

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: P531984

Luminaire Tested: **GALN-SA7B-740-U-T2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P531984
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-14)
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-T2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33244 lumens
Efficiency: N/A
Efficacy: 116.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

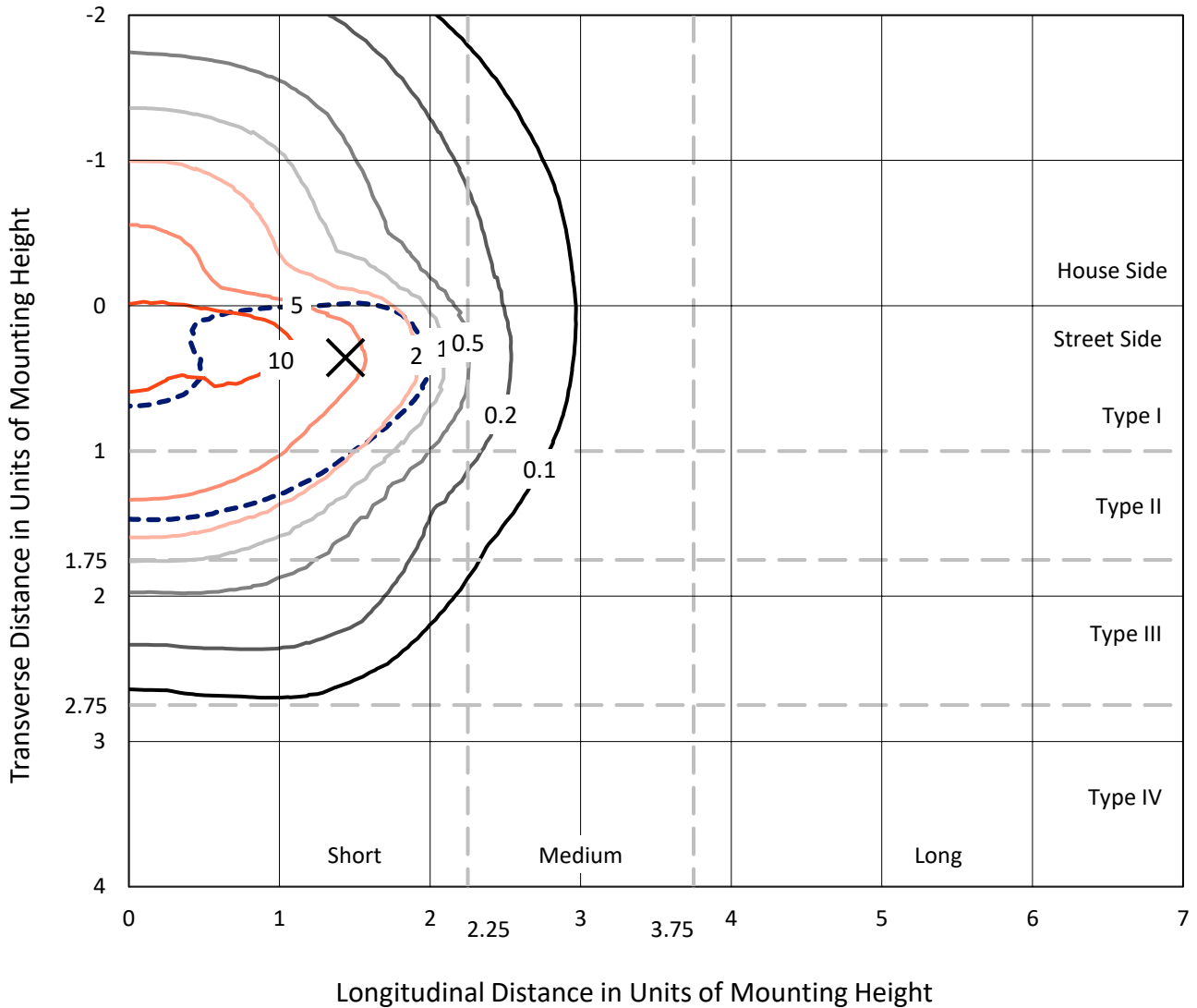
Input Watts (W): 286
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

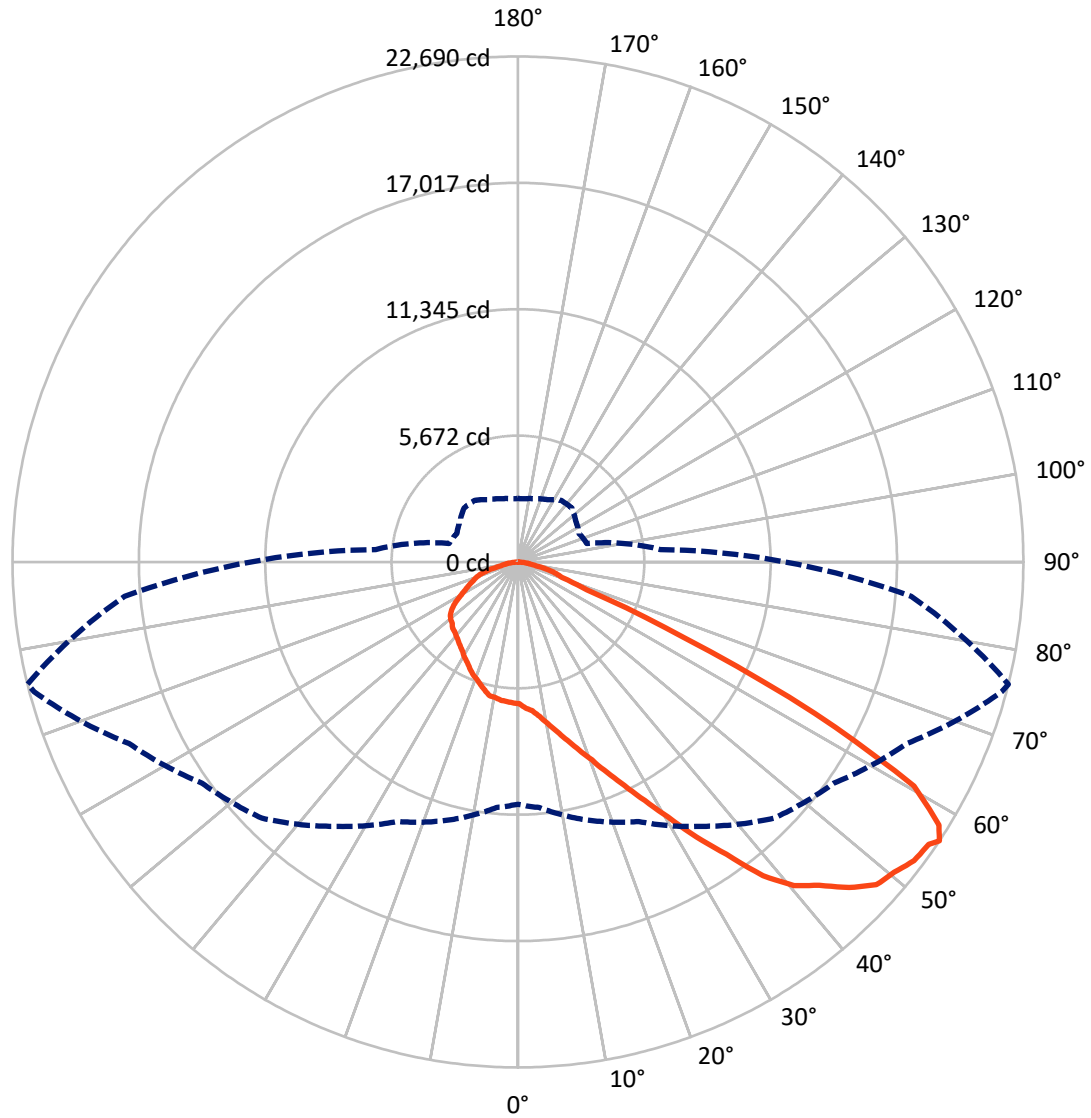
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.1 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8938.3	0.0	8938.3
	% Fixture	26.9	0.0	26.9
Street Side	Lumens	24305.7	0.0	24305.7
	% Fixture	73.1	0.0	73.1
Total	Lumens	33244.0	0.0	33244.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	630.8	1.9
10°-20°	1981.5	6.0
20°-30°	3465.5	10.4
30°-40°	5425.9	16.3
40°-50°	7893.2	23.7
50°-60°	8675.1	26.1
60°-70°	3872.2	11.6
70°-80°	1118.4	3.4
80°-90°	181.4	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°	33244.0	100.0
0°-180°	33244.0	100.0

Coefficient of Utilization



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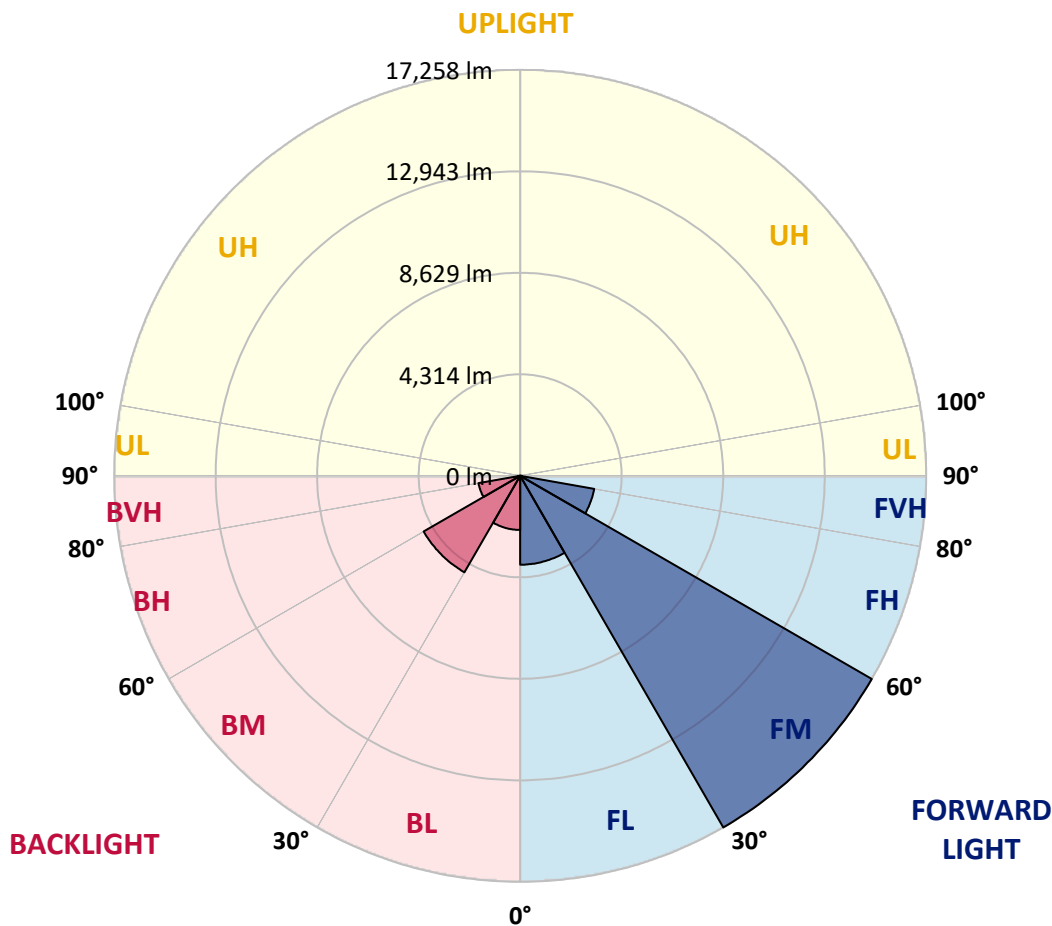
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3777.8	11.4			
FM (30°-60°)	17257.6	51.9			
FH (60°-80°)	3192.2	9.6			G2/5000
FVH (80°-90°)	78.1	0.2			G1/100
BL (0°-30°)	2300.0	6.9	B3/2500		
BM (30°-60°)	4736.6	14.2	B3/5000		
BH (60°-80°)	1798.4	5.4	B3/2500		G3/2500
