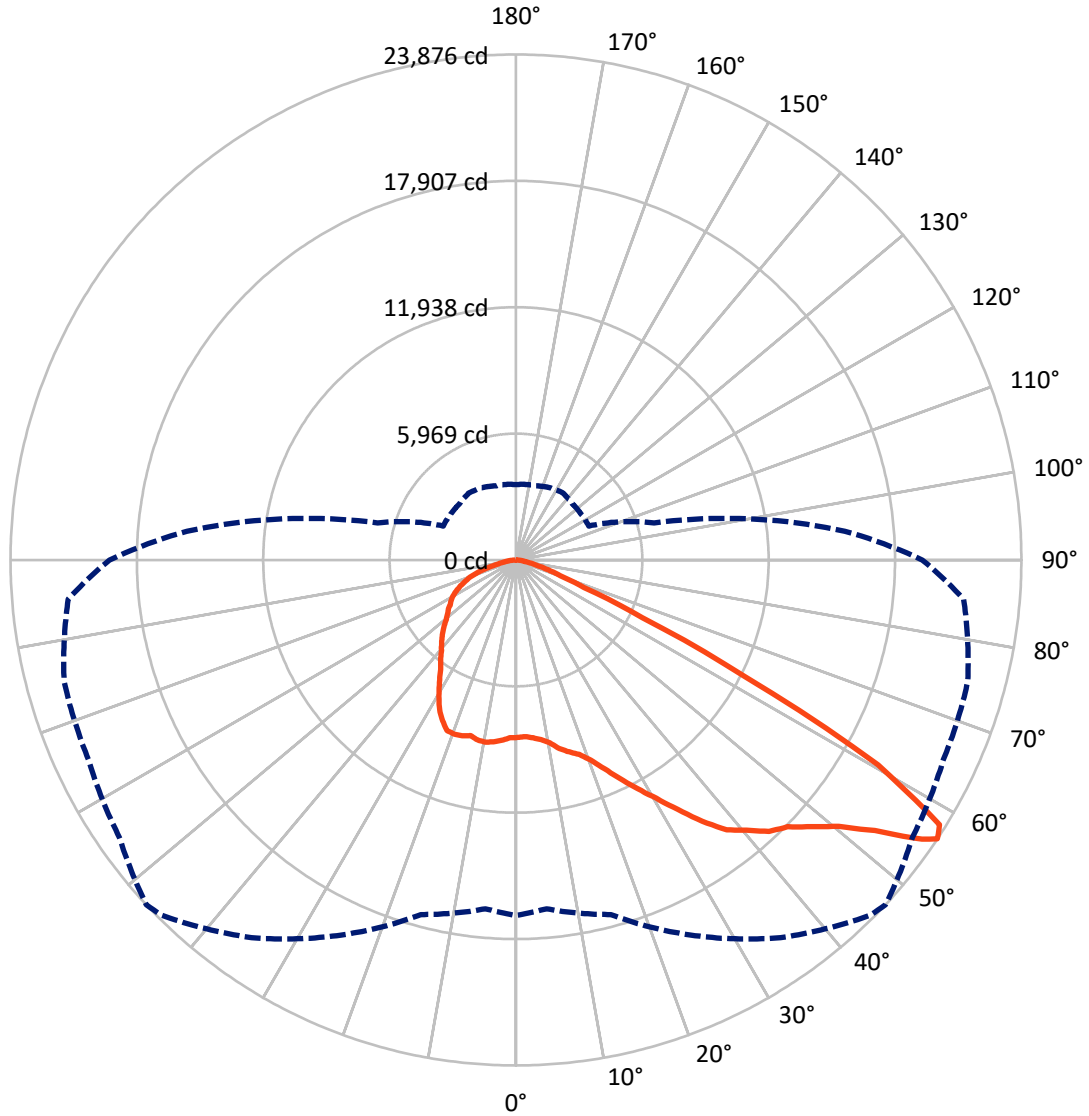
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	13230.1	0.0	13230.1
	% Fixture	31.7	0.0	31.7
Street Side	Lumens	28519.9	0.0	28519.9
	% Fixture	68.3	0.0	68.3
Total	Lumens	41750.0	0.0	41750.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	817.1	2.0
10°-20°	2577.6	6.2
20°-30°	4556.6	10.9
30°-40°	6843.9	16.4
40°-50°	9392.6	22.5
50°-60°	11190.1	26.8
60°-70°	4788.7	11.5
70°-80°	1355.2	3.2
80°-90°	228.1	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°	41750.0	100.0
0°-180°	41750.0	100.0

Coefficient of Utilization



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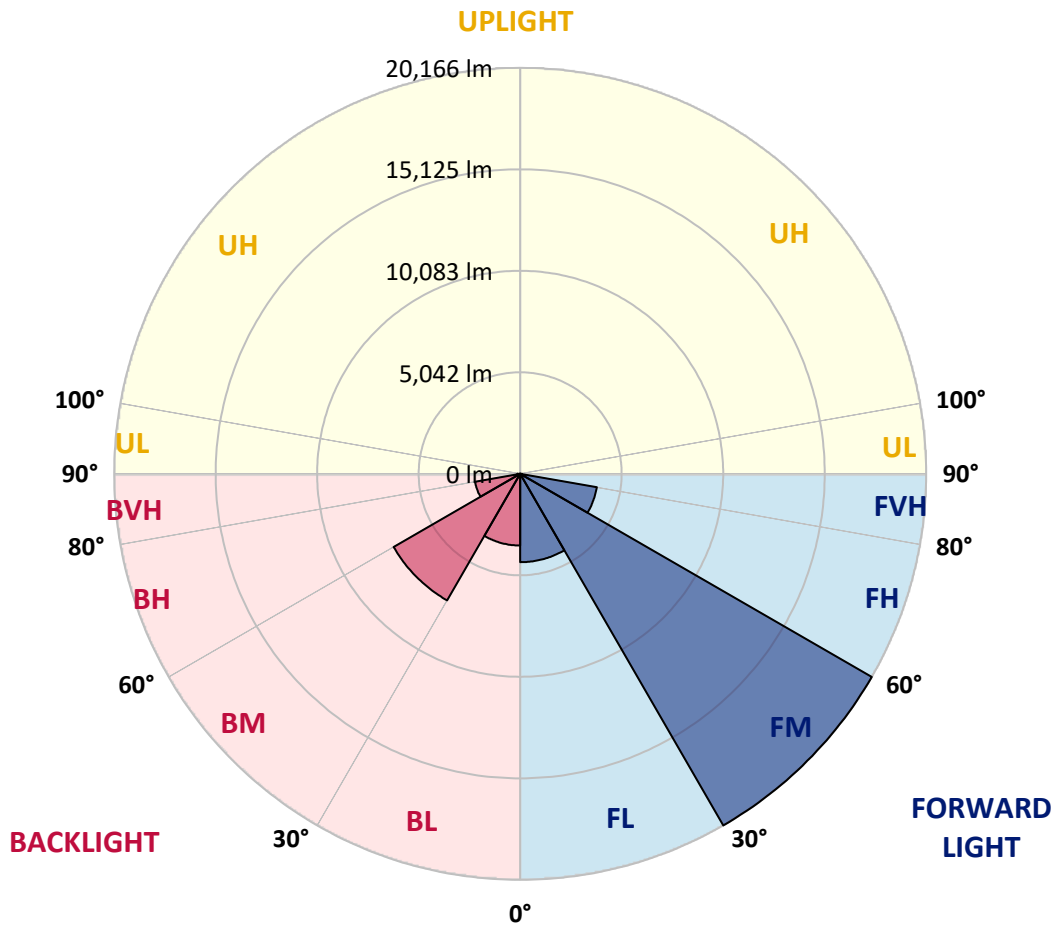
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4389.3	10.5			
FM (30°-60°)	20166.2	48.3			
FH (60°-80°)	3867.6	9.3			G2/5000
FVH (80°-90°)	96.8	0.2			G1/100
BL (0°-30°)	3562.1	8.5	B4/5000		
BM (30°-60°)	7260.4	17.4	B4/8500		
BH (60°-80°)	2276.3	5.5	B3/2500		G3/2500
BVH (80°-90°)	131.3	0.3			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	8386.3	8386.3	8386.3	8386.3	8386.3	8386.3	8386.3	8386.3	8386.3	8386.3	8386.3
2.5°	8354.4	8338.4	8327.7	8412.9	8381.0	8386.3	8354.4	8386.3	8407.6	8359.7	8428.9
5°	8338.4	8386.3	8343.7	8370.3	8439.6	8418.3	8439.6	8503.4	8487.5	8471.5	8450.2
7.5°	8487.5	8492.8	8524.7	8535.4	8556.7	8535.4	8567.3	8625.9	8609.9	8519.4	8530.1
10°	8700.5	8711.1	8716.4	8775.0	8812.3	8817.6	8780.3	8727.1	8721.8	8844.2	8759.0
12.5°	8945.4	8918.8	8982.7	9004.0	9046.6	9094.5	9142.4	9030.6	9099.8	9105.1	9004.0
15°	9302.1	9328.8	9254.2	9254.2	9270.2	9275.5	9408.6	9355.4	9344.7	9286.2	9328.8
17.5°	9834.6	9653.6	9648.2	9573.7	9563.1	9605.6	9653.6	9696.2	9839.9	9722.8	9493.8
20°	10223.3	10265.9	10111.5	10021.0	10036.9	10132.8	10084.9	10276.6	10377.7	10186.0	9962.4
22.5°	10910.2	10766.4	10803.7	10601.4	10617.3	10718.5	10713.2	10910.2	10968.8	10665.3	10340.4
