

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: P531962

Luminaire Tested: **GALN-SA7B-735-U-T3-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P531962
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-735-U-T3-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3500K, 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: 31477 lumens
Efficiency: N/A
Efficacy: 110.1 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

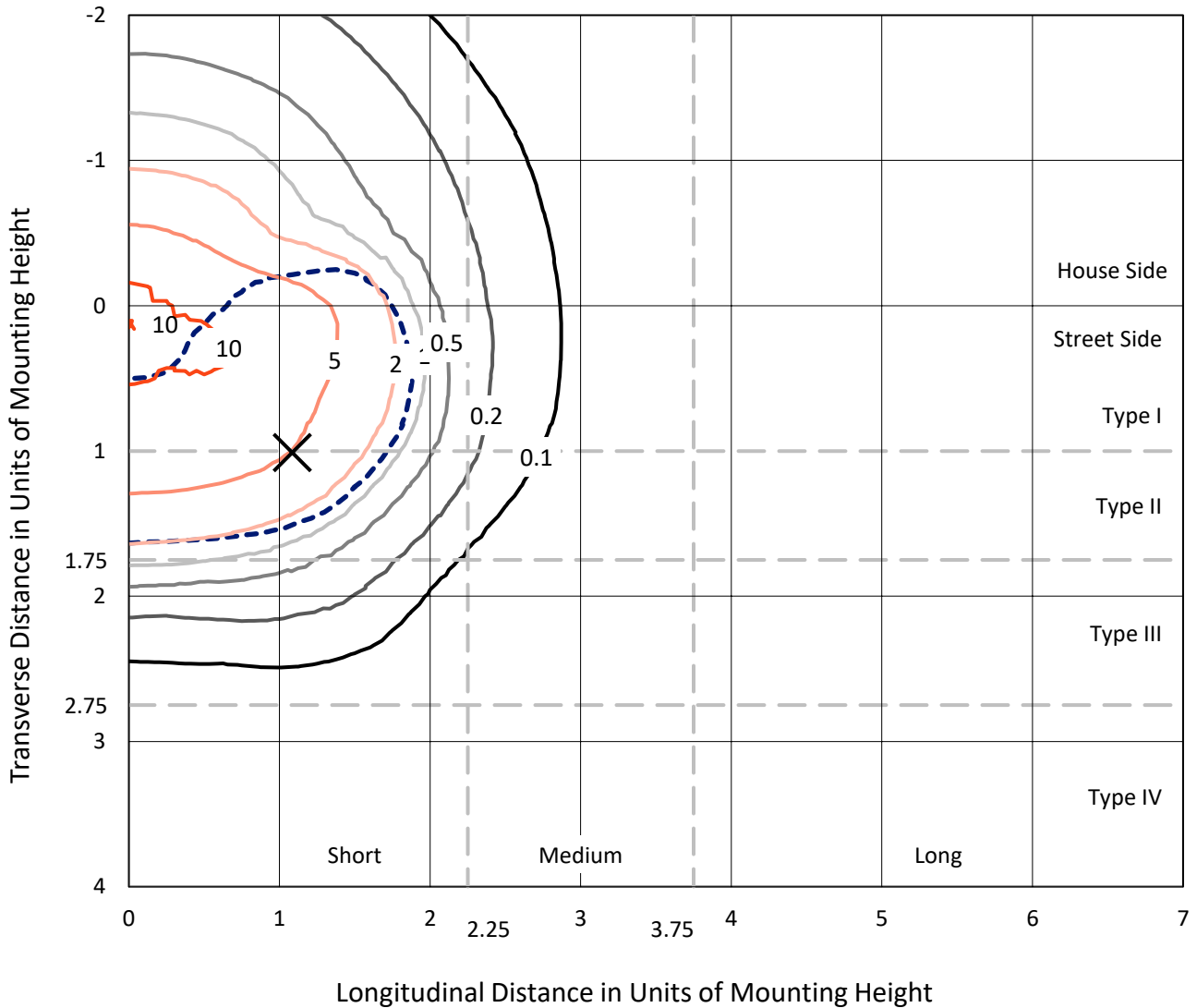
Input Watts (W): 286
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

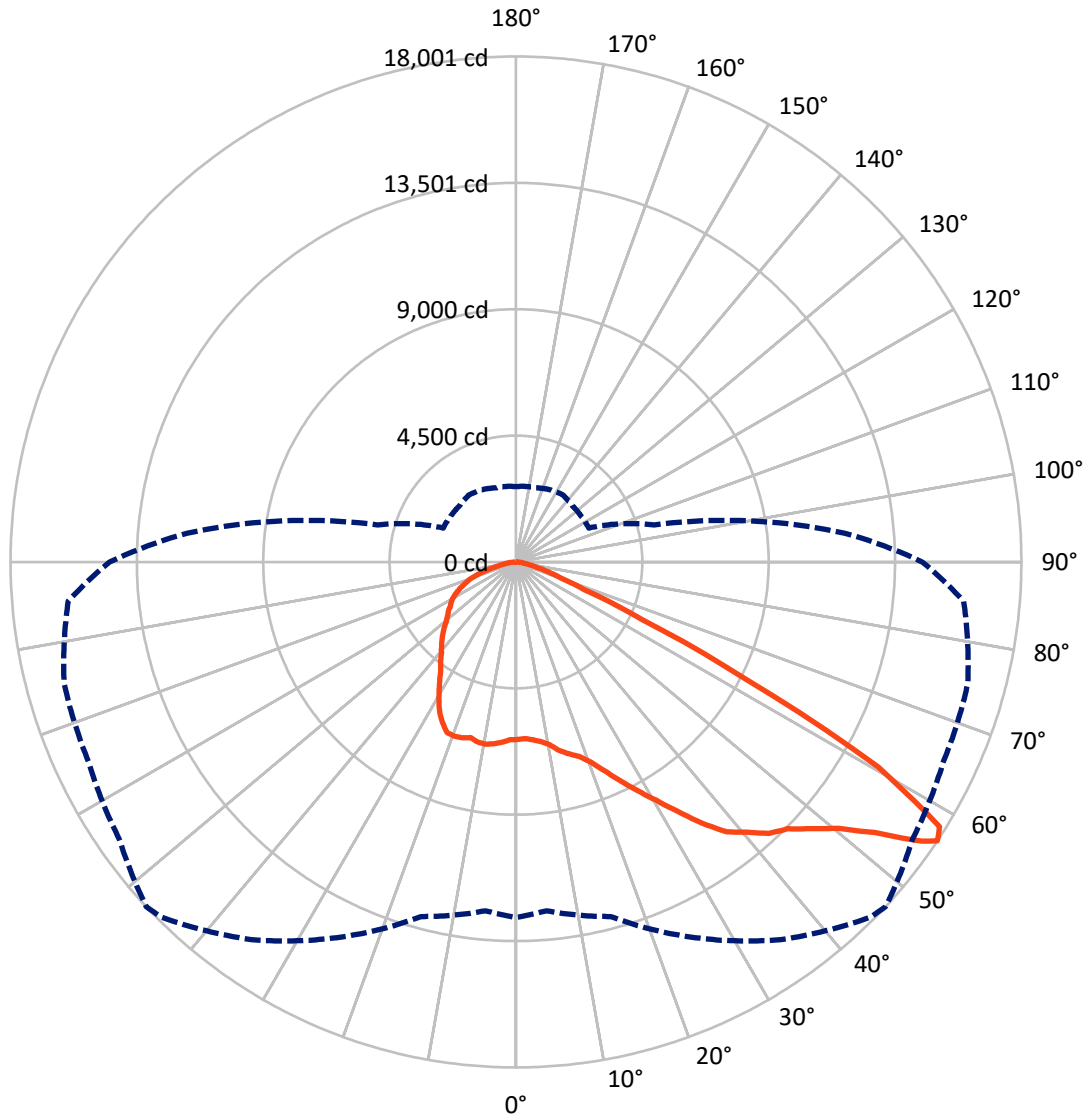
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.6 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	9974.7	0.0	9974.7
	% Fixture	31.7	0.0	31.7
Street Side	Lumens	21502.3	0.0	21502.3
	% Fixture	68.3	0.0	68.3
Total	Lumens	31477.0	0.0	31477.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	616.1	2.0
10°-20°	1943.4	6.2
20°-30°	3435.4	10.9
30°-40°	5159.9	16.4
40°-50°	7081.5	22.5
50°-60°	8436.7	26.8
60°-70°	3610.4	11.5
70°-80°	1021.7	3.2
80°-90°	171.9	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°	31477.0	100.0
0°-180°	31477.0	100.0

Coefficient of Utilization



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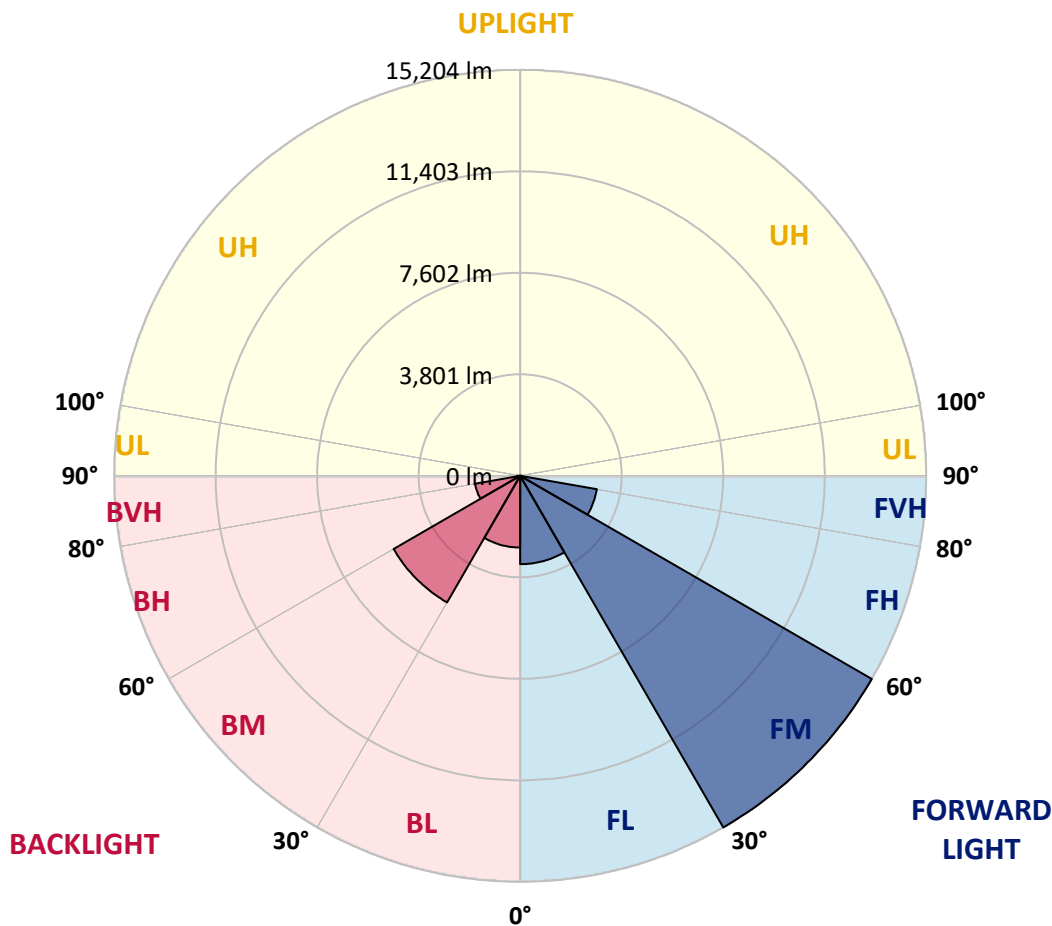
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3309.3	10.5			
FM (30°-60°)	15204.1	48.3			
FH (60°-80°)	2915.9	9.3			G2/5000
FVH (80°-90°)	73.0	0.2			G1/100
BL (0°-30°)	2685.6	8.5	B4/5000		
BM (30°-60°)	5473.9	17.4	B4/8500		
BH (60°-80°)	1716.2	5.5	B3/2500		G3/2500
