

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: P531782

Luminaire Tested: **GALN-SA7A-750-U-T3R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P531782
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-12)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA7A-750-U-T3R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 5000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27806 lumens
Efficiency: N/A
Efficacy: 129.3 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

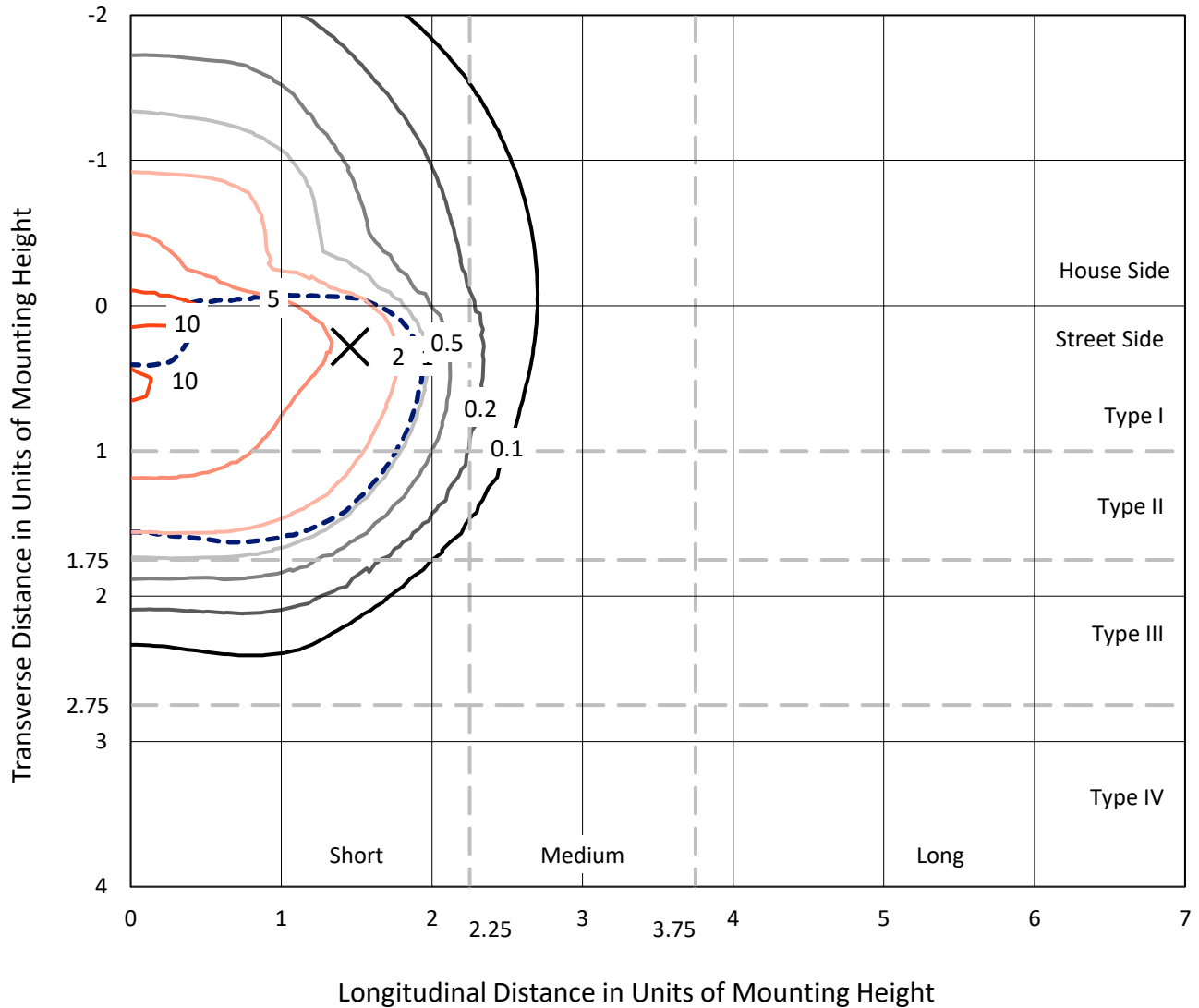
Input Watts (W): 215
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

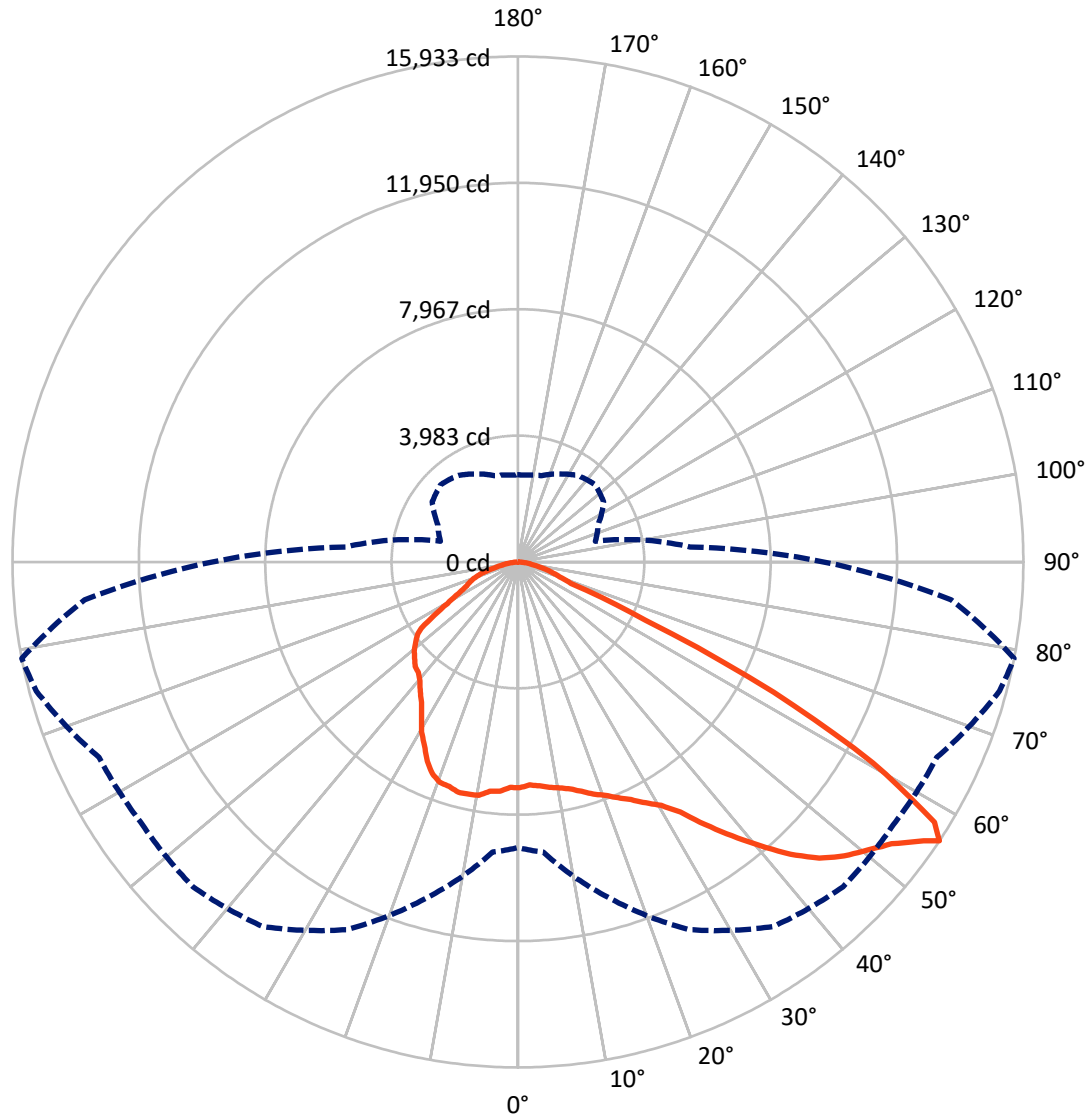
✕ Max cd
 - - - 1/2 Max cd



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 79-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8211.7	0.0	8211.7
	% Fixture	29.5	0.0	29.5
Street Side	Lumens	19594.3	0.0	19594.3
	% Fixture	70.5	0.0	70.5
Total	Lumens	27806.0	0.0	27806.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	646.8	2.3
10°-20°	1770.2	6.4
20°-30°	3028.5	10.9
30°-40°	4641.6	16.7
40°-50°	6273.0	22.6
50°-60°	7204.8	25.9
60°-70°	3284.2	11.8
70°-80°	809.7	2.9
80°-90°	147.2	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°	27806.0	100.0
0°-180°	27806.0	100.0

Coefficient of Utilization



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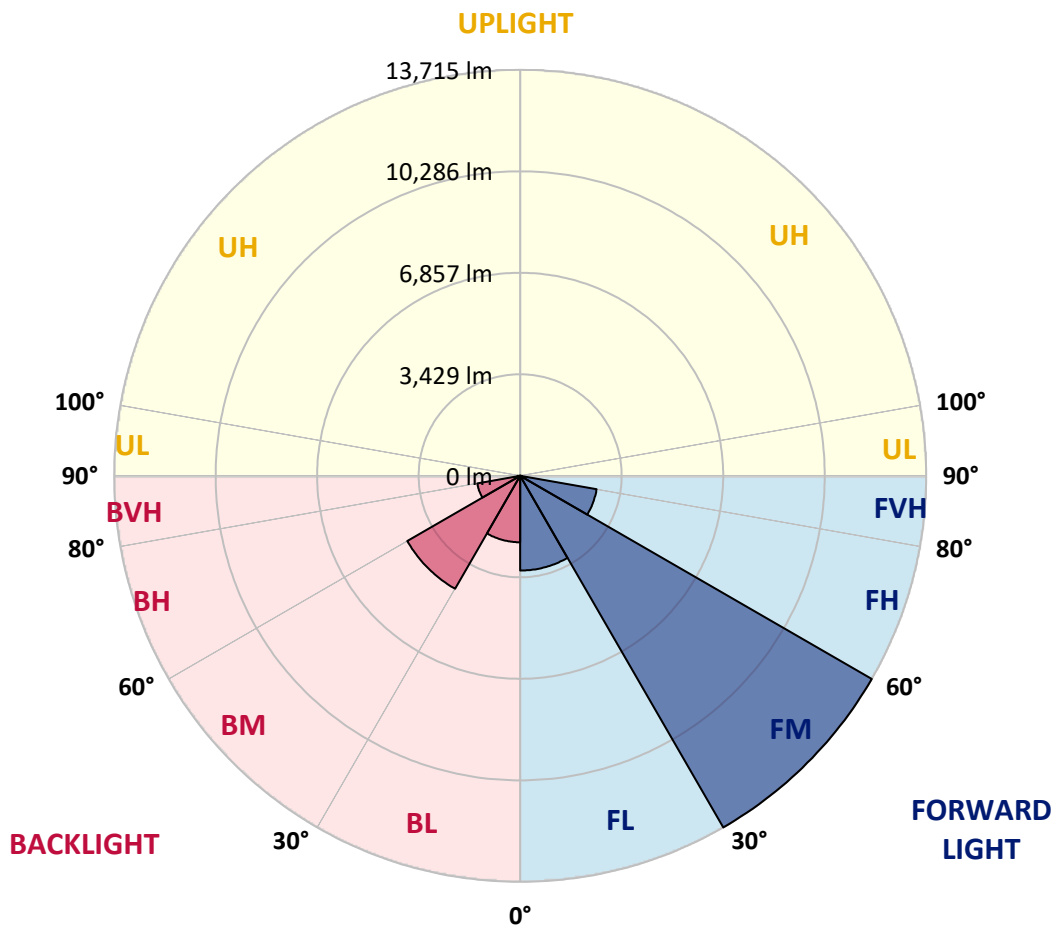
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3199.3	11.5			
FM (30°-60°)	13714.7	49.3			
FH (60°-80°)	2621.5	9.4			G2/5000
FVH (80°-90°)	58.8	0.2			G1/100
BL (0°-30°)	2246.3	8.1	B3/2500		
