

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: P531594

Luminaire Tested: **GALN-SA6D-827-U-T2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P531594
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-SA6D-827-U-T2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 2700K, 1200mA 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: 28286 lumens
Efficiency: N/A
Efficacy: 76.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

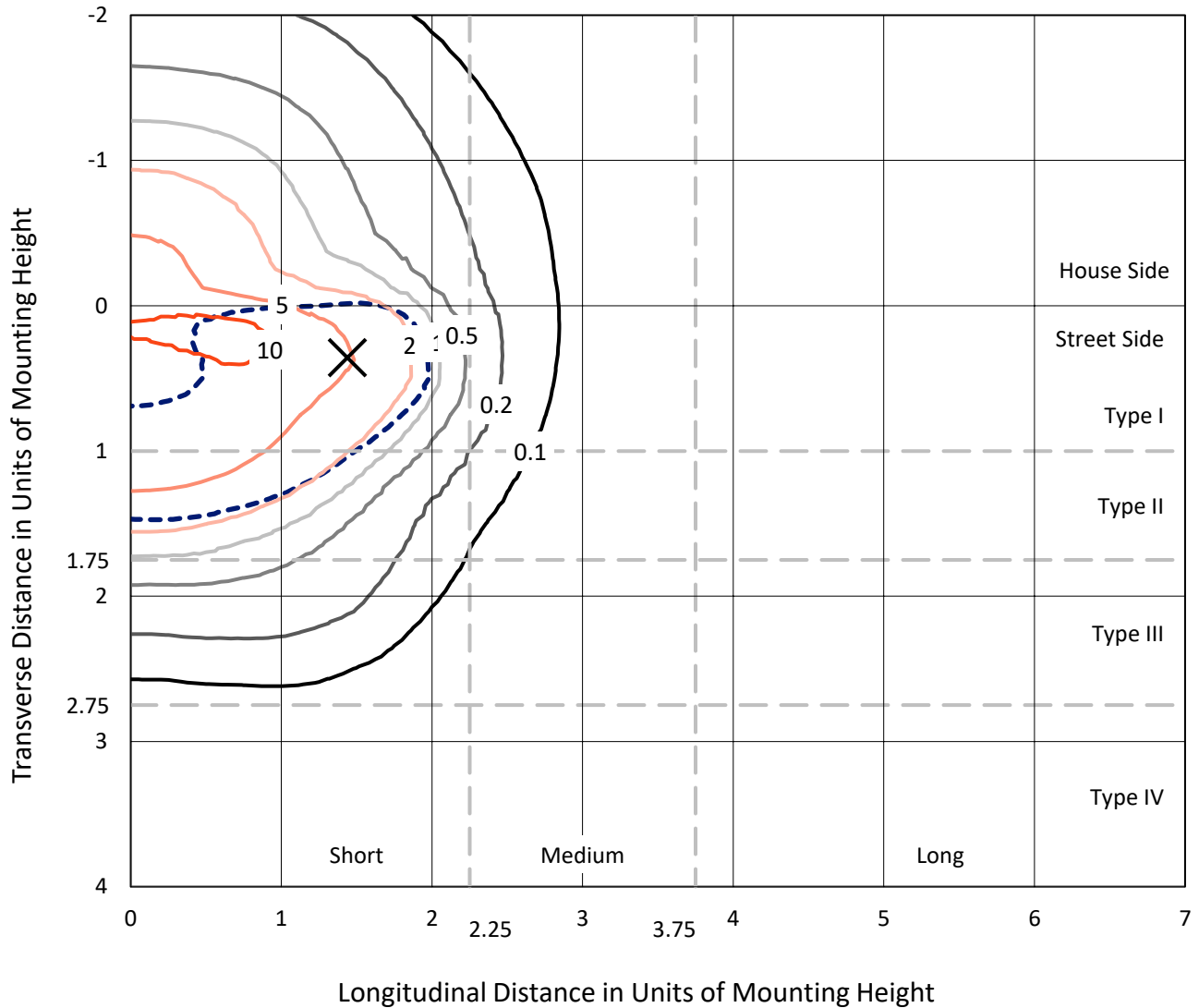
Input Watts (W): 368
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

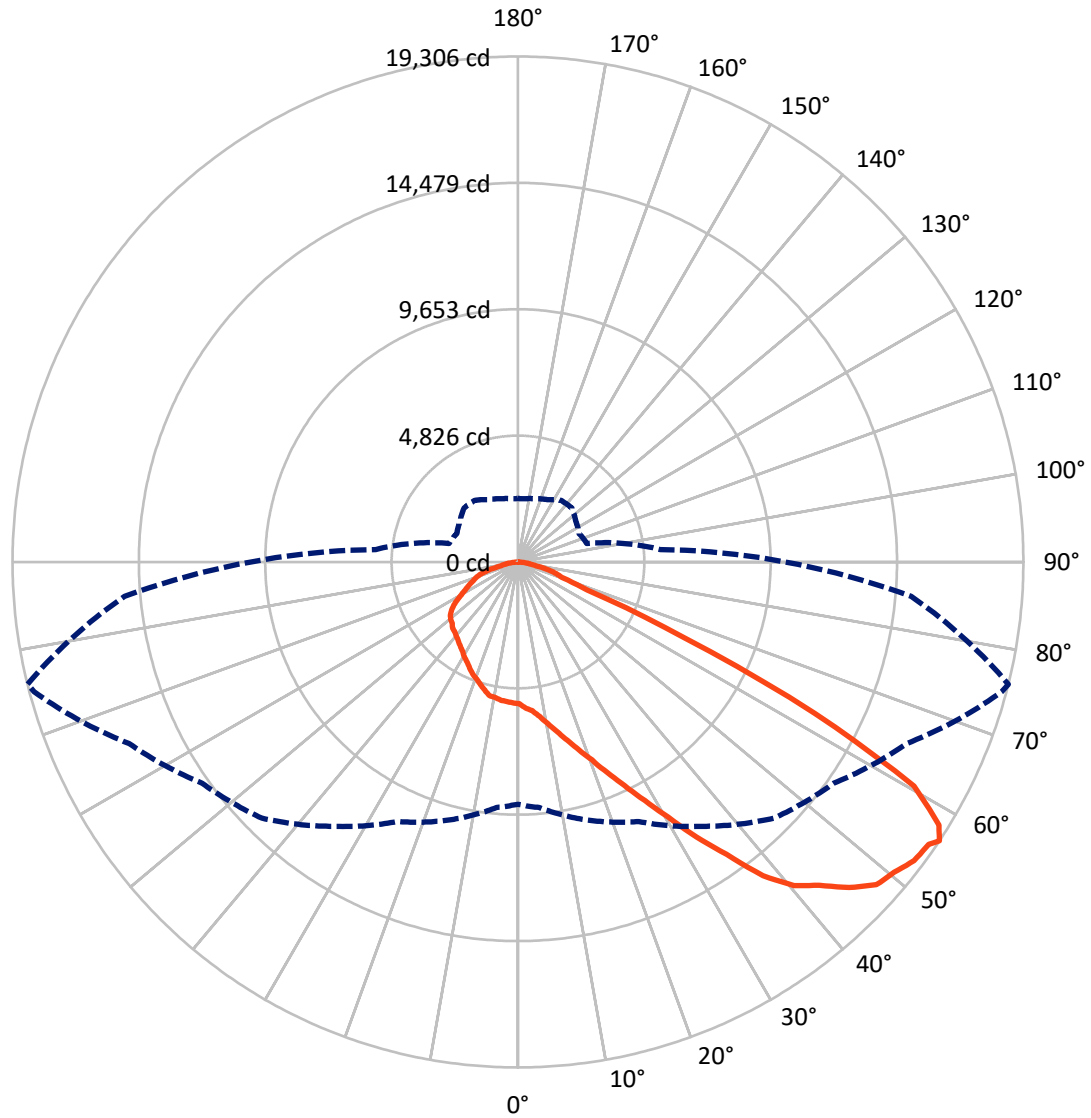
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12 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	7605.3	0.0	7605.3
	% Fixture	26.9	0.0	26.9
Street Side	Lumens	20680.7	0.0	20680.7
	% Fixture	73.1	0.0	73.1
Total	Lumens	28286.0	0.0	28286.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	536.7	1.9
10°-20°	1686.0	6.0
20°-30°	2948.6	10.4
30°-40°	4616.7	16.3
40°-50°	6716.0	23.7
50°-60°	7381.3	26.1
60°-70°	3294.7	11.6
70°-80°	951.6	3.4
80°-90°	154.4	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°	28286.0	100.0
0°-180°	28286.0	100.0

Coefficient of Utilization



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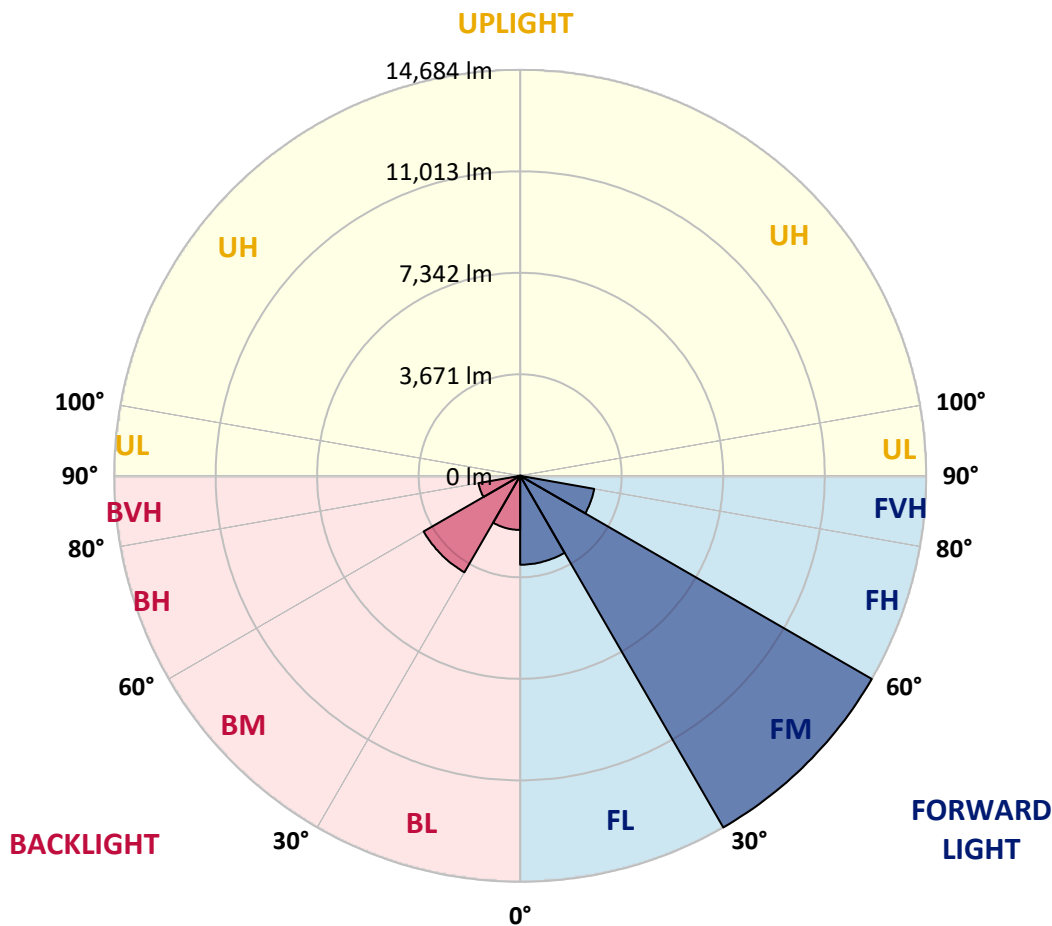
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3214.4	11.4			
FM (30°-60°)	14683.8	51.9			
FH (60°-80°)	2716.1	9.6			G2/5000
FVH (80°-90°)	66.4	0.2			G1/100
BL (0°-30°)	1957.0	6.9	B3/2500		
BM (30°-60°)	4030.2	14.2	B3/5000		
BH (60°-80°)	1530.2	5.4	B3/2500		G3/2500
