

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: P531988

Luminaire Tested: **GALN-SA7B-740-U-T3-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P531988
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-SA7B-740-U-T3-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 4000K, 800mA 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: 33791 lumens
Efficiency: N/A
Efficacy: 118.2 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

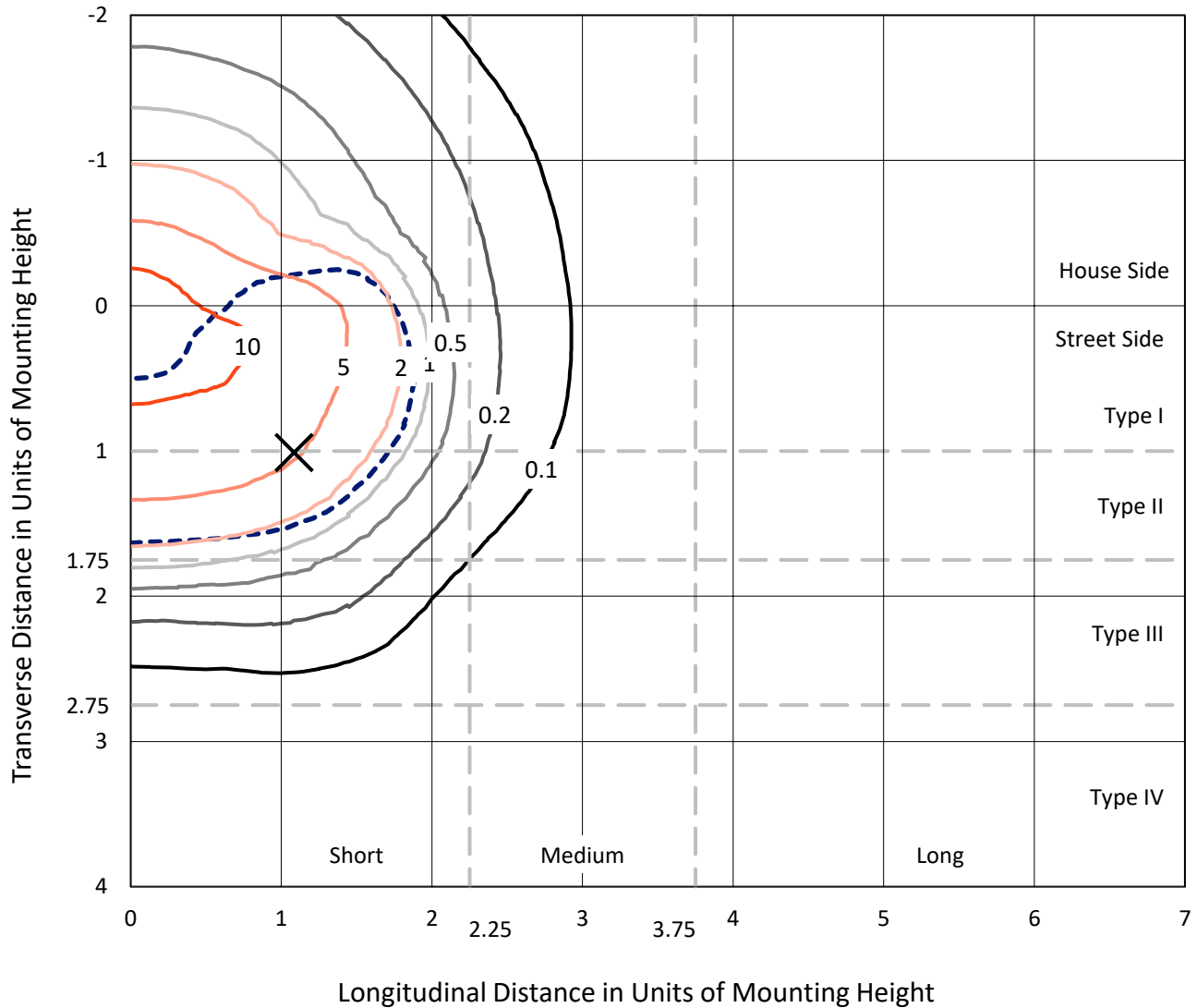
Input Watts (W): 286
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

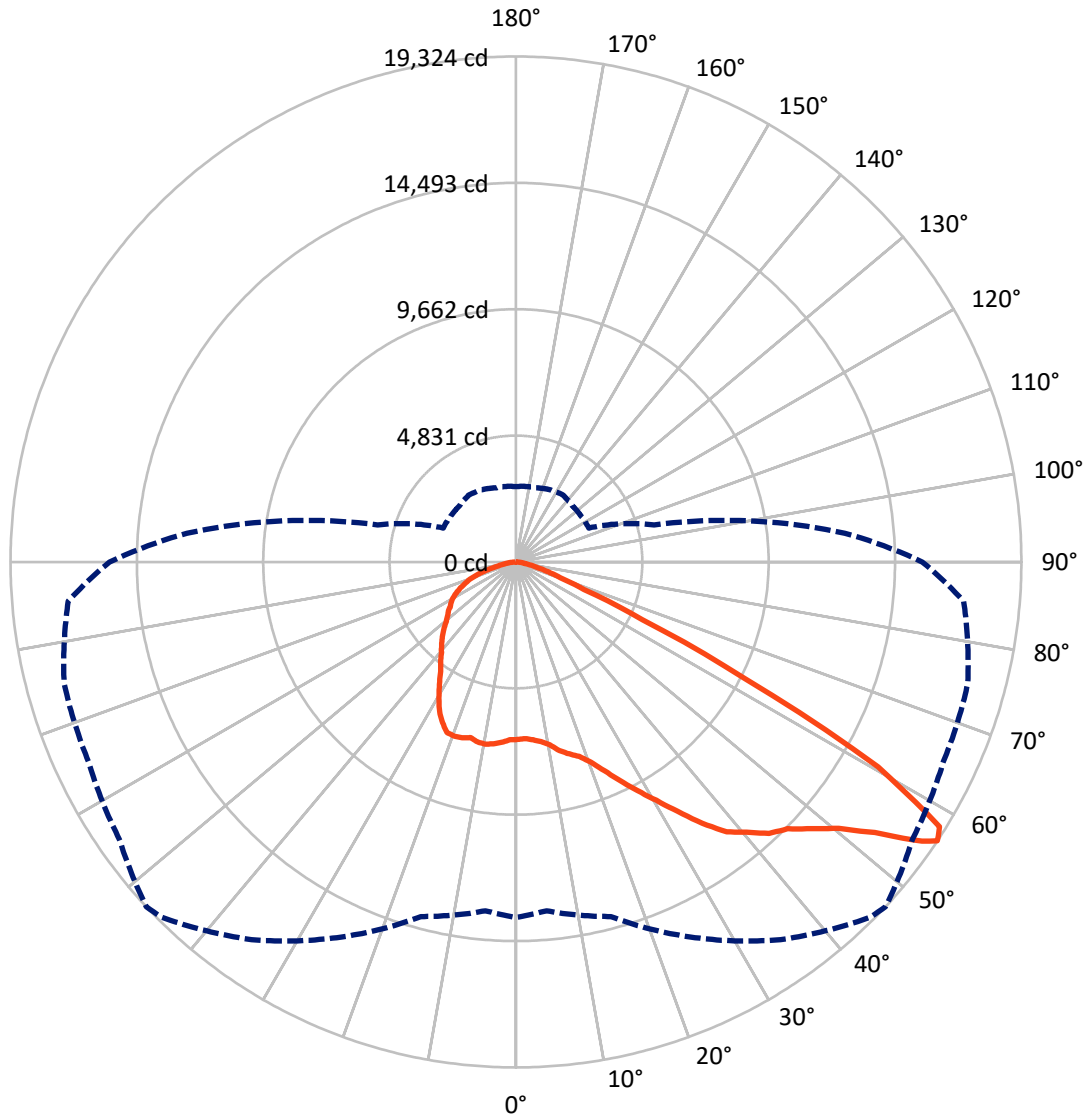
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.4 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	10708.0	0.0	10708.0
	% Fixture	31.7	0.0	31.7
Street Side	Lumens	23083.0	0.0	23083.0
	% Fixture	68.3	0.0	68.3
Total	Lumens	33791.0	0.0	33791.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	661.4	2.0
10°-20°	2086.3	6.2
20°-30°	3688.0	10.9
30°-40°	5539.2	16.4
40°-50°	7602.1	22.5
50°-60°	9056.9	26.8
60°-70°	3875.8	11.5
70°-80°	1096.8	3.2
80°-90°	184.6	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°	33791.0	100.0
0°-180°	33791.0	100.0

Coefficient of Utilization



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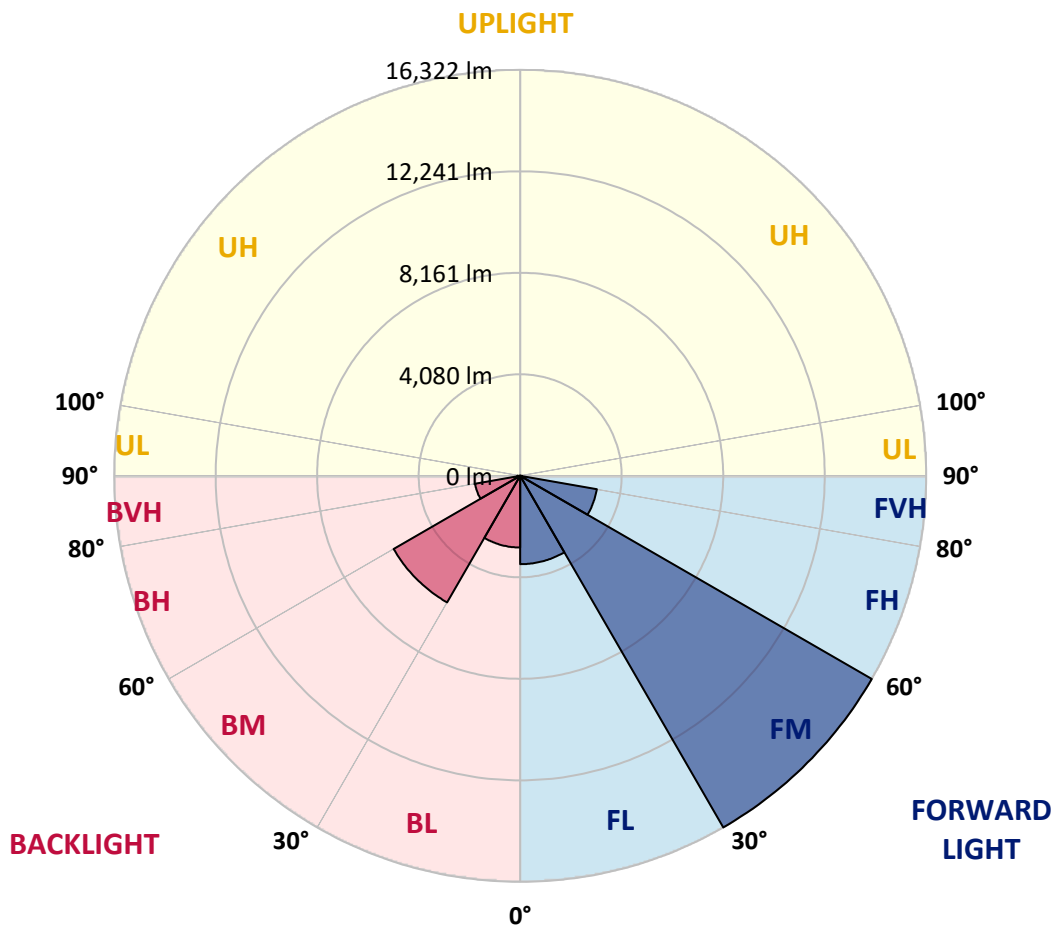
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3552.6	10.5			
FM (30°-60°)	16321.8	48.3			
FH (60°-80°)	3130.3	9.3			G2/5000
FVH (80°-90°)	78.3	0.2			G1/100
BL (0°-30°)	2883.0	8.5	B4/5000		
BM (30°-60°)	5876.3	17.4	B4/8500		
BH (60°-80°)	1842.4	5.5	B3/2500		G3/2500