25°	11373.4	11336.2	11368.1	11208.4	11229.7	11309.5	11437.3	11762.1	11666.3	11330.8	10580.1
27.5°	12049.7	11975.1	11948.5	11889.9	11868.6	12081.6	12230.7	12576.8	12507.6	12017.7	11006.0
30°	12741.9	12693.9	12720.6	12481.0	12566.1	13018.7	13061.3	13535.2	13503.3	12640.7	11479.9
32.5°	13221.1	13247.7	13295.6	13162.5	13540.6	13902.6	14046.4	14584.2	14610.8	13710.9	12395.8
35°	13993.2	13902.6	13929.3	14083.7	14259.4	14919.6	15153.9	15510.7	15734.3	14834.4	13274.3
37.5°	14477.7	14573.5	14461.7	14706.7	15164.6	15957.9	16170.9	16538.3	16772.6	15942.0	14472.4
40°	15233.8	15079.4	15159.2	15335.0	15803.5	16836.5	16777.9	17156.0	17230.5	16884.4	15590.5
42.5°	16048.5	15973.9	15862.1	16261.4	16655.5	17406.2	17523.4	17347.7	17725.7	17805.6	17187.9
45°	17022.9	17113.4	17129.4	17140.0	17486.1	18141.0	17981.3	17826.9	18263.5	18843.9	18178.3
47.5°	17928.1	17640.5	17848.2	18135.7	18625.6	18630.9	18817.3	18449.9	18913.1	19429.6	19072.9
50°	18231.6	18093.1	18370.0	18913.1	19669.2	19749.1	19770.4	19248.6	19488.2	19898.2	19381.7
52.5°	18114.4	18066.5	18774.7	19616.0	20723.5	21128.2	21234.7	20590.4	20723.5	20537.1	20063.2
55°	17555.3	17699.1	18412.6	20127.1	21825.7	23077.0	23279.3	22464.7	21618.0	21761.8	21240.0
56°	16788.6	16538.3	17337.0	19546.8	21777.8	23710.6	23875.7	22858.7	22283.6	22097.3	21229.3
57.5°	14243.4	13918.6	14967.6	17587.3	20569.1	23471.0	23593.5	23023.7	22171.8	21793.7	19679.9
60°	8338.4	8498.1	9829.3	12129.5	15867.4	19243.2	19653.2	20068.6	19498.8	17805.6	14648.1
62.5°	4025.4	3924.3	4877.4	6954.0	9669.5	12283.9	12161.5	13327.6	13966.5	12651.3	9248.9
65°	2108.6	2097.9	2662.3	3796.5	5314.0	6453.5	6565.3	7193.6	8072.2	6517.4	4696.3
67.5°	1549.5	1592.1	1874.3	2667.6	3418.4	3487.6	3471.7	3785.8	3871.0	3274.7	2886.0
70°	1214.0	1235.3	1443.0	2028.7	2545.2	2278.9	2231.0	2268.3	2518.6	2625.0	2497.3