BVH (80°-90°)	99.0	0.3			G1/100
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°	6322.8	6322.8	6322.8	6322.8	6322.8	6322.8	6322.8	6322.8	6322.8	6322.8	6322.8
2.5°	6298.7	6286.6	6278.6	6342.8	6318.8	6322.8	6298.7	6322.8	6338.8	6302.7	6354.9
5°	6286.6	6322.8	6290.7	6310.7	6362.9	6346.9	6362.9	6411.1	6399.0	6387.0	6370.9
7.5°	6399.0	6403.1	6427.1	6435.2	6451.2	6435.2	6459.3	6503.4	6491.4	6423.1	6431.2
10°	6559.6	6567.7	6571.7	6615.8	6643.9	6647.9	6619.8	6579.7	6575.7	6668.0	6603.8
12.5°	6744.3	6724.2	6772.4	6788.5	6820.6	6856.7	6892.8	6808.5	6860.7	6864.7	6788.5
15°	7013.3	7033.3	6977.1	6977.1	6989.2	6993.2	7093.5	7053.4	7045.4	7001.2	7033.3
17.5°	7414.7	7278.2	7274.2	7218.0	7210.0	7242.1	7278.2	7310.3	7418.7	7330.4	7157.8
20°	7707.8	7739.9	7623.5	7555.2	7567.3	7639.5	7603.4	7747.9	7824.2	7679.7	7511.1
22.5°	8225.6	8117.2	8145.3	7992.8	8004.8	8081.1	8077.1	8225.6	8269.8	8041.0	7796.1
25°	8574.9	8546.8	8570.9	8450.4	8466.5	8526.7	8623.1	8867.9	8795.7	8542.8	7976.7
27.5°	9084.7	9028.5	9008.4	8964.3	8948.2	9108.8	9221.2	9482.2	9430.0	9060.6	8297.9
30°	9606.6	9570.5	9590.5	9409.9	9474.1	9815.4	9847.5	10204.8	10180.7	9530.3	8655.2
32.5°	9967.9	9988.0	10024.1	9923.7	10208.8	10481.8	10590.1	10995.6	11015.7	10337.2	9345.7
35°	10550.0	10481.8	10501.8	10618.2	10750.7	11248.5	11425.2	11694.1	11862.7	11184.3	10008.0
37.5°	10915.3	10987.6	10903.3	11087.9	11433.2	12031.3	12191.9	12468.9	12645.5	12019.3	10911.3
40°	11485.4	11368.9	11429.2	11561.6	11914.9	12693.7	12649.6	12934.6	12990.8	12729.8	11754.3
42.5°	12099.6	12043.4	11959.1	12260.2	12557.2	13123.3	13211.6	13079.1	13364.1	13424.4	12958.7