BVH (80°-90°)	103.3	0.3			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	6360.8	6360.8	6360.8	6360.8	6360.8	6360.8	6360.8	6360.8	6360.8	6360.8	6360.8
2.5°	7007.2	6895.2	6886.6	6856.4	6873.6	6796.1	6714.2	6606.5	6494.4	6563.4	6399.6
5°	7498.5	7347.7	7408.0	7304.6	7317.5	7214.1	7046.0	6921.0	6783.1	6701.3	6584.9
7.5°	7670.9	7683.8	7726.9	7709.7	7623.5	7623.5	7511.4	7291.7	7050.3	7002.9	6809.0
10°	7903.6	7907.9	7860.5	7873.4	7994.1	7938.1	7839.0	7744.2	7433.9	7377.9	7033.1
12.5°	7985.5	7907.9	7985.5	8054.4	8196.7	8274.2	8252.7	8183.7	7851.9	7813.1	7308.9
15°	7998.4	7951.0	8015.7	8170.8	8295.8	8623.3	8787.1	8739.7	8300.1	8304.4	7619.2
17.5°	7938.1	8002.7	8028.6	8162.2	8450.9	8756.9	9230.9	9295.6	8933.6	8877.6	8011.3
20°	8020.0	7972.6	8007.0	8127.7	8511.2	8989.6	9610.2	10036.8	9528.3	9489.5	8416.4
22.5°	8334.6	8269.9	8261.3	8338.9	8614.7	9110.3	10011.0	10778.0	10252.3	10273.8	8920.7
25°	8580.2	8614.7	8584.5	8580.2	8752.6	9291.3	10541.0	11661.5	11234.8	11109.9	9515.4
27.5°	9002.5	9084.4	9024.1	9106.0	9067.2	9562.8	10920.3	12639.7	12295.0	12126.9	10054.0
30°	9588.6	9631.7	9575.7	9575.7	9459.3	9942.0	11265.0	13661.1	13518.9	13290.5	10687.5
32.5°	10360.0	10424.7	10312.6	10248.0	10230.7	10506.5	11885.6	14669.5	14910.8	14716.9	11527.9
35°	11381.4	11342.6	11209.0	11148.7	10915.9	11372.8	12807.8	15828.8	16462.3	16117.5	12544.9
37.5°	12282.1	12221.7	12213.1	11877.0	11933.0	12307.9	13592.1	16707.9	17966.3	17867.2	13618.0
40°	13122.4	13178.4	13268.9	13079.3	12993.1	13406.8	14505.8	17380.2	19134.2	19095.4	14445.4
42.5°	14023.1	13971.4	14130.8	13971.4	13842.1	14428.2	15496.9	17845.6	20159.8	19840.9	15311.6