BM (30°-60°)	4404.7	15.8	B3/5000		
BH (60°-80°)	1472.4	5.3	B3/2500		G3/2500
BVH (80°-90°)	88.4	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°	79°	85°
0°	7114.5	7114.5	7114.5	7114.5	7114.5	7114.5	7114.5	7114.5	7114.5	7114.5	7114.5
2.5°	6768.1	6750.8	6792.3	6823.5	6861.6	6910.1	6934.3	6948.2	7069.4	7038.3	7131.8
5°	6622.6	6577.6	6608.8	6633.0	6698.8	6757.7	6823.5	6927.4	7038.3	7086.7	7201.0
7.5°	6494.5	6470.2	6463.3	6480.6	6570.7	6646.9	6761.2	6913.6	7093.7	7173.3	7239.1
10°	6283.2	6248.5	6300.5	6414.8	6439.0	6598.4	6730.0	6948.2	7104.1	7242.6	7436.6
12.5°	6189.6	6155.0	6165.4	6231.2	6400.9	6553.3	6709.2	6955.1	7284.2	7339.6	7599.4
15°	6338.6	6303.9	6314.3	6297.0	6459.8	6539.5	6785.4	7093.7	7408.9	7502.4	7779.5
17.5°	6678.0	6681.5	6636.5	6598.4	6560.3	6730.0	6899.7	7176.8	7457.4	7692.9	7900.7
20°	7325.7	7211.4	7121.4	6906.6	6847.7	6920.5	7135.2	7401.9	7654.8	7848.8	8084.3
22.5°	7824.5	7834.9	7706.7	7353.5	7225.3	7256.5	7440.0	7658.3	7935.4	8073.9	8344.1
25°	8548.4	8475.7	8337.1	8056.6	7769.1	7793.3	7928.4	8125.9	8202.1	8299.0	8593.5
27.5°	9210.0	9230.8	8957.1	8693.9	8337.1	8267.9	8510.3	8545.0	8416.8	8600.4	8700.8
30°	9882.0	9864.6	9684.5	9376.3	9026.4	9040.3	9147.7	8977.9	8801.3	8901.7	8971.0
32.5°	10578.2	10380.7	10373.8	10096.7	9830.0	9701.8	9570.2	9653.4	9379.7	9400.5	9334.7
35°	11135.8	11163.5	11004.2	10806.8	10675.1	10450.0	10089.8	10238.7	10186.8	10162.5	9878.5
37.5°	11541.1	11433.7	11513.4	11447.6	11322.9	11042.3	10668.2	10810.2	10834.5	10952.2	10623.2
40°	11873.6	11828.6	12039.8	12074.5	11987.9	11381.7	10709.8	11132.4	11496.0	11752.4	11361.0
