

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: P529150

Luminaire Tested: **GALN-SA4B-735-U-T2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529150
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-SA4B-735-U-T2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 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: 17589 lumens
Efficiency: N/A
Efficacy: 107.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

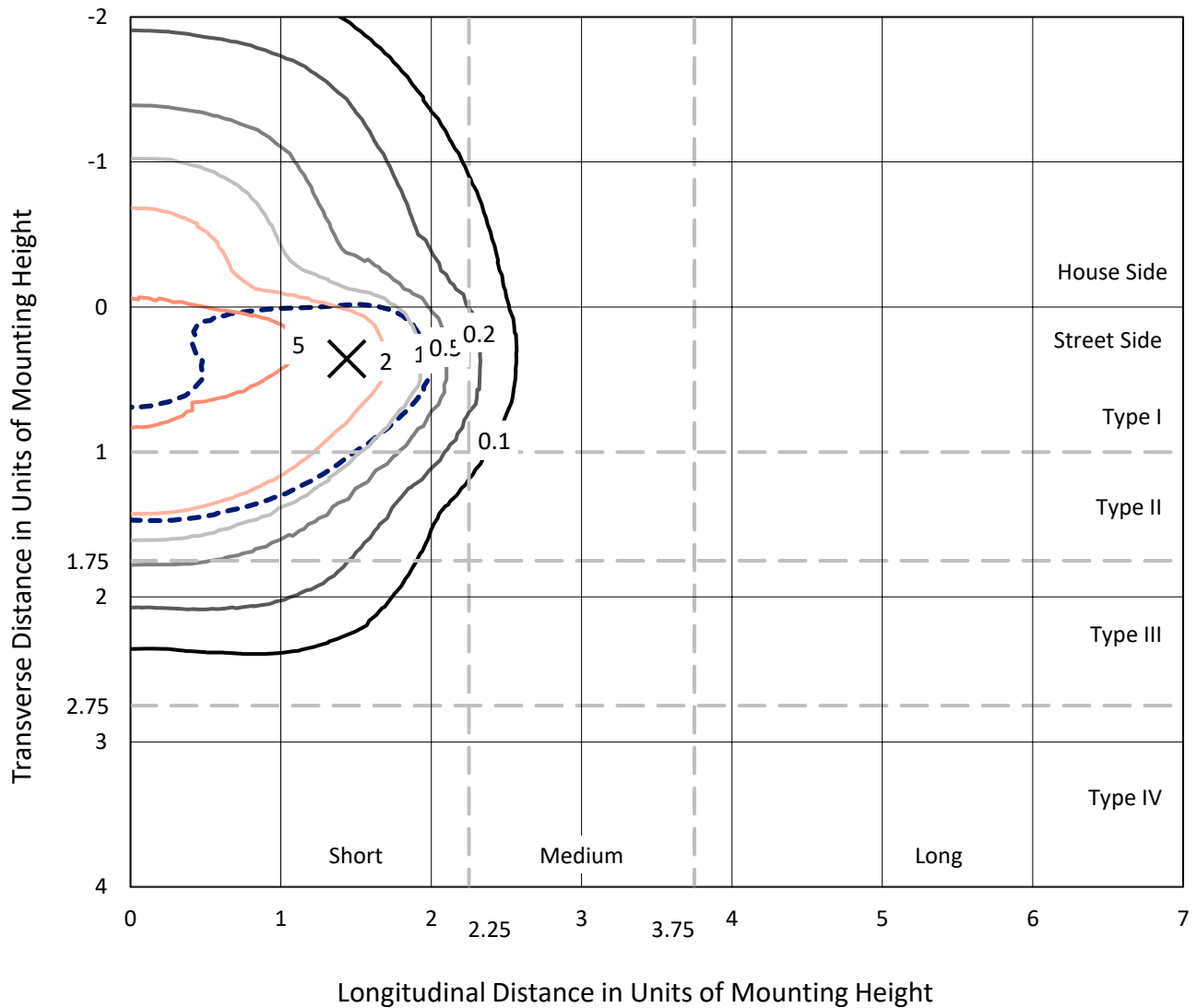
Input Watts (W): 164
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

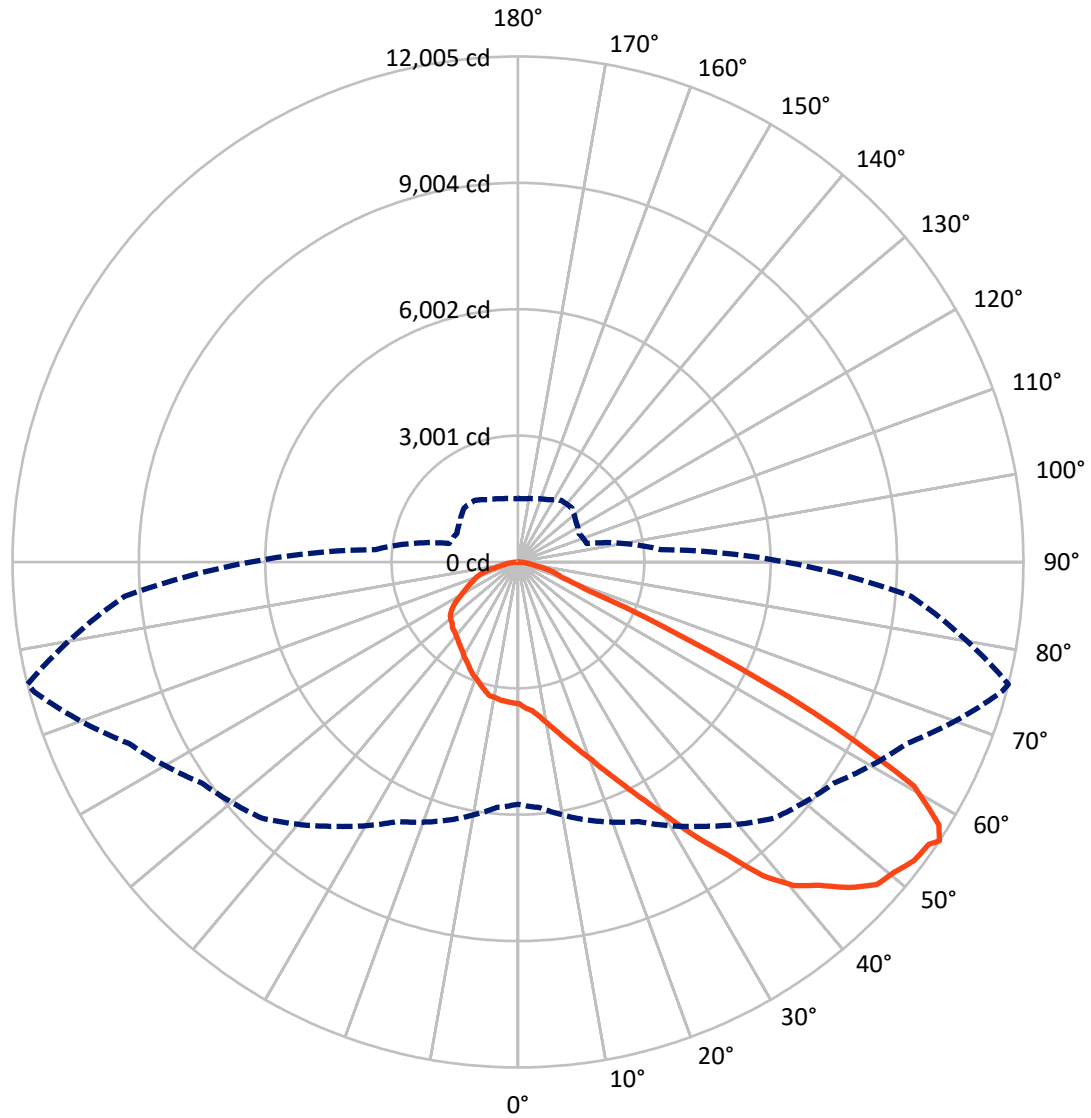
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.5 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	4729.2	0.0	4729.2
	% Fixture	26.9	0.0	26.9
Street Side	Lumens	12859.8	0.0	12859.8
	% Fixture	73.1	0.0	73.1
Total	Lumens	17589.0	0.0	17589.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	333.7	1.9
10°-20°	1048.4	6.0
20°-30°	1833.5	10.4
30°-40°	2870.8	16.3
40°-50°	4176.2	23.7
50°-60°	4589.9	26.1
60°-70°	2048.7	11.6
70°-80°	591.8	3.4
80°-90°	96.0	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°	17589.0	100.0
0°-180°	17589.0	100.0

Coefficient of Utilization

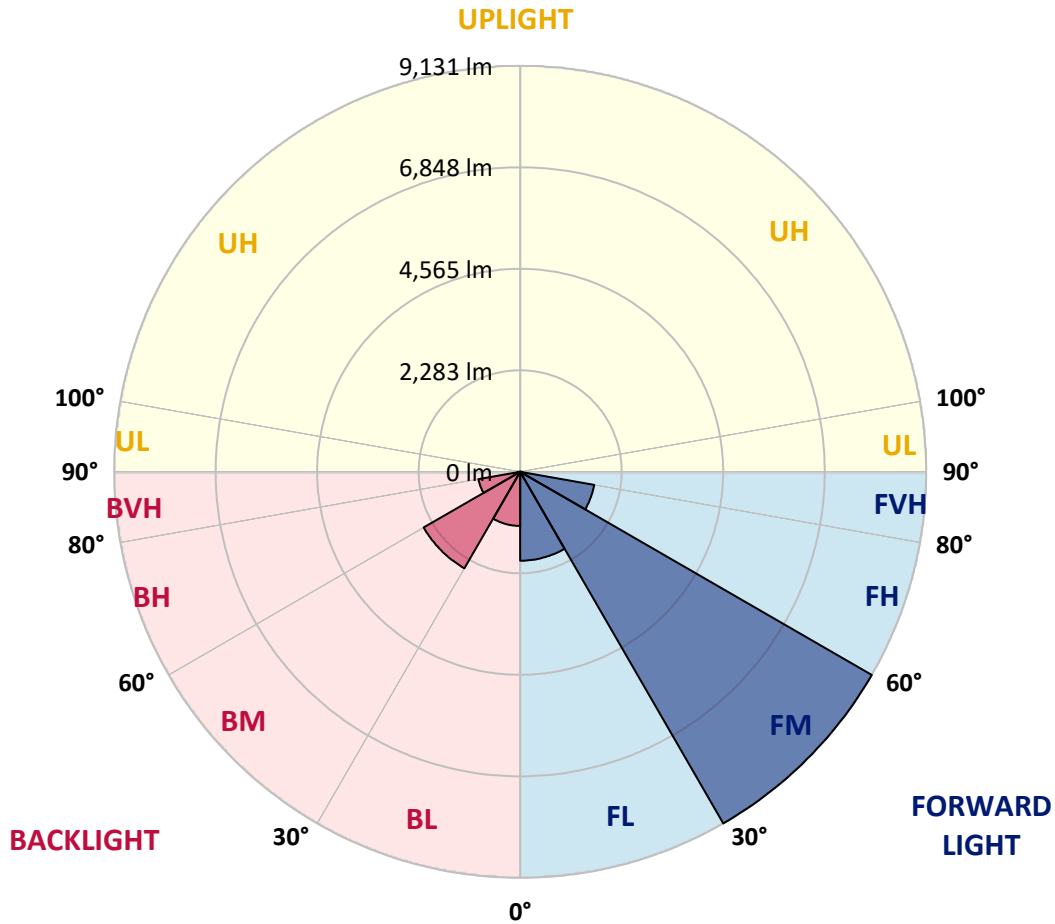


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1998.8	11.4			
FM (30°-60°)	9130.8	51.9			
FH (60°-80°)	1689.0	9.6			G1/1800
FVH (80°-90°)	41.3	0.2			G1/100
BL (0°-30°)	1216.9	6.9	B3/2500		
BM (30°-60°)	2506.1	14.2	B3/5000		
BH (60°-80°)	951.5	5.4	B2/1000		G2/1000
