

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: P531478

Luminaire Tested: **GALN-SA6D-735-U-AFL-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P531478
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-28)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA6D-735-U-AFL-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 38561 lumens
Efficiency: N/A
Efficacy: 104.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

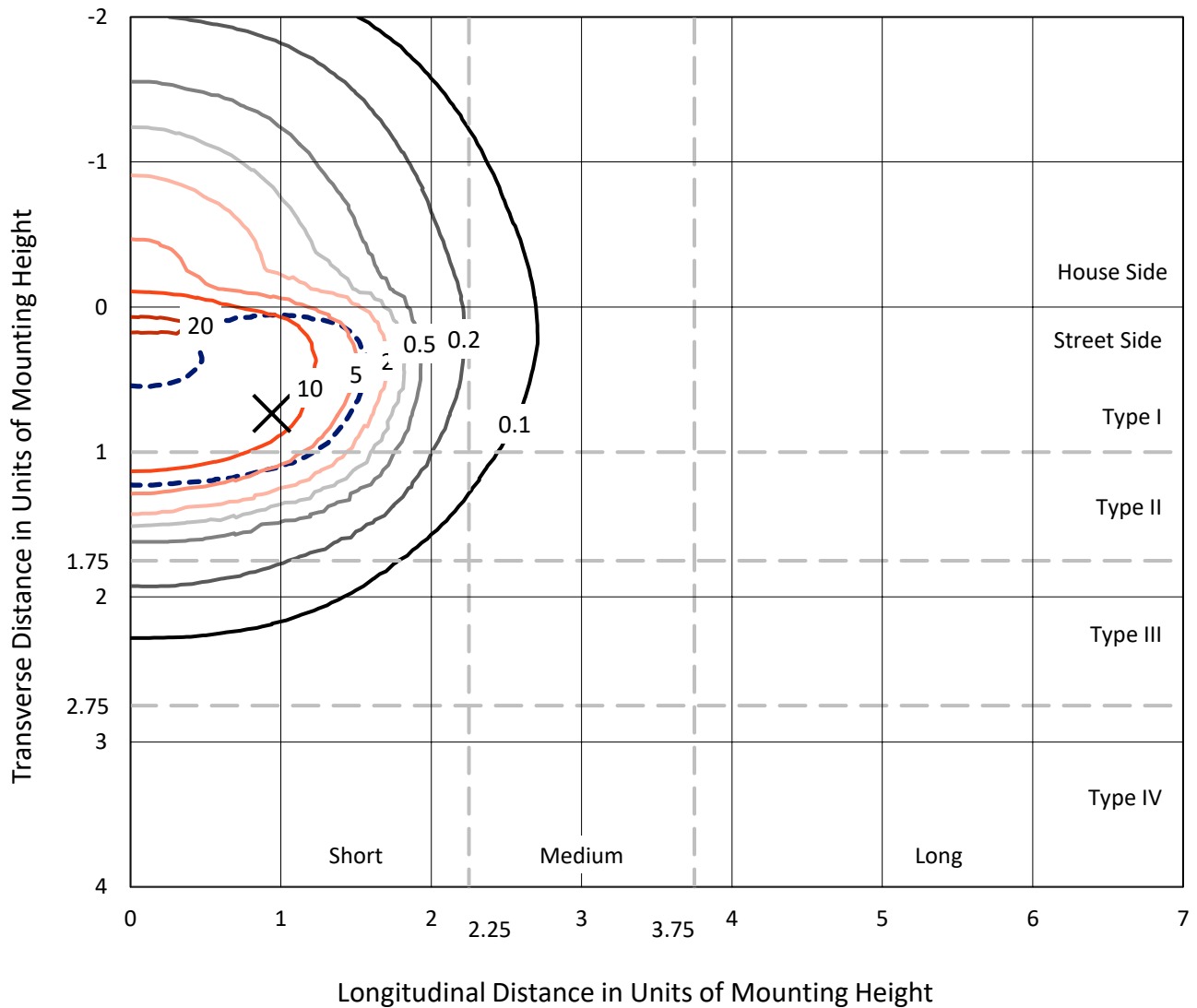
Input Watts (W): 368
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

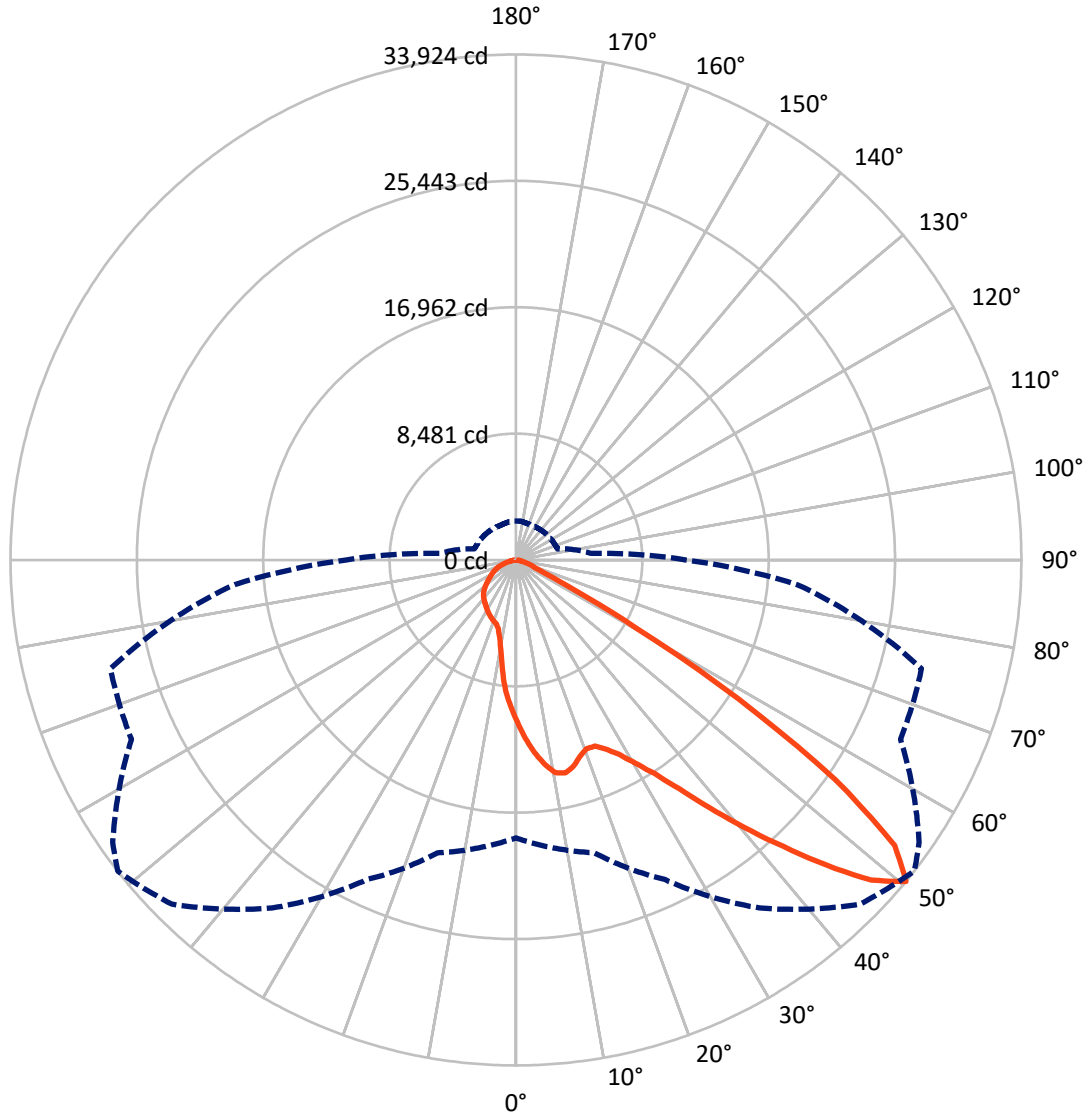
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 22.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 52-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7248.6	0.0	7248.6
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	31312.4	0.0	31312.4
	% Fixture	81.2	0.0	81.2
Total	Lumens	38561.0	0.0	38561.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1001.9	2.6
10°-20°	2685.2	7.0
20°-30°	4523.2	11.7
30°-40°	7590.2	19.7
40°-50°	11611.2	30.1
50°-60°	8465.5	22.0
60°-70°	1884.0	4.9
70°-80°	679.5	1.8
80°-90°	120.3	0.3
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°	38561.0	100.0
0°-180°	38561.0	100.0

Coefficient of Utilization

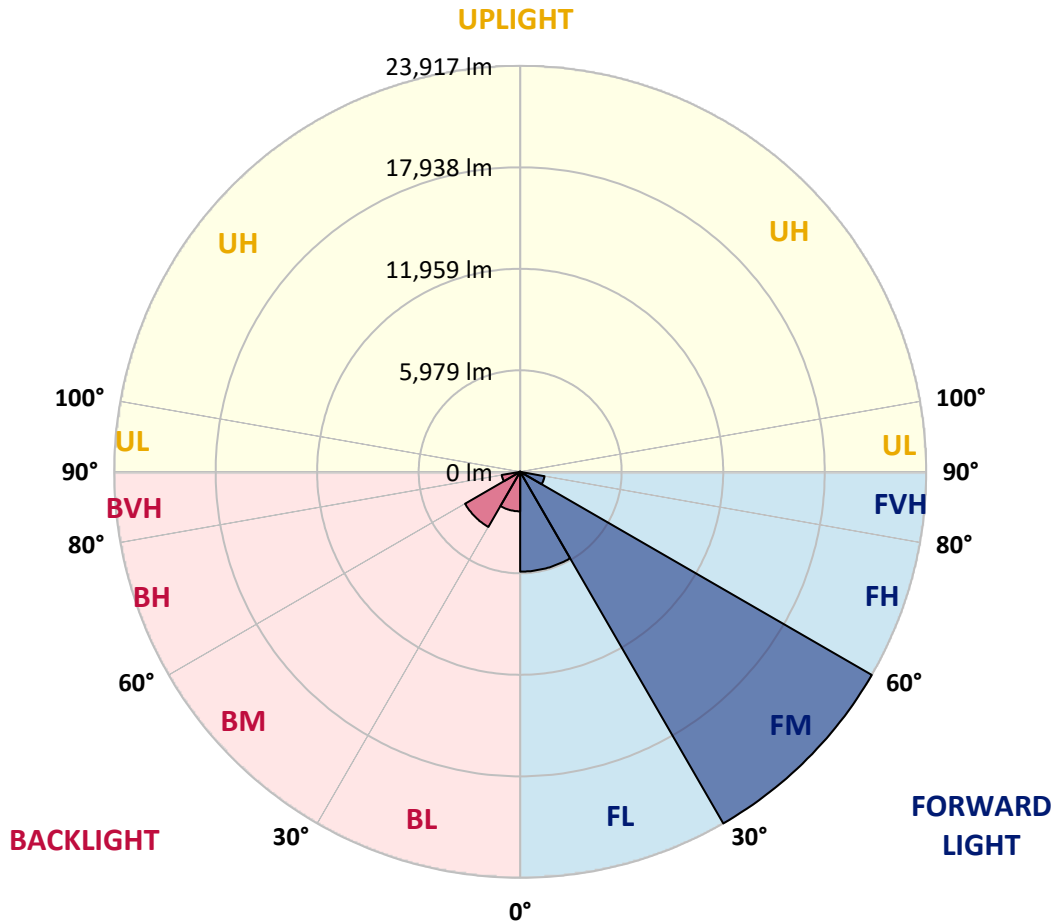


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5881.9	15.3			
FM (30°-60°)	23917.5	62.0			
FH (60°-80°)	1459.2	3.8			G1/1800
FVH (80°-90°)	53.9	0.1			G1/100
BL (0°-30°)	2328.4	6.0	B3/2500		
BM (30°-60°)	3749.4	9.7	B3/5000		
BH (60°-80°)	1104.4	2.9	B3/2500		G3/2500