42.5°	12032.9	12129.9	12351.6	12618.3	12424.3	11776.6	10924.5	11378.3	12188.8	12594.0	12060.6
45°	12247.7	12123.0	12452.0	12940.4	12943.9	12109.1	11132.4	11710.8	12729.1	13318.0	12538.6
47.5°	12029.5	12091.8	12431.2	13051.2	13210.6	12459.0	11693.5	12181.9	13324.9	13847.9	12982.0
50°	11541.1	11665.8	12285.8	12930.0	13411.5	12829.6	12337.7	12691.0	13875.6	14273.9	13054.7
52.5°	11031.9	11101.2	12071.0	13023.5	13501.5	13307.6	13200.2	13394.2	14547.6	14755.4	13144.8
55°	9646.4	9975.5	11361.0	12982.0	13941.4	14170.0	14086.9	14370.9	15309.6	15517.4	13636.6
56°	9005.6	9178.8	10934.9	12788.0	14028.0	14485.2	14443.7	14571.8	15714.8	15933.1	13712.8
57.5°	7821.1	7834.9	9324.3	11929.0	13702.4	14578.7	14537.2	14637.6	15635.2	15486.2	13044.3
60°	4894.2	5109.0	6345.5	9175.4	11651.9	13525.8	13761.3	12954.3	13182.9	12867.7	10148.7
62.5°	2535.4	2504.3	3325.2	5365.3	7734.5	9684.5	9902.7	9864.6	9511.3	9050.7	6629.5
65°	1264.3	1271.2	1738.8	2656.7	3962.5	5070.9	5680.5	5746.3	4807.6	4423.2	3145.0
67.5°	917.9	952.5	1250.4	1624.5	1866.9	2088.6	2559.7	2511.2	1901.6	1808.1	1676.4
70°	713.5	744.7	1014.9	1240.0	1125.7	1125.7	1226.2	1267.7	1354.3	1392.4	1437.4
72.5°	519.6	543.8	775.9	855.5	737.8	793.2	917.9	1014.9	1104.9	1118.8	1170.7
75°	356.8	377.5	509.2	471.1	443.4	547.3	672.0	762.0	827.8	862.5	893.6
77.5°	232.1	239.0	291.0	245.9	284.0	353.3	436.4	512.6	578.4	606.1	613.1
80°	103.9	114.3	124.7	155.9	197.4	252.9	311.7	374.1	415.6	426.0	446.8
82.5°	58.9	58.9	76.2	110.8	145.5	183.6	225.1	270.2	318.7	329.1	325.6
85°	31.2	31.2	45.0	65.8	90.1	107.4	103.9	107.4	114.3	131.6	128.2