BVH (80°-90°)	54.7	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-G2
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	3365.4	3365.4	3365.4	3365.4	3365.4	3365.4	3365.4	3365.4	3365.4	3365.4	3365.4
2.5°	3707.4	3648.2	3643.6	3627.6	3636.8	3595.7	3552.4	3495.4	3436.1	3472.6	3386.0
5°	3967.4	3887.6	3919.5	3864.8	3871.6	3816.9	3728.0	3661.8	3588.9	3545.6	3484.0
7.5°	4058.6	4065.4	4088.2	4079.1	4033.5	4033.5	3974.2	3857.9	3730.2	3705.2	3602.6
10°	4181.7	4184.0	4158.9	4165.7	4229.6	4199.9	4147.5	4097.3	3933.2	3903.5	3721.1
12.5°	4225.0	4184.0	4225.0	4261.5	4336.8	4377.8	4366.4	4329.9	4154.3	4133.8	3867.1
15°	4231.9	4206.8	4241.0	4323.1	4389.2	4562.5	4649.1	4624.0	4391.5	4393.8	4031.2
17.5°	4199.9	4234.1	4247.8	4318.5	4471.3	4633.2	4884.0	4918.2	4726.6	4697.0	4238.7
20°	4243.3	4218.2	4236.4	4300.3	4503.2	4756.3	5084.6	5310.4	5041.3	5020.8	4453.0
22.5°	4409.7	4375.5	4371.0	4412.0	4557.9	4820.1	5296.7	5702.5	5424.4	5435.8	4719.8
25°	4539.7	4557.9	4542.0	4539.7	4630.9	4915.9	5577.1	6170.0	5944.2	5878.1	5034.5
27.5°	4763.1	4806.5	4774.5	4817.9	4797.3	5059.5	5777.8	6687.5	6505.1	6416.2	5319.5
30°	5073.2	5096.0	5066.4	5066.4	5004.8	5260.2	5960.2	7227.9	7152.7	7031.8	5654.7
32.5°	5481.4	5515.6	5456.3	5422.1	5413.0	5558.9	6288.5	7761.5	7889.1	7786.5	6099.3
35°	6021.7	6001.2	5930.5	5898.6	5775.5	6017.2	6776.5	8374.8	8710.0	8527.6	6637.4
37.5°	6498.3	6466.4	6461.8	6284.0	6313.6	6512.0	7191.4	8840.0	9505.7	9453.3	7205.1
40°	6942.9	6972.5	7020.4	6920.1	6874.5	7093.4	7674.8	9195.6	10123.6	10103.1	7642.9