BVH (80°-90°)	106.2	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°	6787.6	6787.6	6787.6	6787.6	6787.6	6787.6	6787.6	6787.6	6787.6	6787.6	6787.6
2.5°	6761.7	6748.8	6740.2	6809.1	6783.3	6787.6	6761.7	6787.6	6804.8	6766.0	6822.1
5°	6748.8	6787.6	6753.1	6774.7	6830.7	6813.4	6830.7	6882.4	6869.5	6856.5	6839.3
7.5°	6869.5	6873.8	6899.6	6908.3	6925.5	6908.3	6934.1	6981.5	6968.6	6895.3	6903.9
10°	7041.9	7050.5	7054.8	7102.2	7132.4	7136.7	7106.5	7063.4	7059.1	7158.2	7089.3
12.5°	7240.1	7218.5	7270.3	7287.5	7322.0	7360.8	7399.5	7309.0	7365.1	7369.4	7287.5
15°	7528.8	7550.4	7490.0	7490.0	7503.0	7507.3	7615.0	7571.9	7563.3	7515.9	7550.4
17.5°	7959.8	7813.3	7809.0	7748.6	7740.0	7774.5	7813.3	7847.7	7964.1	7869.3	7684.0
20°	8274.4	8308.9	8183.9	8110.6	8123.6	8201.1	8162.3	8317.5	8399.4	8244.2	8063.2
22.5°	8830.3	8714.0	8744.1	8580.4	8593.3	8675.2	8670.9	8830.3	8877.7	8632.1	8369.2
25°	9205.3	9175.1	9200.9	9071.7	9088.9	9153.5	9257.0	9519.9	9442.3	9170.8	8563.1
27.5°	9752.6	9692.2	9670.7	9623.3	9606.0	9778.4	9899.1	10179.2	10123.2	9726.7	8907.9
30°	10312.8	10274.0	10295.6	10101.7	10170.6	10536.9	10571.4	10954.9	10929.1	10230.9	9291.5
32.5°	10700.7	10722.2	10761.0	10653.3	10959.3	11252.3	11368.7	11803.9	11825.5	11097.2	10032.7
35°	11325.6	11252.3	11273.9	11398.8	11541.0	12075.4	12265.1	12553.8	12734.8	12006.5	10743.8
37.5°	11717.7	11795.3	11704.8	11903.1	12273.7	12915.8	13088.2	13385.5	13575.2	12902.9	11713.4
40°	12329.7	12204.7	12269.4	12411.6	12790.8	13626.9	13579.5	13885.5	13945.8	13665.7	12618.4