BVH (80°-90°)	66.4	0.2			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°	52°	55°	65°	75°	85°
0°	10869.7	10869.7	10869.7	10869.7	10869.7	10869.7	10869.7	10869.7	10869.7	10869.7	10869.7
2.5°	12798.3	12552.0	12579.9	12403.3	12212.7	12157.0	11961.8	11775.9	11636.5	11339.1	11064.9
5°	13988.0	13913.6	13802.1	13662.6	13518.6	13165.4	12965.6	12733.2	12222.0	11762.0	11306.5
7.5°	14159.9	14146.0	14206.4	14206.4	14257.5	14122.7	13839.2	13676.6	13132.9	12384.7	11538.9
10°	12951.6	12993.5	13286.2	13667.3	14197.1	14564.2	14517.7	14475.9	13881.1	12858.7	11813.1
12.5°	11989.7	11896.7	12068.7	12394.0	13188.6	14076.2	14675.7	14680.4	14527.0	13616.2	12012.9
15°	11446.0	11511.0	11557.5	11710.8	12310.3	13337.3	14392.3	14703.6	15377.5	14150.6	12328.9
17.5°	11794.5	11576.1	11566.8	11604.0	11910.7	12682.1	13867.1	14401.5	15842.2	14838.4	12719.3
20°	12249.9	12245.3	12115.1	12068.7	12064.0	12751.8	13523.2	14248.2	16088.5	15730.6	13114.3
22.5°	13049.2	13049.2	12835.5	12733.2	12514.8	13077.1	13569.7	14062.3	16497.4	16344.1	13304.8
25°	14387.6	14169.2	13802.1	13551.1	13425.6	13625.5	14062.3	14503.8	16855.2	16994.7	13699.8
27.5°	15623.8	15279.9	15098.6	14666.4	14499.1	14383.0	14782.6	15228.7	17273.5	18007.7	13913.6
30°	17027.2	16966.8	16641.5	16083.8	15670.2	15456.5	15823.6	16265.1	18040.3	19044.1	14406.2
32.5°	19536.7	18988.3	18546.8	17863.7	17189.8	16734.4	17096.9	17389.7	19313.6	20126.8	14945.3
35°	22246.0	22069.4	21307.2	20075.7	19044.1	18635.1	18848.9	19067.3	20796.0	21781.2	15851.5
37.5°	24908.8	24667.1	24039.8	23003.4	21748.7	20916.9	21070.2	21325.8	22459.7	24011.9	16957.5
