

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: P533818

Luminaire Tested: **GALN-SA9B-735-U-AFL-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533818
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-SA9B-735-U-AFL-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3500K, 800mA 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: 43361 lumens
Efficiency: N/A
Efficacy: 119.1 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

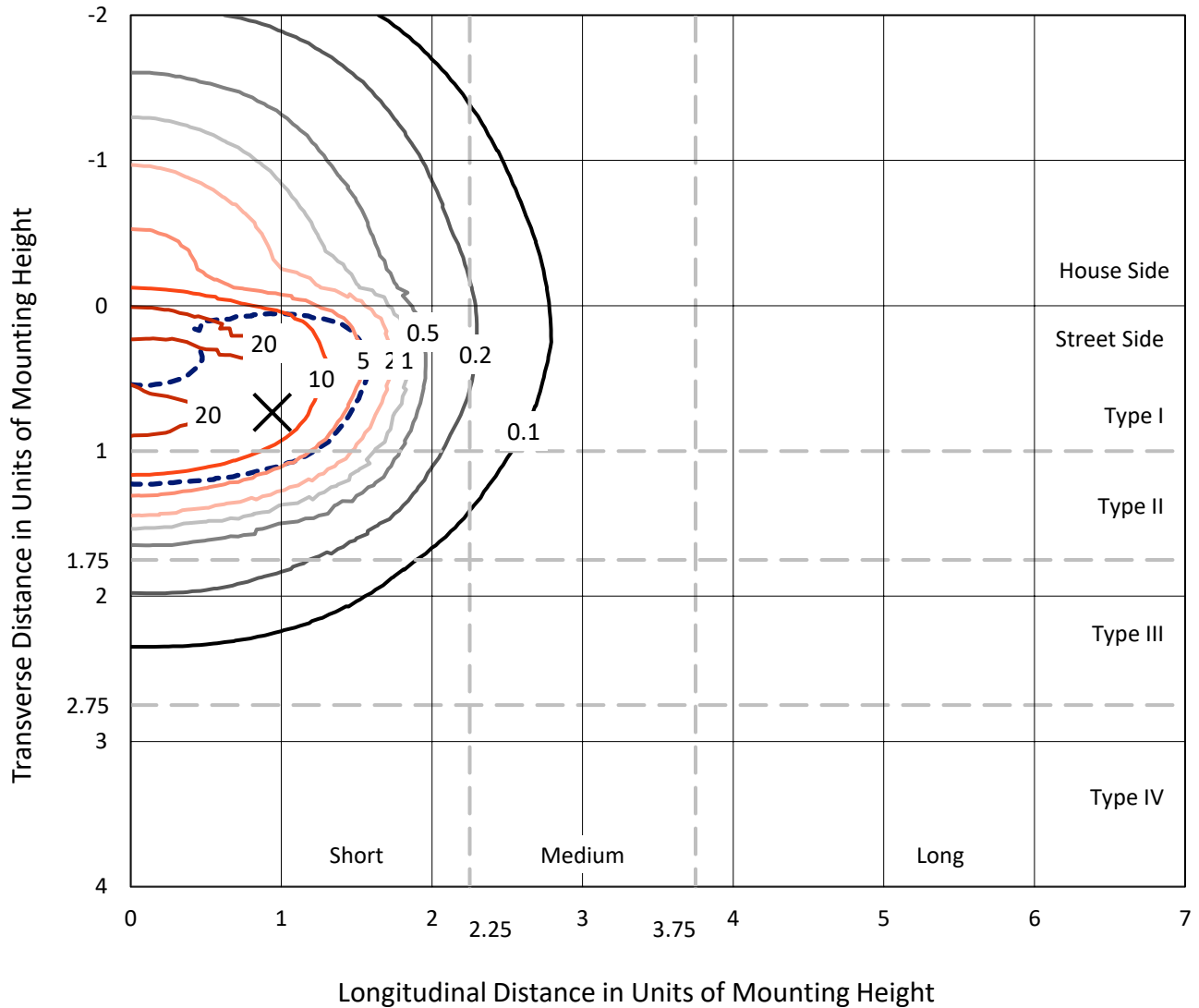
Input Watts (W): 364
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

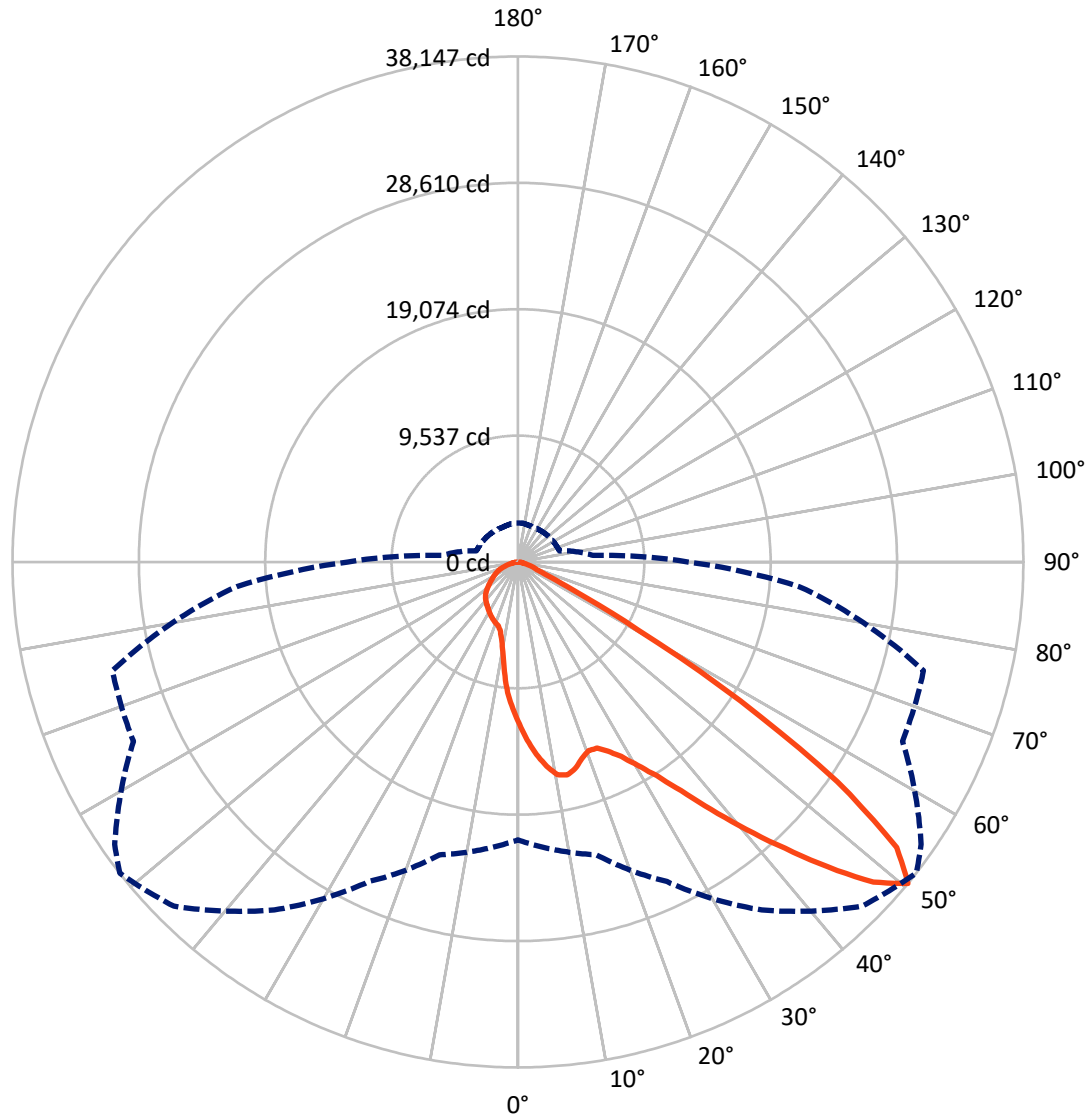
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 25 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	8150.8	0.0	8150.8
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	35210.2	0.0	35210.2
	% Fixture	81.2	0.0	81.2
Total	Lumens	43361.0	0.0	43361.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1126.6	2.6
10°-20°	3019.5	7.0
20°-30°	5086.2	11.7
30°-40°	8535.1	19.7
40°-50°	13056.5	30.1
50°-60°	9519.3	22.0
60°-70°	2118.5	4.9
70°-80°	764.1	1.8
80°-90°	135.3	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°	43361.0	100.0
0°-180°	43361.0	100.0

Coefficient of Utilization



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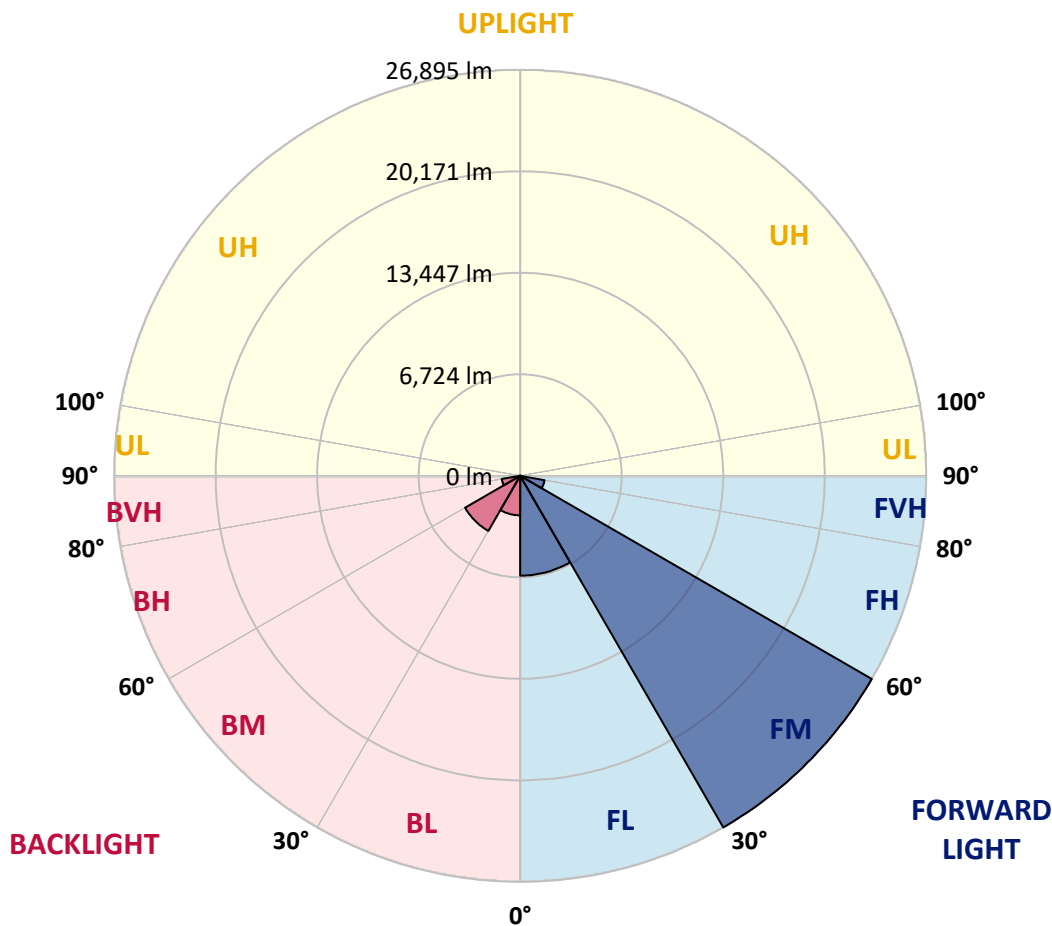
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	6614.0	15.3			
FM (30°-60°)	26894.7	62.0			
FH (60°-80°)	1640.8	3.8			G1/1800
FVH (80°-90°)	60.6	0.1			G1/100
BL (0°-30°)	2618.2	6.0	B4/5000		
BM (30°-60°)	4216.2	9.7	B3/5000		
BH (60°-80°)	1241.8	2.9	B3/2500		G3/2500