42.5°	12989.1	12928.7	12838.2	13161.5	13480.4	14088.0	14182.8	14040.6	14346.6	14411.2	13911.3
45°	13777.7	13851.0	13863.9	13872.5	14152.7	14682.7	14553.4	14428.5	14781.9	15251.6	14712.9
47.5°	14510.3	14277.6	14445.7	14678.4	15074.9	15079.2	15230.0	14932.7	15307.6	15725.6	15436.9
50°	14756.0	14643.9	14868.0	15307.6	15919.6	15984.2	16001.5	15579.1	15773.1	16104.9	15686.9
52.5°	14661.2	14622.4	15195.6	15876.5	16772.9	17100.4	17186.6	16665.1	16772.9	16622.0	16238.5
55°	14208.7	14325.0	14902.5	16290.2	17665.0	18677.7	18841.5	18182.1	17496.9	17613.2	17190.9
56°	13588.1	13385.5	14032.0	15820.5	17626.2	19190.6	19324.1	18501.0	18035.6	17884.7	17182.3
57.5°	11528.1	11265.2	12114.2	14234.5	16647.9	18996.6	19095.7	18634.6	17945.1	17639.1	15928.2
60°	6748.8	6878.1	7955.5	9817.2	12842.5	15574.8	15906.7	16242.8	15781.7	14411.2	11855.6
62.5°	3258.0	3176.2	3947.6	5628.3	7826.2	9942.2	9843.1	10786.9	11304.0	10239.6	7485.7
65°	1706.6	1698.0	2154.8	3072.7	4301.0	5223.2	5313.7	5822.2	6533.3	5274.9	3801.0
67.5°	1254.1	1288.6	1517.0	2159.1	2766.7	2822.8	2809.8	3064.1	3133.1	2650.4	2335.8
70°	982.6	999.8	1167.9	1641.9	2060.0	1844.5	1805.7	1835.9	2038.4	2124.6	2021.2
72.5°	711.1	728.3	870.5	1107.6	1288.6	1258.4	1284.3	1452.3	1702.3	1792.8	1685.0
75°	474.1	487.0	564.6	676.6	762.8	823.1	870.5	1064.5	1297.2	1348.9	1297.2
77.5°	327.5	340.5	392.2	478.4	487.0	525.8	543.0	633.5	775.7	840.4	805.9
80°	185.3	185.3	211.2	245.6	301.7	353.4	362.0	435.3	499.9	543.0	551.6
82.5°	86.2	90.5	112.0	150.8	198.2	245.6	254.3	301.7	349.1	392.2	405.1
85°	43.1	47.4	64.6	90.5	120.7	146.5	142.2	146.5	155.1	146.5	150.8
