

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: P531958

Luminaire Tested: **GALN-SA7B-735-U-T2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P531958
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-735-U-T2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3500K, 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: 30969 lumens
Efficiency: N/A
Efficacy: 108.3 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

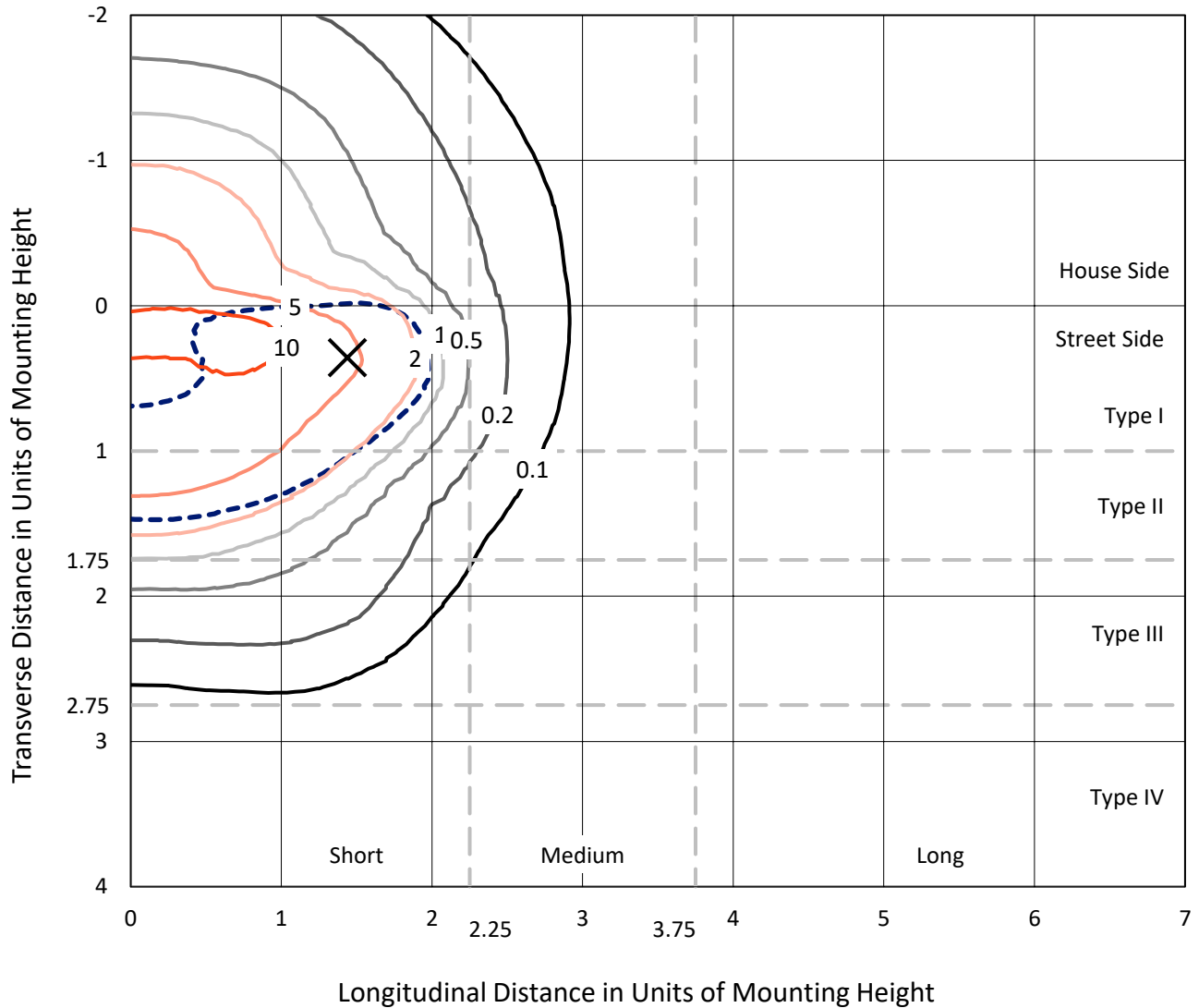
Input Watts (W): 286
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

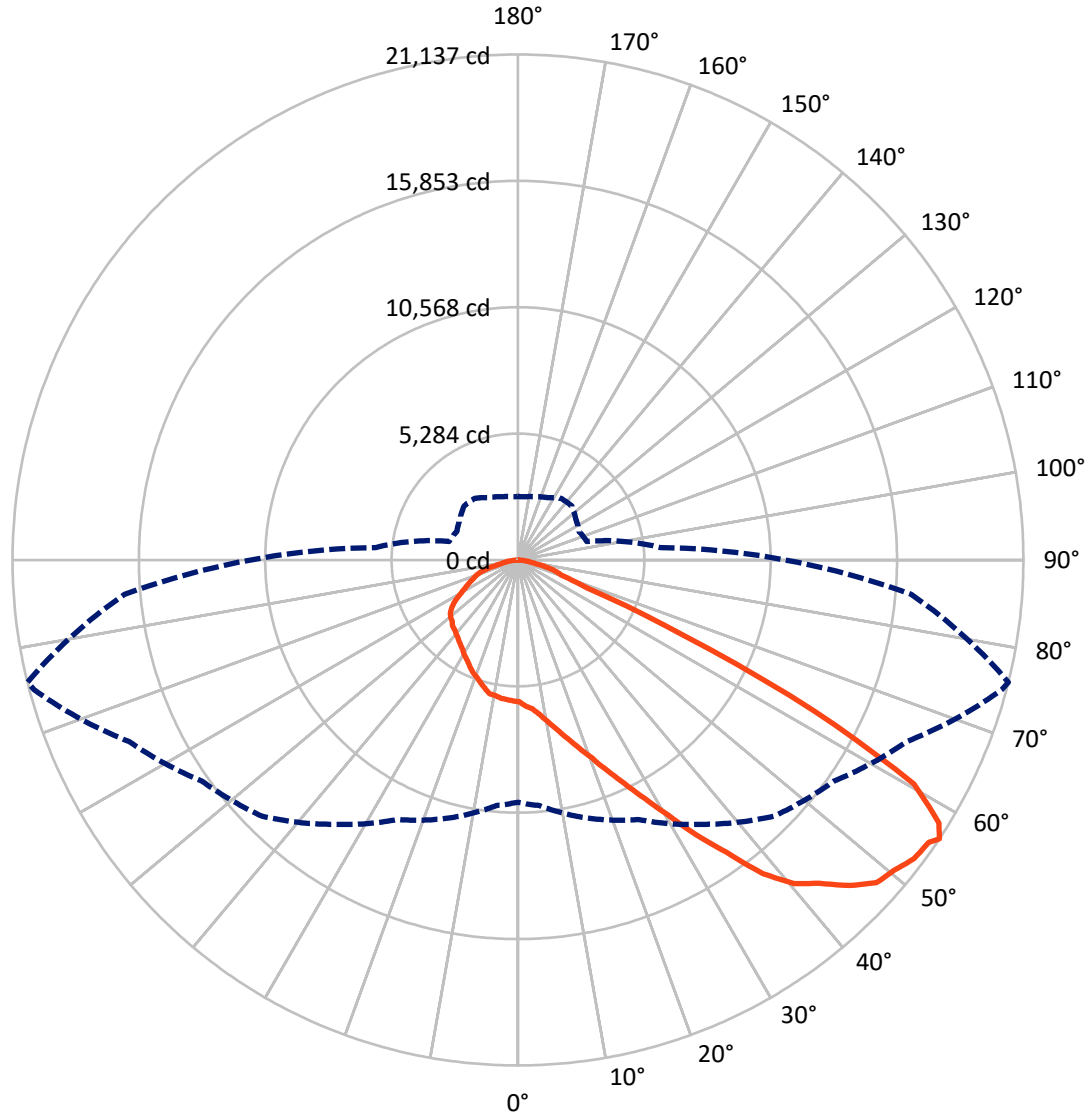
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.2 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	8326.6	0.0	8326.6
	% Fixture	26.9	0.0	26.9
Street Side	Lumens	22642.4	0.0	22642.4
	% Fixture	73.1	0.0	73.1
Total	Lumens	30969.0	0.0	30969.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	587.6	1.9
10°-20°	1845.9	6.0
20°-30°	3228.3	10.4
30°-40°	5054.6	16.3
40°-50°	7353.0	23.7
50°-60°	8081.4	26.1
60°-70°	3607.2	11.6
70°-80°	1041.9	3.4
80°-90°	169.0	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°	30969.0	100.0
0°-180°	30969.0	100.0

Coefficient of Utilization



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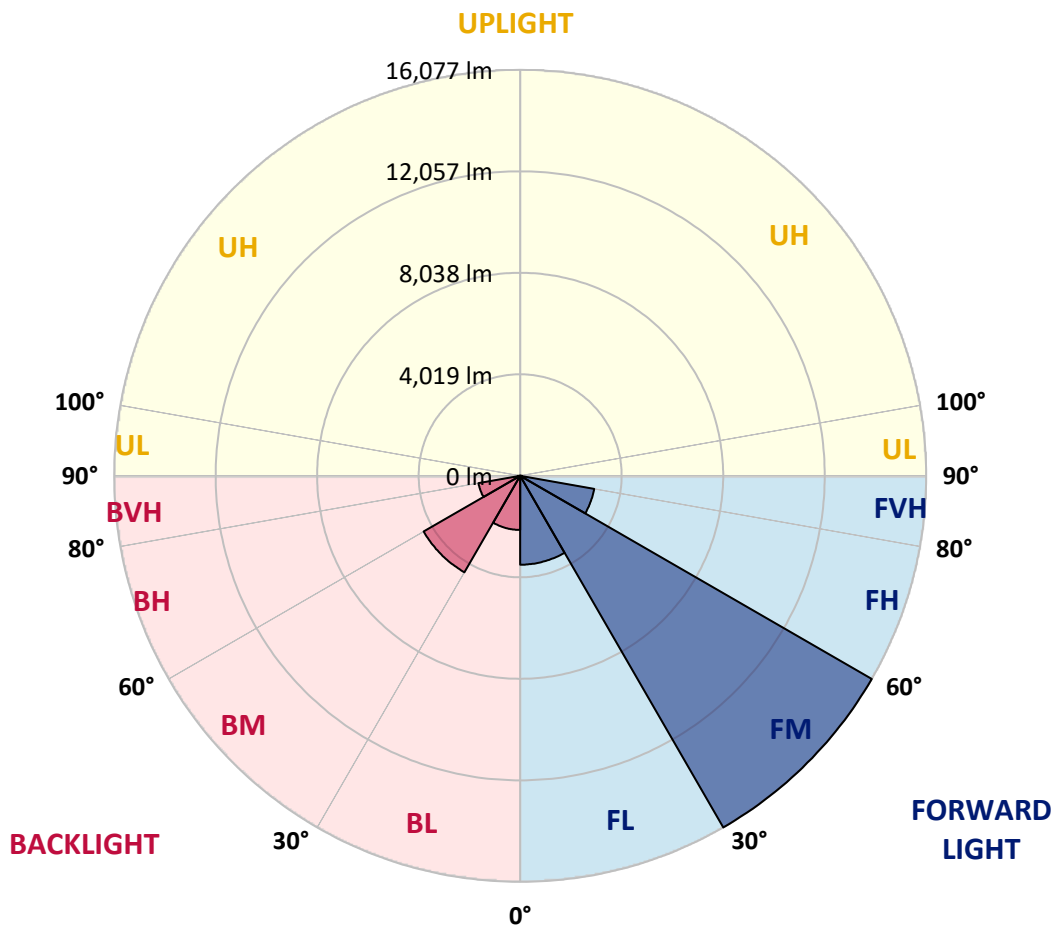
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3519.3	11.4			
FM (30°-60°)	16076.6	51.9			
FH (60°-80°)	2973.8	9.6			G2/5000
FVH (80°-90°)	72.7	0.2			G1/100
BL (0°-30°)	2142.6	6.9	B3/2500		
BM (30°-60°)	4412.4	14.2	B3/5000		
BH (60°-80°)	1675.3	5.4	B3/2500		G3/2500