BVH (80°-90°)	74.6	0.2			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°	52°	55°	65°	75°	85°
0°	12222.7	12222.7	12222.7	12222.7	12222.7	12222.7	12222.7	12222.7	12222.7	12222.7	12222.7
2.5°	14391.4	14114.4	14145.8	13947.2	13733.0	13670.2	13450.8	13241.7	13085.0	12750.5	12442.2
5°	15729.1	15645.5	15520.1	15363.4	15201.4	14804.2	14579.5	14318.2	13743.4	13226.1	12714.0
7.5°	15922.5	15906.8	15974.7	15974.7	16032.2	15880.7	15561.9	15379.0	14767.6	13926.3	12975.2
10°	14563.8	14610.9	14940.1	15368.6	15964.3	16377.1	16324.9	16277.8	15609.0	14459.3	13283.5
12.5°	13482.1	13377.6	13571.0	13936.8	14830.3	15828.4	16502.5	16507.8	16335.3	15311.1	13508.3
15°	12870.7	12943.9	12996.1	13168.6	13842.7	14997.6	16183.8	16533.9	17291.6	15912.0	13863.6
17.5°	13262.6	13017.0	13006.6	13048.4	13393.3	14260.7	15593.3	16194.2	17814.2	16685.4	14302.5
20°	13774.8	13769.5	13623.2	13571.0	13565.7	14339.1	15206.6	16021.8	18091.1	17688.8	14746.7
22.5°	14673.6	14673.6	14433.2	14318.2	14072.6	14704.9	15258.8	15812.8	18551.0	18378.5	14961.0
25°	16178.5	15932.9	15520.1	15237.9	15096.8	15321.5	15812.8	16309.2	18953.4	19110.1	15405.2
27.5°	17568.6	17181.9	16978.1	16492.1	16304.0	16173.3	16622.7	17124.4	19423.7	20249.3	15645.5
30°	19146.7	19078.8	18713.0	18085.9	17620.8	17380.4	17793.3	18289.7	20285.9	21414.6	16199.5
32.5°	21968.5	21351.9	20855.5	20087.3	19329.6	18817.5	19225.1	19554.3	21717.7	22632.2	16805.6
35°	25015.1	24816.5	23959.5	22574.7	21414.6	20954.8	21195.2	21440.8	23384.7	24492.5	17824.6
37.5°	28009.4	27737.6	27032.2	25866.9	24455.9	23520.6	23693.0	23980.4	25255.5	27000.8	19068.3