42.5°	7419.4	7392.1	7476.5	7392.1	7323.7	7633.8	8199.2	9441.9	10666.3	10497.6	8101.2
45°	8110.3	8023.7	8053.3	8060.2	8010.0	8124.0	8415.9	9619.7	11047.1	11028.8	8436.4
47.5°	8687.2	8689.5	8639.3	8600.5	8447.8	8561.8	8657.5	9731.5	11484.9	11455.2	8566.3
50°	8901.5	8871.9	9017.8	9102.2	9111.3	8878.7	8846.8	9793.0	11715.2	11585.2	8696.3
52.5°	8130.8	8158.2	8388.5	8890.1	9179.7	9204.8	9068.0	9920.7	11808.6	11781.3	8801.2
55°	6543.9	6676.1	7054.6	7633.8	8320.1	9074.8	9307.4	10053.0	11858.8	11836.0	9266.3
56°	5752.7	5855.3	6347.8	6801.5	7663.4	8602.8	9156.9	10194.3	11897.6	12004.7	9375.8
57.5°	4630.9	4749.5	5102.9	5618.2	6635.1	7704.5	8741.9	10021.0	11747.1	11788.1	9455.6
60°	2895.7	2907.1	3331.2	3671.0	4386.9	5431.2	6671.6	8719.1	10871.5	10812.2	8493.4
62.5°	1899.3	1901.6	2286.9	2565.1	2891.2	3130.6	3926.3	5782.3	8021.4	7916.5	6046.8
65°	1333.9	1363.5	1662.2	2033.9	2166.1	2040.7	2015.6	3048.5	4480.4	4329.9	3249.1
67.5°	975.9	978.2	1242.7	1641.7	1833.2	1552.7	1260.9	1488.9	1773.9	1769.4	1504.9
70°	645.3	672.6	875.6	1226.7	1445.6	1247.2	1030.6	1064.8	1128.7	1128.7	1119.5
72.5°	376.2	401.3	535.8	777.5	811.7	779.8	816.3	912.0	953.1	950.8	939.4
75°	214.3	225.7	255.4	323.8	403.6	476.5	599.7	690.9	731.9	757.0	727.4
77.5°	125.4	132.2	150.5	184.7	209.8	257.7	326.1	389.9	444.6	437.8	442.3
80°	66.1	66.1	84.4	109.4	145.9	182.4	216.6	253.1	282.7	289.6	296.4
82.5°	38.8	41.0	54.7	79.8	104.9	130.0	166.4	191.5	218.9	221.2	225.7
85°	20.5	22.8	34.2	52.4	70.7	79.8	82.1	77.5	84.4	79.8	91.2
87.5°	6.8	6.8	11.4	9.1	9.1	11.4	13.7	13.7	18.2	18.2	18.2