87.5°	10.4	10.4	13.9	13.9	17.3	20.8	17.3	24.2	31.2	31.2	31.2
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°	7114.5	7114.5	7114.5	7114.5	7114.5	7114.5	7114.5	7114.5	7114.5	7114.5	7114.5
2.5°	7104.1	7135.2	7093.7	7183.7	7183.7	7166.4	7079.8	7107.5	7128.3	7128.3	7145.6
5°	7239.1	7228.8	7256.5	7149.1	7083.3	7059.0	6917.0	6847.7	6788.9	6785.4	6733.4
7.5°	7315.3	7287.6	7277.2	7197.6	6906.6	6730.0	6425.2	6248.5	6210.4	6075.3	6127.3
10°	7436.6	7488.5	7436.6	7003.6	6598.4	6193.1	5895.2	5621.6	5514.2	5427.6	5375.7
12.5°	7686.0	7661.7	7360.4	6775.0	6207.0	5725.5	5282.2	4994.7	4887.3	4811.1	4804.2
15°	7897.3	7776.0	7315.3	6414.8	5597.4	5084.7	4721.0	4516.7	4468.2	4475.1	4506.3
17.5°	7970.0	7886.9	7079.8	6040.7	5143.6	4540.9	4371.2	4340.0	4385.1	4437.0	4450.9
20°	8084.3	7952.7	6982.8	5531.5	4582.5	4201.5	4191.1	4301.9	4385.1	4461.3	4471.6
22.5°	8323.3	7990.8	6667.6	5050.1	4198.0	4101.0	4201.5	4295.0	4423.2	4485.5	4430.1
25°	8392.6	7907.6	6224.3	4471.6	3955.6	4038.7	4146.1	4274.2	4364.3	4398.9	4423.2
27.5°	8451.4	7779.5	5625.1	4087.2	3879.4	4035.2	4146.1	4253.4	4301.9	4333.1	4360.8
30°	8617.7	7741.4	5105.5	3830.9	3830.9	3965.9	4108.0	4135.7	4201.5	4239.6	4288.1
32.5°	8700.8	7478.1	4572.1	3668.1	3782.4	4000.6	4011.0	4062.9	4066.4	4097.6	4045.6
35°	8919.0	7291.1	4076.8	3550.3	3803.2	3965.9	4017.9	3986.7	3817.0	3733.9	3751.2
37.5°	9078.4	7197.6	3720.0	3536.4	3806.6	4004.0	4031.8	3796.2	3619.6	3481.0	3515.7
40°	9507.9	6965.5	3449.9	3512.2	3837.8	4045.6	3969.4	3713.1	3394.4	3252.4	3228.2
42.5°	9836.9	6799.3	3280.1	3484.5	3862.0	4104.5	3938.2	3546.8	3221.2	3089.6	3124.3