40°	26823.4	26526.0	26210.0	26056.6	24811.2	23672.6	23584.3	23649.4	24708.9	26103.1	18184.3
42.5°	26962.8	27329.9	27427.5	28045.6	27752.8	26818.8	26275.0	26289.0	26855.9	28171.1	19425.1
45°	26670.0	26330.8	27051.1	28738.0	29704.6	30141.5	29226.0	29109.8	28185.0	29370.0	20043.2
47.5°	23598.3	23691.2	24908.8	27576.2	30369.2	32321.0	32107.2	31721.5	28896.0	29328.2	19945.6
50°	18653.7	19216.0	20345.3	23668.0	28510.3	32664.9	33924.3	33032.0	28473.1	28175.7	18951.1
52.5°	12421.9	12654.2	13397.8	17687.1	22924.4	29198.1	31833.0	32037.5	28082.8	26665.4	17691.7
55°	5530.1	5511.5	6557.1	9238.6	14383.0	22218.1	26010.2	27255.6	26581.8	25127.2	16464.9
57.5°	2342.2	2421.2	2848.7	3991.9	7073.0	13407.1	17622.0	18714.1	20442.9	20633.4	12631.0
60°	1584.7	1594.0	1710.2	1998.3	2960.2	6296.9	9243.2	10553.7	11789.8	11706.2	6701.2
62.5°	1245.4	1278.0	1366.3	1482.4	1756.6	2858.0	4136.0	4865.6	4944.6	4159.2	2542.0
65°	1064.2	1068.8	1157.1	1254.7	1375.6	1663.7	1993.6	2030.8	2054.0	1979.7	1868.2
67.5°	878.3	887.6	957.3	1068.8	1180.4	1273.3	1366.3	1412.7	1519.6	1728.7	1700.9
70°	697.1	711.0	771.4	864.4	966.6	1022.4	1138.6	1180.4	1278.0	1440.6	1505.7
72.5°	529.8	534.4	585.5	650.6	743.5	799.3	896.9	943.4	1008.4	1147.8	1208.3
75°	381.1	395.0	432.2	464.7	478.7	515.8	608.8	659.9	752.8	813.3	817.9
77.5°	199.8	209.1	218.4	218.4	264.9	334.6	395.0	422.9	488.0	534.4	511.2
80°	79.0	83.6	106.9	144.1	185.9	241.7	283.5	297.4	353.2	381.1	395.0
82.5°	46.5	51.1	69.7	102.2	134.8	171.9	204.5	218.4	255.6	288.1	297.4