BVH (80°-90°)	87.9	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°	5412.2	5412.2	5412.2	5412.2	5412.2	5412.2	5412.2	5412.2	5412.2	5412.2	5412.2
2.5°	5962.2	5866.8	5859.5	5833.8	5848.5	5782.5	5712.8	5621.2	5525.8	5584.5	5445.2
5°	6380.2	6251.9	6303.2	6215.2	6226.2	6138.2	5995.2	5888.8	5771.5	5701.8	5602.8
7.5°	6526.9	6537.9	6574.5	6559.9	6486.5	6486.5	6391.2	6204.2	5998.8	5958.5	5793.5
10°	6724.9	6728.5	6688.2	6699.2	6801.9	6754.2	6669.9	6589.2	6325.2	6277.5	5984.2
12.5°	6794.5	6728.5	6794.5	6853.2	6974.2	7040.2	7021.9	6963.2	6680.9	6647.9	6218.9
15°	6805.5	6765.2	6820.2	6952.2	7058.5	7337.2	7476.6	7436.2	7062.2	7065.9	6482.9
17.5°	6754.2	6809.2	6831.2	6944.9	7190.5	7450.9	7854.2	7909.2	7601.2	7553.6	6816.5
20°	6823.9	6783.5	6812.9	6915.5	7241.9	7648.9	8176.9	8539.9	8107.2	8074.2	7161.2
22.5°	7091.5	7036.5	7029.2	7095.2	7329.9	7751.6	8517.9	9170.6	8723.3	8741.6	7590.2
25°	7300.6	7329.9	7304.2	7300.6	7447.2	7905.6	8968.9	9922.3	9559.3	9453.0	8096.2
27.5°	7659.9	7729.6	7678.2	7747.9	7714.9	8136.6	9291.6	10754.7	10461.3	10318.3	8554.6
30°	8158.6	8195.2	8147.6	8147.6	8048.6	8459.3	9585.0	11623.7	11502.7	11308.3	9093.6
32.5°	8814.9	8869.9	8774.6	8719.6	8704.9	8939.6	10113.0	12481.7	12687.0	12522.0	9808.6
35°	9684.0	9651.0	9537.3	9486.0	9287.9	9676.6	10897.7	13468.1	14007.1	13713.7	10674.0
37.5°	10450.3	10399.0	10391.6	10105.6	10153.3	10472.3	11565.0	14216.1	15286.8	15202.5	11587.0
40°	11165.3	11213.0	11290.0	11128.7	11055.3	11407.3	12342.4	14788.1	16280.5	16247.5	12291.0
42.5°	11931.7	11887.7	12023.4	11887.7	11777.7	12276.4	13185.7	15184.1	17153.2	16881.8	13028.1