BVH (80°-90°)	96.3	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°	76°	85°
0°	5925.5	5925.5	5925.5	5925.5	5925.5	5925.5	5925.5	5925.5	5925.5	5925.5	5925.5
2.5°	6527.7	6423.3	6415.3	6387.2	6403.3	6331.0	6254.7	6154.4	6050.0	6114.2	5961.7
5°	6985.4	6844.9	6901.1	6804.7	6816.8	6720.4	6563.8	6447.4	6318.9	6242.7	6134.3
7.5°	7146.0	7158.0	7198.1	7182.1	7101.8	7101.8	6997.4	6792.7	6567.9	6523.7	6343.0
10°	7362.7	7366.8	7322.6	7334.6	7447.0	7394.9	7302.5	7214.2	6925.2	6873.0	6551.8
12.5°	7439.0	7366.8	7439.0	7503.3	7635.7	7708.0	7687.9	7623.7	7314.6	7278.4	6808.7
15°	7451.1	7406.9	7467.1	7611.6	7728.1	8033.2	8185.7	8141.6	7732.1	7736.1	7097.8
17.5°	7394.9	7455.1	7479.2	7603.6	7872.6	8157.6	8599.2	8659.4	8322.2	8270.0	7463.1
20°	7471.1	7427.0	7459.1	7571.5	7928.8	8374.4	8952.5	9350.0	8876.2	8840.1	7840.5
22.5°	7764.2	7704.0	7696.0	7768.2	8025.1	8486.8	9325.9	10040.5	9550.7	9570.8	8310.2
25°	7993.0	8025.1	7997.0	7993.0	8153.6	8655.4	9819.7	10863.5	10466.0	10349.6	8864.2
27.5°	8386.5	8462.7	8406.5	8482.8	8446.7	8908.4	10172.9	11774.8	11453.6	11297.0	9366.0
30°	8932.4	8972.6	8920.4	8920.4	8812.0	9261.6	10494.1	12726.2	12593.7	12381.0	9956.2
32.5°	9651.1	9711.3	9606.9	9546.7	9530.6	9787.5	11072.2	13665.6	13890.4	13709.8	10739.0
35°	10602.5	10566.4	10441.9	10385.7	10168.9	10594.5	11931.3	14745.6	15335.7	15014.5	11686.4
37.5°	11441.6	11385.3	11377.3	11064.2	11116.4	11465.6	12662.0	15564.5	16736.8	16644.4	12686.1
40°	12224.4	12276.6	12360.9	12184.3	12104.0	12489.4	13513.1	16190.8	17824.7	17788.6	13456.9