85°	23.2	27.9	41.8	65.1	88.3	106.9	102.2	97.6	97.6	92.9	97.6
87.5°	9.3	9.3	13.9	13.9	13.9	18.6	23.2	23.2	23.2	27.9	27.9
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°	10869.7	10869.7	10869.7	10869.7	10869.7	10869.7	10869.7	10869.7	10869.7	10869.7	10869.7
2.5°	10883.6	10697.8	10525.8	10209.8	9865.9	9768.3	9368.7	9224.6	9122.4	9001.5	8964.4
5°	10939.4	10693.1	10140.1	9503.4	8996.9	8346.3	7918.8	7458.7	7124.1	7040.4	7017.2
7.5°	11055.6	10632.7	9680.0	8718.1	7681.8	6798.8	6125.0	5762.5	5441.8	5423.2	5390.7
10°	11185.7	10451.5	9178.1	7667.8	6343.4	5525.5	5121.2	4963.2	4884.2	4865.6	4856.3
12.5°	11292.6	10414.3	8615.8	6645.4	5395.4	4902.8	4781.9	4768.0	4800.5	4809.8	4828.4
15°	11339.1	10265.6	7937.3	5729.9	4805.2	4623.9	4675.0	4730.8	4754.0	4814.5	4768.0
17.5°	11427.4	10075.0	7100.9	5005.0	4475.2	4507.7	4596.0	4661.1	4698.3	4740.1	4679.7
20°	11473.8	9903.1	6315.5	4572.8	4359.0	4419.4	4540.3	4591.4	4637.9	4656.5	4586.7
22.5°	11432.0	9549.9	5623.1	4224.3	4247.5	4326.5	4433.4	4489.2	4461.3	4386.9	4345.1
25°	11320.5	9052.7	4902.8	4001.2	4089.5	4228.9	4312.6	4270.7	4219.6	4177.8	4163.9
27.5°	11315.8	8443.9	4382.3	3796.7	3954.7	4145.3	4117.4	4080.2	4103.4	4070.9	4033.7
30°	11339.1	7853.7	3954.7	3680.6	3857.1	3950.1	3982.6	3945.4	3973.3	3912.9	3931.5
32.5°	11218.2	7277.5	3675.9	3545.8	3741.0	3736.3	3843.2	3871.1	3806.0	3680.6	3699.1
35°	11269.4	6812.7	3438.9	3485.4	3610.8	3610.8	3694.5	3662.0	3490.0	3415.7	3434.3
37.5°	11622.5	6357.3	3322.7	3401.7	3485.4	3522.5	3494.7	3355.2	3313.4	3313.4	3322.7
40°	11957.1	5967.0	3253.0	3383.1	3369.2	3392.4	3188.0	3201.9	3201.9	3206.5	3183.3