45°	13042.7	12903.4	12951.1	12962.1	12881.4	13064.7	13534.1	15470.1	17765.5	17736.2	13567.1
47.5°	13970.4	13974.1	13893.4	13831.1	13585.4	13768.7	13922.8	15649.8	18469.6	18421.9	13776.1
50°	14315.1	14267.4	14502.1	14637.8	14652.4	14278.4	14227.1	15748.8	18839.9	18630.9	13985.1
52.5°	13075.7	13119.7	13490.1	14296.8	14762.4	14802.8	14582.8	15954.1	18990.2	18946.2	14153.8
55°	10523.7	10736.3	11345.0	12276.4	13380.1	14593.8	14967.8	16166.8	19070.9	19034.2	14901.8
56°	9251.3	9416.3	10208.3	10938.0	12324.0	13834.7	14725.8	16394.2	19133.2	19305.6	15077.8
57.5°	7447.2	7637.9	8206.2	9034.9	10670.3	12390.0	14058.4	16115.5	18891.2	18957.2	15206.1
60°	4656.8	4675.1	5357.2	5903.5	7054.9	8734.3	10729.0	14021.8	17483.2	17387.9	13658.7
62.5°	3054.4	3058.1	3677.8	4125.1	4649.5	5034.5	6314.2	9298.9	12899.7	12731.0	9724.3
65°	2145.1	2192.7	2673.1	3270.8	3483.4	3281.8	3241.4	4902.5	7205.2	6963.2	5225.2
67.5°	1569.4	1573.0	1998.4	2640.1	2948.1	2497.1	2027.7	2394.4	2852.8	2845.4	2420.1
70°	1037.7	1081.7	1408.0	1972.7	2324.7	2005.7	1657.4	1712.4	1815.1	1815.1	1800.4
72.5°	605.0	645.4	861.7	1250.4	1305.4	1254.0	1312.7	1466.7	1532.7	1529.0	1510.7
75°	344.7	363.0	410.7	520.7	649.0	766.4	964.4	1111.0	1177.0	1217.4	1169.7
77.5°	201.7	212.7	242.0	297.0	337.3	414.3	524.3	627.0	715.0	704.0	711.4
80°	106.3	106.3	135.7	176.0	234.7	293.3	348.3	407.0	454.7	465.7	476.7
82.5°	62.3	66.0	88.0	128.3	168.7	209.0	267.7	308.0	352.0	355.7	363.0
85°	33.0	36.7	55.0	84.3	113.7	128.3	132.0	124.7	135.7	128.3	146.7