42.5°	13063.4	13015.3	13163.8	13015.3	12894.8	13440.8	14436.4	16624.4	18780.2	18483.1	14263.8
45°	14279.9	14127.3	14179.5	14191.5	14103.2	14303.9	14817.8	16937.5	19450.6	19418.5	14853.9
47.5°	15295.6	15299.6	15211.2	15143.0	14874.0	15074.7	15243.4	17134.2	20221.4	20169.3	15082.8
50°	15672.9	15620.7	15877.7	16026.2	16042.3	15632.8	15576.6	17242.6	20626.9	20398.1	15311.6
52.5°	14316.0	14364.2	14769.6	15652.8	16162.7	16206.9	15966.0	17467.4	20791.5	20743.3	15496.3
55°	11521.8	11754.7	12421.1	13440.8	14649.2	15978.0	16387.5	17700.3	20879.8	20839.7	16315.3
56°	10128.8	10309.4	11176.6	11975.5	13493.0	15147.0	16122.6	17949.2	20948.1	21136.8	16508.0
57.5°	8153.6	8362.4	8984.6	9891.9	11682.4	13565.3	15391.9	17644.1	20683.1	20755.4	16648.5
60°	5098.5	5118.6	5865.3	6463.5	7724.1	9562.7	11746.7	15351.8	19141.5	19037.1	14954.3
62.5°	3344.1	3348.2	4026.6	4516.4	5090.5	5512.0	6913.1	10181.0	14123.3	13938.6	10646.7
65°	2348.5	2400.7	2926.6	3581.0	3813.9	3593.0	3548.9	5367.5	7888.7	7623.7	5720.8
67.5°	1718.2	1722.3	2187.9	2890.5	3227.7	2733.9	2220.1	2621.5	3123.3	3115.3	2649.6
70°	1136.1	1184.3	1541.6	2159.8	2545.2	2196.0	1814.6	1874.8	1987.2	1987.2	1971.2
72.5°	662.4	706.6	943.4	1369.0	1429.2	1373.0	1437.2	1605.8	1678.1	1674.1	1654.0
75°	377.4	397.4	449.6	570.1	710.6	839.0	1055.8	1216.4	1288.7	1332.8	1280.7
77.5°	220.8	232.8	265.0	325.2	369.3	453.6	574.1	686.5	782.8	770.8	778.8
80°	116.4	116.4	148.5	192.7	256.9	321.2	381.4	445.6	497.8	509.9	521.9
82.5°	68.2	72.3	96.3	140.5	184.7	228.8	293.1	337.2	385.4	389.4	397.4
85°	36.1	40.1	60.2	92.3	124.5	140.5	144.5	136.5	148.5	140.5	160.6