40°	30162.3	29827.9	29472.5	29300.1	27899.6	26619.4	26520.1	26593.2	27784.7	29352.4	20447.9
42.5°	30319.1	30731.9	30841.7	31536.7	31207.5	30157.1	29545.7	29561.4	30198.9	31677.8	21843.1
45°	29989.9	29608.4	30418.4	32315.3	33402.2	33893.4	32864.0	32733.3	31693.4	33026.0	22538.1
47.5°	26535.7	26640.3	28009.4	31008.9	34149.5	36344.3	36103.9	35670.1	32493.0	32978.9	22428.4
50°	20975.7	21608.0	22877.8	26614.1	32059.2	36730.9	38147.1	37143.8	32017.4	31683.0	21310.1
52.5°	13968.1	14229.4	15065.5	19888.7	25778.0	32832.6	35795.6	36025.5	31578.5	29984.7	19894.0
55°	6218.5	6197.6	7373.4	10388.6	16173.3	24983.7	29247.8	30648.3	29890.6	28255.0	18514.4
57.5°	2633.7	2722.6	3203.3	4488.8	7953.4	15075.9	19815.6	21043.6	22987.5	23201.8	14203.3
60°	1781.9	1792.4	1923.0	2247.0	3328.7	7080.7	10393.8	11867.4	13257.4	13163.4	7535.4
62.5°	1400.5	1437.0	1536.3	1667.0	1975.3	3213.8	4650.8	5471.2	5560.1	4676.9	2858.4
65°	1196.7	1201.9	1301.2	1410.9	1546.8	1870.8	2241.8	2283.6	2309.7	2226.1	2100.7
67.5°	987.6	998.1	1076.5	1201.9	1327.3	1431.8	1536.3	1588.6	1708.8	1943.9	1912.6
70°	783.8	799.5	867.5	972.0	1086.9	1149.6	1280.3	1327.3	1437.0	1619.9	1693.1
72.5°	595.7	600.9	658.4	731.6	836.1	898.8	1008.5	1060.8	1134.0	1290.7	1358.7
75°	428.5	444.2	486.0	522.6	538.2	580.0	684.6	742.0	846.6	914.5	919.7
77.5°	224.7	235.2	245.6	245.6	297.9	376.2	444.2	475.5	548.7	600.9	574.8
80°	88.8	94.1	120.2	162.0	209.0	271.7	318.8	334.4	397.1	428.5	444.2
82.5°	52.3	57.5	78.4	115.0	151.5	193.3	229.9	245.6	287.4	324.0	334.4