87.5°	11.0	11.0	18.3	14.7	14.7	18.3	22.0	22.0	29.3	29.3	29.3
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°	5412.2	5412.2	5412.2	5412.2	5412.2	5412.2	5412.2	5412.2	5412.2	5412.2	5412.2
2.5°	5441.5	5441.5	5379.2	5261.8	5243.5	5195.8	5151.8	5148.2	5115.2	5085.8	5071.2
5°	5544.2	5430.5	5338.8	5232.5	5107.8	5049.2	4983.1	4909.8	4880.5	4909.8	4906.1
7.5°	5661.5	5566.2	5291.2	5093.2	4950.1	4891.5	4818.1	4741.1	4748.5	4748.5	4697.1
10°	5775.2	5646.8	5206.8	4953.8	4744.8	4700.8	4660.5	4689.8	4726.5	4733.8	4700.8
12.5°	5965.8	5676.2	5166.5	4814.5	4682.5	4587.1	4612.8	4693.5	4770.5	4748.5	4774.1
15°	6108.9	5701.8	4983.1	4671.5	4506.5	4550.5	4642.1	4697.1	4825.5	4810.8	4836.5
17.5°	6248.2	5716.5	4803.5	4480.8	4411.1	4532.1	4601.8	4759.5	4799.8	4887.8	4920.8
20°	6534.2	5745.8	4620.1	4363.5	4341.5	4480.8	4601.8	4675.1	4763.1	4840.1	4840.1
22.5°	6680.9	5731.2	4499.1	4209.5	4279.1	4367.1	4477.1	4601.8	4601.8	4675.1	4678.8
25°	6864.2	5672.5	4308.5	4136.1	4187.5	4271.8	4396.5	4352.5	4400.1	4400.1	4458.8
27.5°	7073.2	5547.8	4143.5	4004.1	4106.8	4198.5	4216.8	4187.5	4132.5	4125.1	4103.1
30°	7241.9	5393.8	4022.5	3960.1	4044.5	4095.8	4037.1	3974.8	3879.5	3872.1	3820.8
32.5°	7472.9	5203.2	3872.1	3850.1	3945.5	3949.1	3930.8	3835.4	3696.1	3637.4	3578.8
35°	7861.6	5093.2	3758.4	3791.4	3820.8	3809.8	3776.8	3674.1	3534.8	3509.1	3487.1
37.5°	8147.6	5012.5	3641.1	3681.4	3707.1	3721.8	3622.8	3509.1	3512.8	3461.4	3446.8
40°	8470.3	4961.1	3545.8	3564.1	3567.8	3615.4	3494.4	3439.4	3465.1	3432.1	3454.1
42.5°	8884.6	4975.8	3446.8	3432.1	3501.8	3483.4	3424.8	3351.4	3366.1	3267.1	3281.8