87.5°	12.0	12.0	20.1	16.1	16.1	20.1	24.1	24.1	32.1	32.1	32.1
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°	5925.5	5925.5	5925.5	5925.5	5925.5	5925.5	5925.5	5925.5	5925.5	5925.5	5925.5
2.5°	5957.6	5957.6	5889.4	5760.9	5740.8	5688.7	5640.5	5636.5	5600.3	5568.2	5552.2
5°	6070.0	5945.6	5845.2	5728.8	5592.3	5528.1	5455.8	5375.5	5343.4	5375.5	5371.5
7.5°	6198.5	6094.1	5793.0	5576.3	5419.7	5355.5	5275.2	5190.9	5198.9	5198.9	5142.7
10°	6323.0	6182.5	5700.7	5423.7	5194.9	5146.7	5102.5	5134.6	5174.8	5182.8	5146.7
12.5°	6531.7	6214.6	5656.5	5271.1	5126.6	5022.2	5050.3	5138.7	5223.0	5198.9	5227.0
15°	6688.3	6242.7	5455.8	5114.6	4933.9	4982.1	5082.5	5142.7	5283.2	5267.1	5295.2
17.5°	6840.8	6258.7	5259.1	4905.8	4829.5	4962.0	5038.3	5210.9	5255.1	5351.4	5387.6
20°	7154.0	6290.8	5058.4	4777.4	4753.3	4905.8	5038.3	5118.6	5214.9	5299.2	5299.2
22.5°	7314.6	6274.8	4925.9	4608.7	4685.0	4781.4	4901.8	5038.3	5038.3	5118.6	5122.6
25°	7515.3	6210.6	4717.1	4528.4	4584.7	4677.0	4813.5	4765.3	4817.5	4817.5	4881.7
27.5°	7744.1	6074.1	4536.5	4383.9	4496.3	4596.7	4616.8	4584.7	4524.4	4516.4	4492.3
30°	7928.8	5905.4	4404.0	4335.7	4428.1	4484.3	4420.1	4351.8	4247.4	4239.4	4183.2
32.5°	8181.7	5696.7	4239.4	4215.3	4319.7	4323.7	4303.6	4199.3	4046.7	3982.5	3918.2
35°	8607.3	5576.3	4114.9	4151.1	4183.2	4171.1	4135.0	4022.6	3870.1	3842.0	3817.9
37.5°	8920.4	5487.9	3986.5	4030.6	4058.7	4074.8	3966.4	3842.0	3846.0	3789.8	3773.7
40°	9273.7	5431.7	3882.1	3902.2	3906.2	3958.4	3825.9	3765.7	3793.8	3757.6	3781.7
42.5°	9727.3	5447.8	3773.7	3757.6	3833.9	3813.9	3749.6	3669.3	3685.4	3577.0	3593.0