72.5°	878.6	899.9	1075.6	1368.4	1592.1	1554.8	1586.7	1794.4	2103.2	2215.0	2081.9
75°	585.7	601.7	697.5	836.0	942.5	1017.0	1075.6	1315.2	1602.7	1666.6	1602.7
77.5°	404.7	420.6	484.5	591.0	601.7	649.6	670.9	782.7	958.4	1038.3	995.7
80°	229.0	229.0	260.9	303.5	372.7	436.6	447.3	537.8	617.7	670.9	681.6
82.5°	106.5	111.8	138.4	186.4	244.9	303.5	314.2	372.7	431.3	484.5	500.5
85°	53.2	58.6	79.9	111.8	149.1	181.0	175.7	181.0	191.7	181.0	186.4
87.5°	16.0	16.0	21.3	26.6	21.3	26.6	26.6	31.9	37.3	42.6	47.9
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°	8386.3	8386.3	8386.3	8386.3	8386.3	8386.3	8386.3	8386.3	8386.3	8386.3	8386.3
2.5°	8434.2	8450.2	8343.7	8444.9	8407.6	8402.3	8476.8	8466.2	8492.8	8482.2	8418.3
5°	8439.6	8402.3	8514.1	8412.9	8460.9	8562.0	8492.8	8652.5	8572.7	8625.9	8508.8
7.5°	8604.6	8615.3	8594.0	8636.6	8615.3	8663.2	8625.9	8663.2	8599.3	8604.6	8711.1
10°	8748.4	8716.4	8753.7	8700.5	8737.7	8721.8	8636.6	8609.9	8631.2	8604.6	8673.8
12.5°	9014.6	8956.0	8929.4	8865.5	8822.9	8663.2	8530.1	8455.5	8556.7	8572.7	8540.7
15°	9286.2	9291.5	9169.0	9025.3	8759.0	8519.4	8551.4	8578.0	8578.0	8620.6	8540.7
17.5°	9456.6	9456.6	9344.7	9057.2	8785.7	8647.2	8615.3	8530.1	8455.5	8444.9	8439.6
20°	9754.7	9664.2	9408.6	9051.9	8775.0	8711.1	8471.5	8269.2	8114.7	8061.5	8056.2
22.5°	10095.5	9866.6	9509.8	9062.5	8759.0	8668.5	8221.2	7917.7	7640.9	7523.7	7539.7
25°	10409.7	10042.3	9568.4	9014.6	8700.5	8263.8	7763.3	7342.7	7055.1	6959.3	6911.4
27.5°	10628.0	10228.6	9568.4	9057.2	8482.2	7811.2	7300.1	6762.3	6512.0	6448.1	6458.8
30°	10920.8	10462.9	9733.4	8966.7	8045.5	7225.5	6613.2	6261.8	6112.7	6059.4	6096.7
32.5°	11607.7	11075.2	9962.4	8748.4	7529.0	6639.8	6144.6	5947.6	5729.3	5622.8	5585.5
35°	12353.2	11655.6	10186.0	8381.0	6948.7	6107.4	5798.5	5617.5	5356.6	5239.4	5260.7