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°	3365.4	3365.4	3365.4	3365.4	3365.4	3365.4	3365.4	3365.4	3365.4	3365.4	3365.4
2.5°	3383.7	3383.7	3344.9	3271.9	3260.5	3230.9	3203.5	3201.3	3180.7	3162.5	3153.4
5°	3447.5	3376.8	3319.8	3253.7	3176.2	3139.7	3098.7	3053.1	3034.8	3053.1	3050.8
7.5°	3520.5	3461.2	3290.2	3167.1	3078.1	3041.7	2996.1	2948.2	2952.7	2952.7	2920.8
10°	3591.2	3511.4	3237.7	3080.4	2950.5	2923.1	2898.0	2916.2	2939.1	2943.6	2923.1
12.5°	3709.7	3529.6	3212.7	2993.8	2911.7	2852.4	2868.4	2918.5	2966.4	2952.7	2968.7
15°	3798.6	3545.6	3098.7	2904.8	2802.2	2829.6	2886.6	2920.8	3000.6	2991.5	3007.5
17.5°	3885.3	3554.7	2986.9	2786.3	2743.0	2818.2	2861.5	2959.6	2984.7	3039.4	3059.9
20°	4063.1	3572.9	2872.9	2713.3	2699.6	2786.3	2861.5	2907.1	2961.9	3009.7	3009.7
22.5°	4154.3	3563.8	2797.7	2617.6	2660.9	2715.6	2784.0	2861.5	2861.5	2907.1	2909.4
25°	4268.3	3527.3	2679.1	2572.0	2603.9	2656.3	2733.8	2706.5	2736.1	2736.1	2772.6
27.5°	4398.3	3449.8	2576.5	2489.9	2553.7	2610.7	2622.1	2603.9	2569.7	2565.1	2551.4
30°	4503.2	3354.0	2501.3	2462.5	2515.0	2546.9	2510.4	2471.6	2412.3	2407.8	2375.9
32.5°	4646.8	3235.5	2407.8	2394.1	2453.4	2455.7	2444.3	2385.0	2298.3	2261.9	2225.4
35°	4888.5	3167.1	2337.1	2357.6	2375.9	2369.0	2348.5	2284.7	2198.0	2182.1	2168.4
37.5°	5066.4	3116.9	2264.1	2289.2	2305.2	2314.3	2252.7	2182.1	2184.3	2152.4	2143.3
40°	5267.0	3085.0	2204.9	2216.3	2218.5	2248.2	2172.9	2138.7	2154.7	2134.2	2147.9
42.5°	5524.7	3094.1	2143.3	2134.2	2177.5	2166.1	2129.6	2084.0	2093.1	2031.6	2040.7
