

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: P531880

Luminaire Tested: **GALN-SA7B-722-U-T2-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P531880  
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-SA7B-722-U-T2-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 70 CRI, 2200K, 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: 24438 lumens  
Efficiency: N/A  
Efficacy: 85.4 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

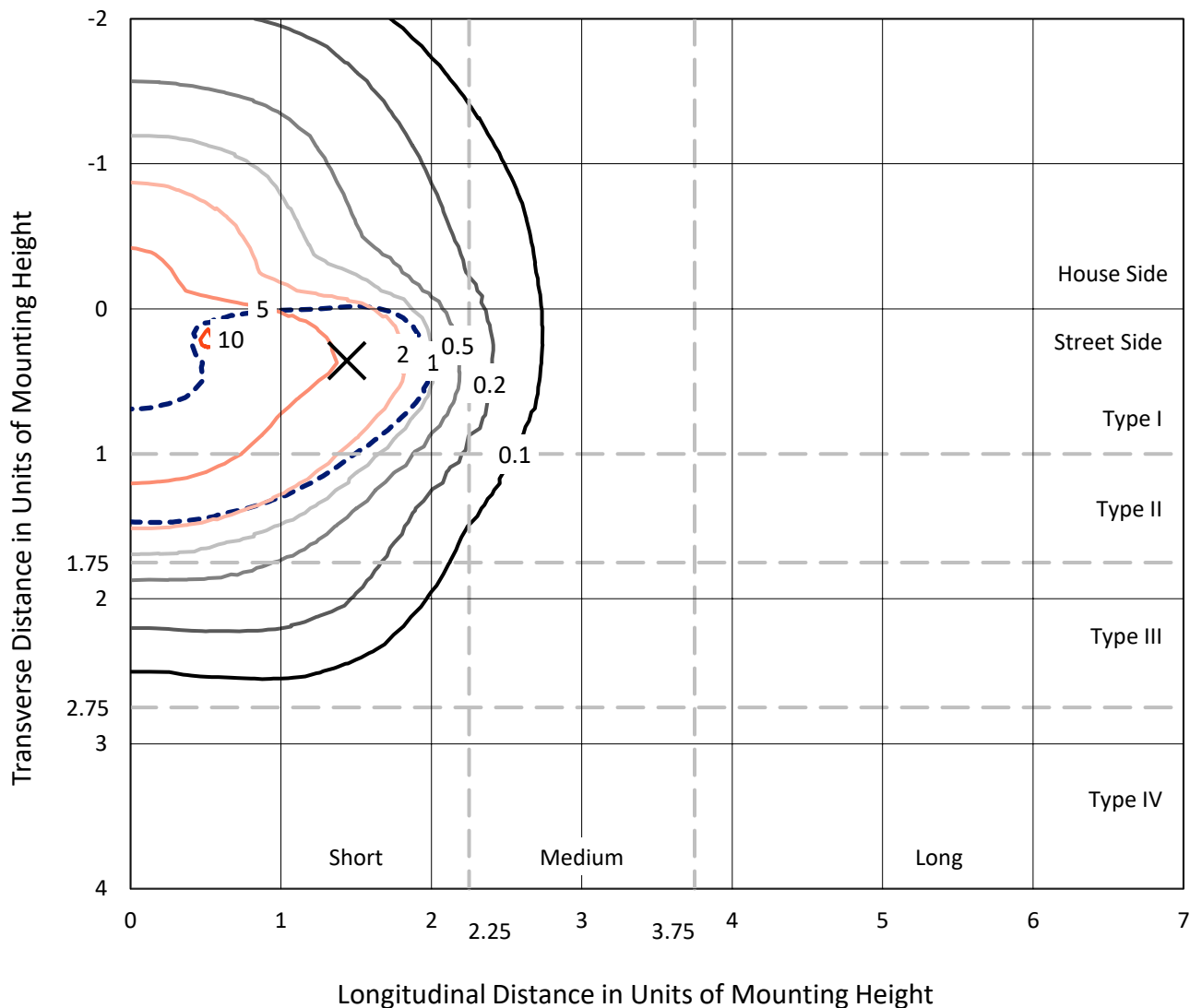
Input Watts (W): 286  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