45°	15328.9	15165.1	15221.1	15234.1	15139.3	15354.7	15906.3	18181.8	20879.5	20845.0	15945.1
47.5°	16419.2	16423.5	16328.7	16255.4	15966.7	16182.1	16363.1	18392.9	21706.9	21650.9	16190.8
50°	16824.3	16768.2	17044.0	17203.5	17220.7	16781.2	16720.8	18509.3	22142.2	21896.5	16436.4
52.5°	15367.7	15419.4	15854.6	16802.7	17350.0	17397.4	17138.9	18750.6	22318.9	22267.2	16634.6
55°	12368.2	12618.2	13333.6	14428.2	15725.3	17151.8	17591.4	19000.6	22413.7	22370.6	17513.8
56°	10872.9	11066.8	11997.6	12855.2	14484.2	16259.7	17306.9	19267.7	22486.9	22689.5	17720.6
57.5°	8752.6	8976.7	9644.6	10618.6	12540.6	14561.8	16522.6	18940.2	22202.5	22280.1	17871.5
60°	5473.1	5494.6	6296.2	6938.3	8291.5	10265.2	12609.6	16479.5	20547.7	20435.6	16052.9
62.5°	3589.8	3594.1	4322.4	4848.2	5464.4	5916.9	7420.9	10928.9	15160.8	14962.6	11428.8
65°	2521.1	2577.1	3141.6	3844.1	4094.0	3857.0	3809.6	5761.8	8468.2	8183.7	6141.0
67.5°	1844.5	1848.8	2348.7	3102.8	3464.8	2934.8	2383.1	2814.1	3352.8	3344.2	2844.3
70°	1219.6	1271.3	1654.8	2318.5	2732.2	2357.3	1947.9	2012.5	2133.2	2133.2	2116.0
72.5°	711.1	758.5	1012.7	1469.5	1534.2	1473.8	1542.8	1723.8	1801.4	1797.1	1775.5
75°	405.1	426.6	482.7	611.9	762.8	900.7	1133.4	1305.8	1383.3	1430.8	1374.7
77.5°	237.0	250.0	284.4	349.1	396.5	487.0	616.3	736.9	840.4	827.4	836.0
80°	125.0	125.0	159.5	206.9	275.8	344.8	409.4	478.4	534.4	547.3	560.2
82.5°	73.3	77.6	103.4	150.8	198.2	245.6	314.6	362.0	413.7	418.0	426.6
85°	38.8	43.1	64.6	99.1	133.6	150.8	155.1	146.5	159.5	150.8	172.4