42.5°	12254.6	5702.1	3197.2	3271.6	3294.8	3174.0	3048.5	3034.6	3067.1	3062.5	3043.9
45°	12361.4	5483.6	3118.2	3146.1	3164.7	2964.9	2904.5	2876.6	2913.8	2927.7	2946.3
47.5°	11952.5	5302.4	3029.9	2974.2	2937.0	2806.9	2727.9	2676.8	2723.2	2802.2	2820.8
50°	11427.4	5065.4	2890.5	2783.6	2704.6	2648.9	2593.1	2542.0	2574.5	2630.3	2616.4
52.5°	10651.3	4693.6	2713.9	2602.4	2467.6	2481.6	2430.5	2402.6	2421.2	2421.2	2407.2
55°	9545.3	3857.1	2416.5	2337.5	2226.0	2263.2	2272.5	2235.3	2198.1	2230.6	2202.8
57.5°	6515.3	2723.2	2156.3	2156.3	2044.8	2095.9	2091.2	2002.9	1914.6	1923.9	1905.3
60°	3768.8	2170.2	1989.0	1970.4	1854.2	1896.0	1905.3	1844.9	1710.2	1719.4	1700.9
62.5°	2142.3	1854.2	1738.0	1710.2	1686.9	1724.1	1724.1	1645.1	1528.9	1538.2	1519.6
65°	1821.7	1719.4	1552.2	1547.5	1538.2	1547.5	1510.3	1426.7	1324.4	1282.6	1287.3
67.5°	1654.4	1589.3	1426.7	1384.9	1357.0	1352.3	1282.6	1203.6	1157.1	1120.0	1115.3
70°	1449.9	1398.8	1278.0	1222.2	1194.3	1129.3	1059.6	1008.4	943.4	924.8	943.4
72.5°	1147.8	1143.2	1096.7	1036.3	975.9	924.8	864.4	794.7	734.3	720.3	687.8
75°	794.7	804.0	813.3	804.0	752.8	687.8	618.1	562.3	488.0	446.1	436.8
77.5°	520.5	534.4	548.4	529.8	497.2	436.8	390.4	320.7	264.9	232.4	227.7
80°	381.1	399.7	409.0	395.0	357.8	311.4	260.2	204.5	162.7	134.8	134.8
82.5°	292.8	311.4	320.7	297.4	260.2	223.1	185.9	144.1	111.5	88.3	83.6
85°	102.2	97.6	116.2	120.8	144.1	134.8	111.5	83.6	65.1	46.5	41.8
87.5°	27.9	27.9	32.5	32.5	27.9	23.2	23.2	23.2	18.6	13.9	13.9
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)