87.5°	12.9	12.9	17.2	21.5	17.2	21.5	21.5	25.9	30.2	34.5	38.8
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°	6787.6	6787.6	6787.6	6787.6	6787.6	6787.6	6787.6	6787.6	6787.6	6787.6	6787.6
2.5°	6826.4	6839.3	6753.1	6835.0	6804.8	6800.5	6860.8	6852.2	6873.8	6865.2	6813.4
5°	6830.7	6800.5	6891.0	6809.1	6847.9	6929.8	6873.8	7003.1	6938.4	6981.5	6886.7
7.5°	6964.3	6972.9	6955.7	6990.1	6972.9	7011.7	6981.5	7011.7	6960.0	6964.3	7050.5
10°	7080.6	7054.8	7084.9	7041.9	7072.0	7059.1	6990.1	6968.6	6985.8	6964.3	7020.3
12.5°	7296.1	7248.7	7227.2	7175.4	7141.0	7011.7	6903.9	6843.6	6925.5	6938.4	6912.6
15°	7515.9	7520.2	7421.1	7304.7	7089.3	6895.3	6921.2	6942.7	6942.7	6977.2	6912.6
17.5°	7653.8	7653.8	7563.3	7330.6	7110.8	6998.8	6972.9	6903.9	6843.6	6835.0	6830.7
20°	7895.1	7821.9	7615.0	7326.3	7102.2	7050.5	6856.5	6692.8	6567.8	6524.7	6520.4
22.5°	8171.0	7985.6	7696.9	7334.9	7089.3	7016.0	6654.0	6408.3	6184.2	6089.4	6102.4
25°	8425.2	8127.9	7744.3	7296.1	7041.9	6688.5	6283.4	5942.9	5710.2	5632.6	5593.8
27.5°	8601.9	8278.7	7744.3	7330.6	6865.2	6322.2	5908.4	5473.2	5270.6	5218.9	5227.5
30°	8838.9	8468.3	7877.9	7257.3	6511.8	5848.1	5352.5	5068.1	4947.4	4904.3	4934.5
32.5°	9394.9	8963.9	8063.2	7080.6	6093.7	5374.0	4973.3	4813.8	4637.1	4550.9	4520.7
35°	9998.2	9433.7	8244.2	6783.3	5624.0	4943.1	4693.1	4546.6	4335.4	4240.6	4257.9
37.5°	10851.5	10037.0	8257.2	6292.0	5115.5	4701.7	4473.3	4244.9	4072.6	3926.0	3882.9
40°	12002.2	10860.1	8227.0	5774.8	4706.1	4417.3	4249.2	3964.8	3770.9	3667.5	3689.0
42.5°	13014.9	11825.5	8102.0	5188.7	4335.4	4223.4	4033.8	3753.6	3564.0	3456.3	3447.7