45°	12834.2	12902.5	12914.5	12922.5	13183.5	13677.3	13556.8	13440.4	13769.6	14207.2	13705.4
47.5°	13516.7	13299.9	13456.5	13673.2	14042.6	14046.6	14187.1	13910.1	14259.4	14648.8	14379.8
50°	13745.5	13641.1	13849.9	14259.4	14829.4	14889.6	14905.7	14512.3	14692.9	15002.0	14612.6
52.5°	13657.2	13621.1	14155.0	14789.3	15624.3	15929.4	16009.7	15523.9	15624.3	15483.8	15126.5
55°	13235.7	13344.1	13882.0	15174.7	16455.3	17398.7	17551.2	16937.0	16298.7	16407.1	16013.7
56°	12657.6	12468.9	13071.1	14737.1	16419.1	17876.4	18000.8	17234.1	16800.5	16660.0	16005.6
57.5°	10738.7	10493.8	11284.6	13259.8	15507.9	17695.7	17788.1	17358.5	16716.2	16431.2	14837.4
60°	6286.6	6407.1	7410.7	9144.9	11963.1	14508.3	14817.4	15130.5	14700.9	13424.4	11043.8
62.5°	3034.9	2958.7	3677.2	5242.9	7290.3	9261.4	9169.0	10048.2	10529.9	9538.4	6973.1
65°	1589.7	1581.7	2007.2	2862.3	4006.4	4865.5	4949.8	5423.5	6085.9	4913.7	3540.8
67.5°	1168.2	1200.3	1413.1	2011.2	2577.3	2629.5	2617.4	2854.3	2918.5	2468.9	2175.8
70°	915.3	931.4	1087.9	1529.5	1918.9	1718.2	1682.1	1710.2	1898.8	1979.1	1882.8
72.5°	662.4	678.4	810.9	1031.7	1200.3	1172.2	1196.3	1352.9	1585.7	1670.0	1569.7
75°	441.6	453.6	525.9	630.3	710.6	766.8	810.9	991.6	1208.4	1256.5	1208.4
77.5°	305.1	317.1	365.3	445.6	453.6	489.8	505.8	590.1	722.6	782.8	750.7
80°	172.6	172.6	196.7	228.8	281.0	329.2	337.2	405.5	465.7	505.8	513.9
82.5°	80.3	84.3	104.4	140.5	184.7	228.8	236.9	281.0	325.2	365.3	377.4
85°	40.1	44.2	60.2	84.3	112.4	136.5	132.5	136.5	144.5	136.5	140.5