87.5°	12.9	12.9	21.5	17.2	17.2	21.5	25.9	25.9	34.5	34.5	34.5
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°	6360.8	6360.8	6360.8	6360.8	6360.8	6360.8	6360.8	6360.8	6360.8	6360.8	6360.8
2.5°	6395.3	6395.3	6322.0	6184.1	6162.6	6106.6	6054.8	6050.5	6011.7	5977.3	5960.0
5°	6516.0	6382.4	6274.6	6149.6	6003.1	5934.2	5856.6	5770.4	5735.9	5770.4	5766.1
7.5°	6653.9	6541.8	6218.6	5985.9	5817.8	5748.9	5662.7	5572.2	5580.8	5580.8	5520.5
10°	6787.5	6636.6	6119.5	5822.1	5576.5	5524.8	5477.4	5511.8	5554.9	5563.6	5524.8
12.5°	7011.5	6671.1	6072.1	5658.4	5503.2	5391.2	5421.3	5516.2	5606.7	5580.8	5611.0
15°	7179.6	6701.3	5856.6	5490.3	5296.4	5348.1	5455.8	5520.5	5671.3	5654.1	5684.2
17.5°	7343.4	6718.5	5645.4	5266.2	5184.3	5326.5	5408.4	5593.7	5641.1	5744.6	5783.3
20°	7679.5	6753.0	5430.0	5128.3	5102.4	5266.2	5408.4	5494.6	5598.0	5688.5	5688.5
22.5°	7851.9	6735.7	5287.7	4947.3	5029.2	5132.6	5261.9	5408.4	5408.4	5494.6	5498.9
25°	8067.4	6666.8	5063.7	4861.1	4921.4	5020.6	5167.1	5115.4	5171.4	5171.4	5240.3
27.5°	8313.0	6520.3	4869.7	4706.0	4826.6	4934.4	4955.9	4921.4	4856.8	4848.2	4822.3
30°	8511.2	6339.3	4727.5	4654.3	4753.4	4813.7	4744.8	4671.5	4559.4	4550.8	4490.5
32.5°	8782.7	6115.2	4550.8	4525.0	4637.0	4641.3	4619.8	4507.7	4344.0	4275.0	4206.1
35°	9239.6	5985.9	4417.2	4456.0	4490.5	4477.6	4438.8	4318.1	4154.4	4124.2	4098.3
37.5°	9575.7	5891.1	4279.3	4326.7	4356.9	4374.1	4257.8	4124.2	4128.5	4068.2	4050.9
40°	9954.9	5830.7	4167.3	4188.8	4193.1	4249.2	4106.9	4042.3	4072.5	4033.7	4059.5
42.5°	10441.9	5848.0	4050.9	4033.7	4115.6	4094.0	4025.1	3938.9	3956.1	3839.8	3857.0