45°	9968.2	5556.2	3709.5	3637.2	3721.5	3717.5	3633.2	3556.9	3460.6	3251.8	3259.8
47.5°	10128.8	5584.3	3556.9	3508.7	3597.1	3649.3	3552.9	3376.3	3239.8	3091.2	3055.1
50°	10293.4	5636.5	3484.7	3384.3	3420.4	3544.9	3424.4	3255.8	3123.3	2990.9	3010.9
52.5°	10437.9	5736.8	3344.1	3195.6	3259.8	3396.3	3332.1	3127.4	2982.8	2874.4	2842.3
55°	11080.2	5961.7	3107.3	2914.6	3067.1	3239.8	3203.6	2954.7	2798.2	2742.0	2733.9
56°	11180.6	5969.7	2982.8	2818.2	2958.7	3187.6	3143.4	2878.5	2737.9	2649.6	2653.6
57.5°	11196.7	5873.3	2806.2	2729.9	2850.4	3111.3	3055.1	2818.2	2625.5	2545.2	2521.2
60°	9851.8	4584.7	2585.4	2537.2	2677.7	2878.5	2858.4	2653.6	2436.9	2344.5	2388.7
62.5°	6716.4	3360.2	2412.8	2404.7	2477.0	2673.7	2621.5	2436.9	2256.2	2196.0	2167.9
65°	3910.2	2549.3	2244.2	2212.0	2272.3	2376.6	2412.8	2220.1	2031.4	1991.2	1979.2
67.5°	2308.4	2107.7	2027.4	1975.2	1955.1	2019.3	2047.4	1935.0	1746.3	1690.1	1738.3
70°	1931.0	1874.8	1878.8	1790.5	1742.3	1698.2	1674.1	1573.7	1417.1	1344.9	1324.8
72.5°	1666.1	1642.0	1625.9	1545.6	1501.5	1401.1	1296.7	1196.3	1079.9	1019.7	1023.7
75°	1272.6	1264.6	1272.6	1232.5	1156.2	1075.9	979.6	851.1	762.8	686.5	702.6
77.5°	758.8	782.8	794.9	778.8	746.7	674.4	614.2	529.9	445.6	385.4	377.4
80°	521.9	542.0	562.0	542.0	509.9	457.7	393.4	329.2	269.0	236.9	228.8
82.5°	397.4	417.5	429.6	409.5	369.3	313.1	269.0	224.8	176.6	144.5	136.5
85°	144.5	164.6	160.6	192.7	208.8	200.7	172.6	132.5	100.4	72.3	68.2
87.5°	40.1	36.1	40.1	40.1	40.1	36.1	32.1	32.1	32.1	20.1	16.1
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)