37.5°	13407.4	12401.1	10202.0	7774.0	6320.3	5809.2	5527.0	5244.8	5031.8	4850.7	4797.5
40°	14829.1	13418.1	10164.7	7135.0	5814.5	5457.8	5250.1	4898.7	4659.1	4531.3	4557.9
42.5°	16080.4	14610.8	10010.3	6410.9	5356.6	5218.1	4983.9	4637.8	4403.5	4270.4	4259.7
45°	17134.7	15489.4	9717.5	5793.2	4973.2	4951.9	4680.4	4414.1	4227.8	4105.3	4158.5
47.5°	18109.1	16197.6	9275.5	5175.5	4621.8	4664.4	4403.5	4238.4	4121.3	4009.5	4004.1
50°	18460.5	16186.9	8886.8	4664.4	4339.6	4318.3	4307.6	4131.9	4009.5	3913.6	3956.2
52.5°	19046.2	16367.9	8466.2	4313.0	4084.0	4089.3	4126.6	3998.8	3860.4	3801.8	3855.0
55°	19887.5	16394.6	7539.7	3903.0	3871.0	3908.3	3908.3	3823.1	3705.9	3658.0	3631.4
56°	19200.6	15601.2	6762.3	3796.5	3764.5	3764.5	3865.7	3769.8	3626.1	3588.8	3556.9
57.5°	17709.7	13668.3	5660.1	3668.7	3620.8	3695.3	3748.5	3647.4	3514.3	3461.0	3493.0
60°	12214.7	9248.9	4254.4	3391.8	3391.8	3514.3	3556.9	3407.8	3349.2	3343.9	3301.3
62.5°	7129.7	5388.5	3327.9	3141.5	3152.2	3253.4	3285.3	3200.1	3125.6	3216.1	3258.7
65°	3780.5	3216.1	2854.0	2875.3	2880.6	2960.5	3098.9	3093.6	3088.3	3114.9	3120.2
67.5°	2736.9	2673.0	2593.1	2571.8	2582.4	2641.0	2779.5	2886.0	2880.6	2816.7	2768.8
70°	2438.7	2348.2	2300.2	2305.6	2263.0	2332.2	2444.0	2513.2	2390.8	2316.2	2284.3
72.5°	2028.7	2002.1	1970.1	1975.4	1890.2	1874.3	1746.5	1746.5	1714.5	1693.2	1730.5
75°	1549.5	1538.8	1554.8	1528.2	1437.7	1341.8	1267.3	1198.0	1091.6	1049.0	1027.7
77.5°	979.7	1011.7	1049.0	990.4	953.1	883.9	809.3	740.1	654.9	607.0	607.0
80°	665.6	692.2	718.8	708.2	665.6	601.7	543.1	468.6	410.0	372.7	367.4
82.5°	505.8	527.1	564.4	521.8	479.2	426.0	378.0	324.8	271.6	229.0	229.0
85°	181.0	207.7	229.0	250.3	266.2	271.6	234.3	191.7	154.4	122.5	117.1
87.5°	47.9	53.2	58.6	53.2	53.2	53.2	58.6	53.2	47.9	37.3	37.3
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)