87.5°	12.0	12.0	16.1	20.1	16.1	20.1	20.1	24.1	28.1	32.1	36.1
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°	6322.8	6322.8	6322.8	6322.8	6322.8	6322.8	6322.8	6322.8	6322.8	6322.8	6322.8
2.5°	6358.9	6370.9	6290.7	6366.9	6338.8	6334.8	6391.0	6383.0	6403.1	6395.0	6346.9
5°	6362.9	6334.8	6419.1	6342.8	6379.0	6455.3	6403.1	6523.5	6463.3	6503.4	6415.1
7.5°	6487.4	6495.4	6479.3	6511.5	6495.4	6531.5	6503.4	6531.5	6483.4	6487.4	6567.7
10°	6595.8	6571.7	6599.8	6559.6	6587.7	6575.7	6511.5	6491.4	6507.4	6487.4	6539.6
12.5°	6796.5	6752.3	6732.2	6684.1	6652.0	6531.5	6431.2	6375.0	6451.2	6463.3	6439.2
15°	7001.2	7005.2	6912.9	6804.5	6603.8	6423.1	6447.2	6467.3	6467.3	6499.4	6439.2
17.5°	7129.7	7129.7	7045.4	6828.6	6623.9	6519.5	6495.4	6431.2	6375.0	6366.9	6362.9
20°	7354.5	7286.2	7093.5	6824.6	6615.8	6567.7	6387.0	6234.5	6118.0	6077.9	6073.9
22.5°	7611.4	7438.8	7169.8	6832.6	6603.8	6535.5	6198.3	5969.5	5760.7	5672.4	5684.5
25°	7848.3	7571.3	7214.0	6796.5	6559.6	6230.4	5853.1	5535.9	5319.2	5246.9	5210.8
27.5°	8012.9	7711.8	7214.0	6828.6	6395.0	5889.2	5503.8	5098.4	4909.7	4861.5	4869.5
30°	8233.7	7888.4	7338.4	6760.3	6065.8	5447.6	4986.0	4721.0	4608.6	4568.5	4596.6
32.5°	8751.5	8350.1	7511.1	6595.8	5676.4	5006.0	4632.7	4484.2	4319.6	4239.3	4211.2
35°	9313.5	8787.7	7679.7	6318.8	5238.9	4604.6	4371.7	4235.3	4038.5	3950.2	3966.3
37.5°	10108.4	9349.7	7691.7	5861.1	4765.2	4379.8	4167.0	3954.2	3793.7	3657.2	3617.0
40°	11180.3	10116.4	7663.6	5379.4	4383.8	4114.8	3958.3	3693.3	3512.7	3416.3	3436.4
42.5°	12123.7	11015.7	7547.2	4833.4	4038.5	3934.2	3757.5	3496.6	3320.0	3219.6	3211.6