85°	26.1	31.4	47.0	73.2	99.3	120.2	115.0	109.7	109.7	104.5	109.7
87.5°	10.5	10.5	15.7	15.7	15.7	20.9	26.1	26.1	26.1	31.4	31.4
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°	12222.7	12222.7	12222.7	12222.7	12222.7	12222.7	12222.7	12222.7	12222.7	12222.7	12222.7
2.5°	12238.4	12029.4	11836.1	11480.7	11094.0	10984.3	10534.9	10372.9	10257.9	10122.0	10080.2
5°	12301.1	12024.2	11402.3	10686.4	10116.8	9385.2	8904.5	8387.1	8010.9	7916.8	7890.7
7.5°	12431.8	11956.2	10885.0	9803.3	8638.0	7645.1	6887.4	6479.8	6119.2	6098.3	6061.7
10°	12578.1	11752.4	10320.6	8622.3	7133.0	6213.3	5758.6	5581.0	5492.1	5471.2	5460.8
12.5°	12698.3	11710.6	9688.3	7472.6	6067.0	5513.0	5377.2	5361.5	5398.1	5408.5	5429.4
15°	12750.5	11543.4	8925.4	6443.2	5403.3	5199.5	5257.0	5319.7	5345.8	5413.8	5361.5
17.5°	12849.8	11329.2	7984.8	5628.0	5032.3	5068.9	5168.1	5241.3	5283.1	5330.1	5262.2
20°	12902.1	11135.8	7101.6	5142.0	4901.6	4969.6	5105.4	5162.9	5215.2	5236.1	5157.7
22.5°	12855.0	10738.7	6323.0	4750.1	4776.2	4865.1	4985.3	5048.0	5016.6	4933.0	4886.0
25°	12729.6	10179.5	5513.0	4499.3	4598.6	4755.3	4849.4	4802.4	4744.9	4697.8	4682.2
27.5°	12724.4	9495.0	4927.8	4269.3	4447.0	4661.3	4629.9	4588.1	4614.2	4577.7	4535.8
30°	12750.5	8831.3	4447.0	4138.7	4337.3	4441.8	4478.4	4436.6	4467.9	4400.0	4420.9
32.5°	12614.7	8183.3	4133.5	3987.2	4206.6	4201.4	4321.6	4352.9	4279.8	4138.7	4159.6
35°	12672.2	7660.8	3867.0	3919.2	4060.3	4060.3	4154.4	4117.8	3924.4	3840.8	3861.7
37.5°	13069.3	7148.7	3736.3	3825.2	3919.2	3961.0	3929.7	3772.9	3725.9	3725.9	3736.3
40°	13445.5	6709.7	3657.9	3804.3	3788.6	3814.7	3584.8	3600.5	3600.5	3605.7	3579.6