45°	10217.9	6761.2	3190.1	3491.4	3903.6	4135.7	3900.1	3418.7	3072.3	3020.4	3010.0
47.5°	10353.0	6487.5	3093.1	3432.5	3893.2	4125.3	3772.0	3321.7	3016.9	3023.8	3051.5
50°	10127.9	6207.0	3020.4	3311.3	3823.9	4031.8	3571.1	3193.5	2985.7	3072.3	3120.8
52.5°	9840.4	5919.5	2871.4	3148.5	3681.9	3886.3	3477.6	3186.6	2954.5	2926.8	2937.2
55°	9927.0	5683.9	2663.6	2926.8	3453.3	3616.1	3373.7	3120.8	2878.3	2774.4	2809.1
56°	9646.4	5441.5	2528.5	2788.3	3297.4	3442.9	3321.7	3061.9	2816.0	2746.7	2746.7
57.5°	8853.2	4627.5	2351.9	2566.6	2968.4	3141.6	3221.2	3027.3	2746.7	2625.5	2629.0
60°	6529.1	3290.5	2109.4	2261.8	2459.2	2597.8	2968.4	2930.3	2573.5	2490.4	2459.2
62.5°	4024.8	2403.8	1936.2	1995.1	2095.5	2209.8	2590.9	2653.2	2390.0	2299.9	2279.1
65°	2254.9	1839.2	1804.6	1828.8	1877.3	1936.2	2151.0	2289.5	2109.4	1970.8	1963.9
67.5°	1648.7	1645.3	1673.0	1693.8	1714.5	1714.5	1766.5	1821.9	1797.7	1686.8	1676.4
70°	1465.1	1475.5	1496.3	1499.8	1506.7	1482.5	1440.9	1423.6	1451.3	1382.0	1368.2
72.5°	1208.8	1243.5	1267.7	1271.2	1233.1	1201.9	1146.5	1087.6	1066.8	1053.0	1049.5
75°	928.3	952.5	962.9	959.4	945.6	900.6	834.8	775.9	737.8	696.2	717.0
77.5°	626.9	661.6	678.9	678.9	658.1	588.8	557.7	512.6	474.5	429.5	436.4
80°	439.9	464.1	491.8	488.4	453.7	419.1	374.1	332.5	301.3	266.7	263.2
82.5°	329.1	342.9	356.8	349.8	325.6	291.0	259.8	221.7	187.0	162.8	162.8
85°	117.8	128.2	155.9	162.8	176.6	176.6	148.9	124.7	100.4	83.1	83.1
87.5°	34.6	34.6	38.1	38.1	34.6	38.1	31.2	34.6	38.1	24.2	24.2
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)