45°	12918.5	11678.1	7326.4	4367.7	3749.5	3733.4	3528.7	3328.0	3187.5	3095.1	3135.3
47.5°	13653.2	12212.0	6993.2	3902.1	3484.6	3516.7	3320.0	3195.5	3107.2	3022.9	3018.9
50°	13918.1	12204.0	6700.1	3516.7	3271.8	3255.7	3247.7	3115.2	3022.9	2950.6	2982.7
52.5°	14359.7	12340.4	6383.0	3251.7	3079.1	3083.1	3111.2	3014.9	2910.5	2866.3	2906.5
55°	14994.0	12360.5	5684.5	2942.6	2918.5	2946.6	2946.6	2882.4	2794.1	2757.9	2737.9
56°	14476.1	11762.4	5098.4	2862.3	2838.2	2838.2	2914.5	2842.2	2733.8	2705.7	2681.7
57.5°	13352.1	10305.1	4267.4	2766.0	2729.8	2786.0	2826.2	2749.9	2649.5	2609.4	2633.5
60°	9209.2	6973.1	3207.6	2557.2	2557.2	2649.5	2681.7	2569.3	2525.1	2521.1	2489.0
62.5°	5375.4	4062.6	2509.0	2368.5	2376.6	2452.8	2476.9	2412.7	2356.5	2424.7	2456.8
65°	2850.3	2424.7	2151.8	2167.8	2171.8	2232.0	2336.4	2332.4	2328.4	2348.5	2352.5
67.5°	2063.4	2015.3	1955.0	1939.0	1947.0	1991.2	2095.5	2175.8	2171.8	2123.6	2087.5
70°	1838.6	1770.4	1734.2	1738.3	1706.1	1758.3	1842.6	1894.8	1802.5	1746.3	1722.2
72.5°	1529.5	1509.4	1485.3	1489.4	1425.1	1413.1	1316.7	1316.7	1292.7	1276.6	1304.7
75°	1168.2	1160.2	1172.2	1152.1	1083.9	1011.6	955.4	903.3	823.0	790.8	774.8
77.5°	738.7	762.7	790.8	746.7	718.6	666.4	610.2	558.0	493.8	457.6	457.6
80°	501.8	521.9	542.0	533.9	501.8	453.6	409.5	353.3	309.1	281.0	277.0
82.5°	381.4	397.4	425.5	393.4	361.3	321.2	285.0	244.9	204.7	172.6	172.6
85°	136.5	156.6	172.6	188.7	200.7	204.7	176.6	144.5	116.4	92.3	88.3
87.5°	36.1	40.1	44.2	40.1	40.1	40.1	44.2	40.1	36.1	28.1	28.1
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)