45°	10700.5	5964.3	3982.0	3904.4	3994.9	3990.6	3900.1	3818.2	3714.8	3490.7	3499.3
47.5°	10872.9	5994.5	3818.2	3766.5	3861.3	3917.3	3813.9	3624.3	3477.8	3318.3	3279.5
50°	11049.5	6050.5	3740.6	3632.9	3671.7	3805.3	3676.0	3495.0	3352.8	3210.6	3232.1
52.5°	11204.7	6158.3	3589.8	3430.4	3499.3	3645.8	3576.9	3357.1	3202.0	3085.6	3051.1
55°	11894.2	6399.6	3335.5	3128.7	3292.5	3477.8	3439.0	3171.8	3003.7	2943.4	2934.8
56°	12001.9	6408.2	3202.0	3025.3	3176.1	3421.7	3374.3	3089.9	2939.1	2844.3	2848.6
57.5°	12019.2	6304.8	3012.3	2930.5	3059.7	3339.9	3279.5	3025.3	2818.4	2732.2	2706.4
60°	10575.5	4921.4	2775.3	2723.6	2874.4	3089.9	3068.4	2848.6	2615.9	2516.7	2564.1
62.5°	7209.8	3607.0	2590.0	2581.4	2659.0	2870.1	2814.1	2615.9	2421.9	2357.3	2327.1
65°	4197.4	2736.5	2409.0	2374.5	2439.2	2551.2	2590.0	2383.1	2180.6	2137.5	2124.6
67.5°	2478.0	2262.5	2176.3	2120.3	2098.7	2167.7	2197.8	2077.2	1874.6	1814.3	1866.0
70°	2072.9	2012.5	2016.8	1922.0	1870.3	1822.9	1797.1	1689.3	1521.3	1443.7	1422.1
72.5°	1788.4	1762.6	1745.3	1659.2	1611.8	1504.0	1392.0	1284.2	1159.3	1094.6	1098.9
75°	1366.1	1357.5	1366.1	1323.0	1241.1	1154.9	1051.5	913.6	818.8	736.9	754.2
77.5°	814.5	840.4	853.3	836.0	801.6	724.0	659.4	568.9	478.4	413.7	405.1
80°	560.2	581.8	603.3	581.8	547.3	491.3	422.3	353.4	288.7	254.3	245.6
82.5°	426.6	448.2	461.1	439.6	396.5	336.1	288.7	241.3	189.6	155.1	146.5
85°	155.1	176.7	172.4	206.9	224.1	215.5	185.3	142.2	107.7	77.6	73.3
87.5°	43.1	38.8	43.1	43.1	43.1	38.8	34.5	34.5	34.5	21.5	17.2
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)