42.5°	13780.0	6411.8	3595.2	3678.8	3705.0	3569.1	3428.0	3412.3	3448.9	3443.7	3422.8
45°	13900.2	6166.2	3506.4	3537.8	3558.7	3334.0	3266.0	3234.7	3276.5	3292.1	3313.0
47.5°	13440.3	5962.4	3407.1	3344.4	3302.6	3156.3	3067.4	3010.0	3062.2	3151.1	3172.0
50°	12849.8	5695.9	3250.3	3130.2	3041.3	2978.6	2915.9	2858.4	2895.0	2957.7	2942.0
52.5°	11977.1	5277.9	3051.8	2926.4	2774.8	2790.5	2733.0	2701.7	2722.6	2722.6	2706.9
55°	10733.4	4337.3	2717.3	2628.5	2503.1	2544.9	2555.3	2513.5	2471.7	2508.3	2476.9
57.5°	7326.3	3062.2	2424.7	2424.7	2299.3	2356.8	2351.5	2252.2	2153.0	2163.4	2142.5
60°	4238.0	2440.4	2236.6	2215.7	2085.0	2132.1	2142.5	2074.6	1923.0	1933.5	1912.6
62.5°	2409.0	2085.0	1954.4	1923.0	1896.9	1938.7	1938.7	1849.9	1719.2	1729.7	1708.8
65°	2048.4	1933.5	1745.4	1740.1	1729.7	1740.1	1698.3	1604.3	1489.3	1442.3	1447.5
67.5°	1860.3	1787.2	1604.3	1557.2	1525.9	1520.7	1442.3	1353.4	1301.2	1259.4	1254.2
70°	1630.4	1572.9	1437.0	1374.3	1343.0	1269.8	1191.4	1134.0	1060.8	1039.9	1060.8
72.5°	1290.7	1285.5	1233.2	1165.3	1097.4	1039.9	972.0	893.6	825.6	810.0	773.4
75°	893.6	904.0	914.5	904.0	846.6	773.4	695.0	632.3	548.7	501.7	491.2
77.5°	585.3	600.9	616.6	595.7	559.1	491.2	439.0	360.6	297.9	261.3	256.1
80°	428.5	449.4	459.9	444.2	402.4	350.1	292.6	229.9	182.9	151.5	151.5
82.5°	329.2	350.1	360.6	334.4	292.6	250.8	209.0	162.0	125.4	99.3	94.1
85°	115.0	109.7	130.6	135.9	162.0	151.5	125.4	94.1	73.2	52.3	47.0
87.5°	31.4	31.4	36.6	36.6	31.4	26.1	26.1	26.1	20.9	15.7	15.7
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)