45°	9104.6	5074.8	3388.1	3322.1	3399.1	3395.4	3318.4	3248.8	3160.8	2970.1	2977.4
47.5°	9251.3	5100.5	3248.8	3204.8	3285.4	3333.1	3245.1	3083.8	2959.1	2823.4	2790.4
50°	9401.6	5148.2	3182.8	3091.1	3124.1	3237.8	3127.8	2973.8	2852.8	2731.7	2750.1
52.5°	9533.6	5239.8	3054.4	2918.8	2977.4	3102.1	3043.4	2856.4	2724.4	2625.4	2596.1
55°	10120.3	5445.2	2838.1	2662.1	2801.4	2959.1	2926.1	2698.7	2555.7	2504.4	2497.1
56°	10212.0	5452.5	2724.4	2574.1	2702.4	2911.4	2871.1	2629.1	2500.7	2420.1	2423.7
57.5°	10226.6	5364.5	2563.1	2493.4	2603.4	2841.8	2790.4	2574.1	2398.1	2324.7	2302.7
60°	8998.3	4187.5	2361.4	2317.4	2445.7	2629.1	2610.7	2423.7	2225.7	2141.4	2181.7
62.5°	6134.5	3069.1	2203.7	2196.4	2262.4	2442.1	2394.4	2225.7	2060.7	2005.7	1980.1
65°	3571.4	2328.4	2049.7	2020.4	2075.4	2170.7	2203.7	2027.7	1855.4	1818.7	1807.7
67.5°	2108.4	1925.1	1851.7	1804.1	1785.7	1844.4	1870.1	1767.4	1595.0	1543.7	1587.7
70°	1763.7	1712.4	1716.1	1635.4	1591.4	1551.0	1529.0	1437.4	1294.4	1228.4	1210.0
72.5°	1521.7	1499.7	1485.0	1411.7	1371.4	1279.7	1184.4	1092.7	986.4	931.4	935.0
75°	1162.4	1155.0	1162.4	1125.7	1056.0	982.7	894.7	777.4	696.7	627.0	641.7
77.5°	693.0	715.0	726.0	711.4	682.0	616.0	561.0	484.0	407.0	352.0	344.7
80°	476.7	495.0	513.3	495.0	465.7	418.0	359.3	300.7	245.7	216.3	209.0
82.5°	363.0	381.3	392.3	374.0	337.3	286.0	245.7	205.3	161.3	132.0	124.7
85°	132.0	150.3	146.7	176.0	190.7	183.3	157.7	121.0	91.7	66.0	62.3
87.5°	36.7	33.0	36.7	36.7	36.7	33.0	29.3	29.3	29.3	18.3	14.7
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)