45°	13868.2	12536.6	7865.0	4688.8	4025.1	4007.9	3788.1	3572.6	3421.8	3322.7	3365.8
47.5°	14656.9	13109.7	7507.3	4188.9	3740.7	3775.2	3564.0	3430.4	3335.6	3245.1	3240.8
50°	14941.3	13101.1	7192.7	3775.2	3512.3	3495.1	3486.4	3344.2	3245.1	3167.5	3202.0
52.5°	15415.4	13247.6	6852.2	3490.8	3305.4	3309.8	3339.9	3236.5	3124.4	3077.0	3120.1
55°	16096.3	13269.2	6102.4	3158.9	3133.1	3163.2	3163.2	3094.3	2999.5	2960.7	2939.1
56°	15540.3	12627.1	5473.2	3072.7	3046.9	3046.9	3128.8	3051.2	2934.8	2904.7	2878.8
57.5°	14333.7	11062.7	4581.1	2969.3	2930.5	2990.8	3033.9	2952.1	2844.3	2801.2	2827.1
60°	9886.2	7485.7	3443.4	2745.2	2745.2	2844.3	2878.8	2758.1	2710.7	2706.4	2671.9
62.5°	5770.5	4361.3	2693.5	2542.7	2551.3	2633.2	2659.0	2590.1	2529.7	2603.0	2637.5
65°	3059.8	2603.0	2309.9	2327.2	2331.5	2396.1	2508.2	2503.9	2499.6	2521.1	2525.4
67.5°	2215.1	2163.4	2098.8	2081.5	2090.1	2137.6	2249.6	2335.8	2331.5	2279.8	2241.0
70°	1973.8	1900.5	1861.7	1866.0	1831.6	1887.6	1978.1	2034.1	1935.0	1874.7	1848.8
72.5°	1641.9	1620.4	1594.5	1598.9	1529.9	1517.0	1413.5	1413.5	1387.7	1370.4	1400.6
75°	1254.1	1245.5	1258.4	1236.8	1163.6	1086.0	1025.7	969.7	883.5	849.0	831.7
77.5°	793.0	818.8	849.0	801.6	771.4	715.4	655.1	599.0	530.1	491.3	491.3
80°	538.7	560.2	581.8	573.2	538.7	487.0	439.6	379.2	331.8	301.7	297.4
82.5°	409.4	426.6	456.8	422.3	387.9	344.8	306.0	262.9	219.8	185.3	185.3
85°	146.5	168.1	185.3	202.6	215.5	219.8	189.6	155.1	125.0	99.1	94.8
87.5°	38.8	43.1	47.4	43.1	43.1	43.1	47.4	43.1	38.8	30.2	30.2
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)