45°	5661.5	3155.7	2106.8	2065.8	2113.7	2111.4	2063.5	2020.2	1965.4	1846.9	1851.4
47.5°	5752.7	3171.6	2020.2	1992.8	2043.0	2072.6	2017.9	1917.6	1840.0	1755.7	1735.2
50°	5846.2	3201.3	1979.1	1922.1	1942.6	2013.3	1944.9	1849.2	1773.9	1698.7	1710.1
52.5°	5928.3	3258.3	1899.3	1815.0	1851.4	1929.0	1892.5	1776.2	1694.1	1632.6	1614.3
55°	6293.1	3386.0	1764.8	1655.4	1742.0	1840.0	1819.5	1678.2	1589.2	1557.3	1552.7
56°	6350.1	3390.5	1694.1	1600.6	1680.4	1810.4	1785.3	1634.8	1555.0	1504.9	1507.1
57.5°	6359.2	3335.8	1593.8	1550.5	1618.9	1767.1	1735.2	1600.6	1491.2	1445.6	1431.9
60°	5595.4	2603.9	1468.4	1441.0	1520.8	1634.8	1623.4	1507.1	1384.0	1331.6	1356.7
62.5°	3814.6	1908.4	1370.3	1365.8	1406.8	1518.5	1488.9	1384.0	1281.4	1247.2	1231.3
65°	2220.8	1447.9	1274.6	1256.3	1290.5	1349.8	1370.3	1260.9	1153.7	1130.9	1124.1
67.5°	1311.1	1197.1	1151.5	1121.8	1110.4	1146.9	1162.9	1099.0	991.8	959.9	987.3
70°	1096.7	1064.8	1067.1	1016.9	989.6	964.5	950.8	893.8	804.9	763.8	752.4
72.5°	946.2	932.6	923.4	877.8	852.8	795.8	736.5	679.5	613.3	579.1	581.4
75°	722.8	718.2	722.8	700.0	656.7	611.1	556.3	483.4	433.2	389.9	399.0
77.5°	430.9	444.6	451.5	442.3	424.1	383.1	348.9	301.0	253.1	218.9	214.3
80°	296.4	307.8	319.2	307.8	289.6	259.9	223.4	187.0	152.8	134.5	130.0
82.5°	225.7	237.1	244.0	232.6	209.8	177.8	152.8	127.7	100.3	82.1	77.5
85°	82.1	93.5	91.2	109.4	118.6	114.0	98.0	75.2	57.0	41.0	38.8
87.5°	22.8	20.5	22.8	22.8	22.8	20.5	18.2	18.2	18.2	11.4	9.1
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)