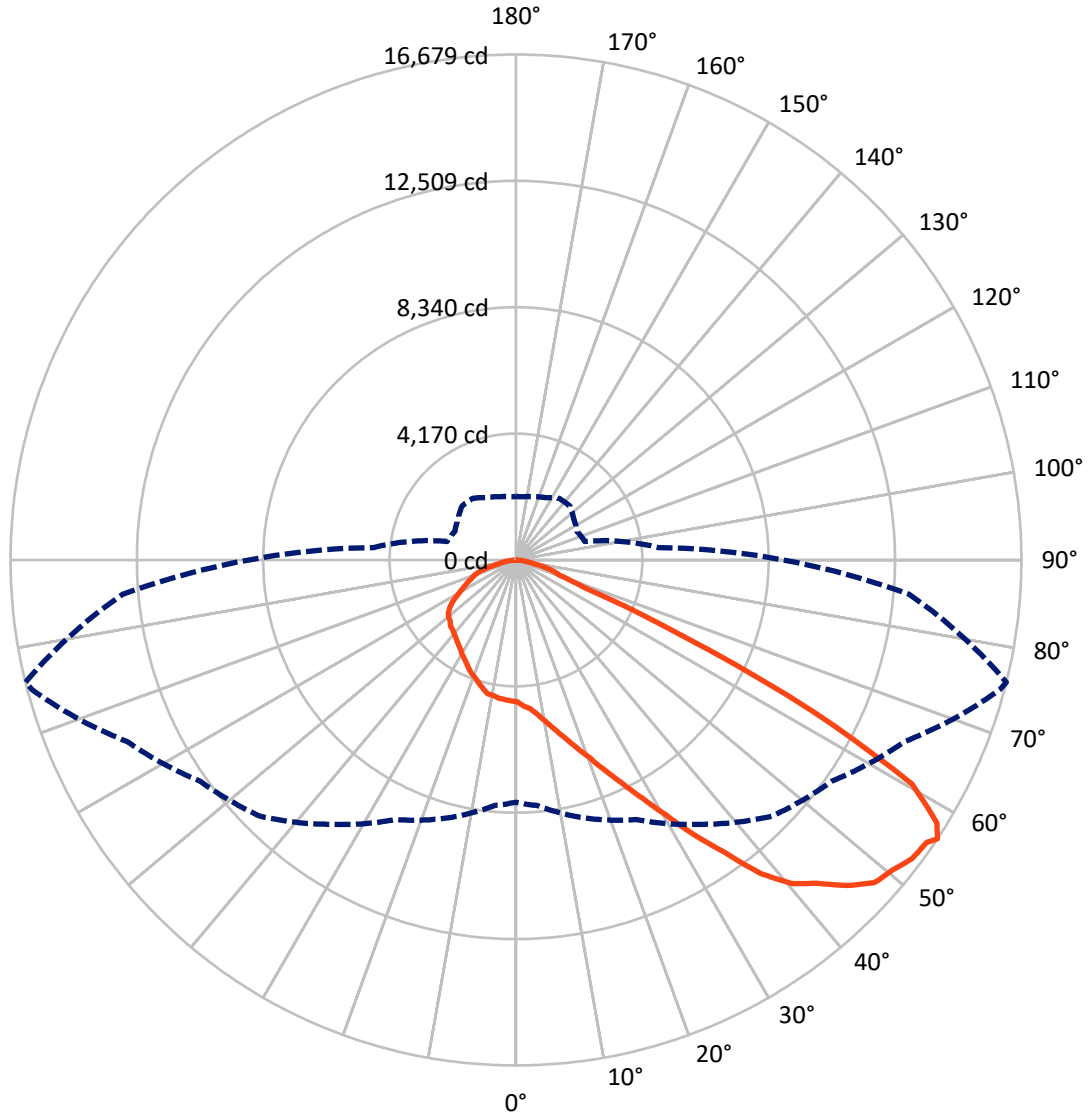
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.4 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
<b>House Side</b>	Lumens	6570.6	0.0	6570.6
	% Fixture	26.9	0.0	26.9
<b>Street Side</b>	Lumens	17867.4	0.0	17867.4
	% Fixture	73.1	0.0	73.1
<b>Total</b>	Lumens	24438.0	0.0	24438.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	463.7	1.9
10°-20°	1456.6	6.0
20°-30°	2547.5	10.4
30°-40°	3988.6	16.3
40°-50°	5802.3	23.7
50°-60°	6377.1	26.1
60°-70°	2846.5	11.6
70°-80°	822.2	3.4
80°-90°	133.4	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°	24438.0	100.0
0°-180°	24438.0	100.0

**Coefficient of Utilization**



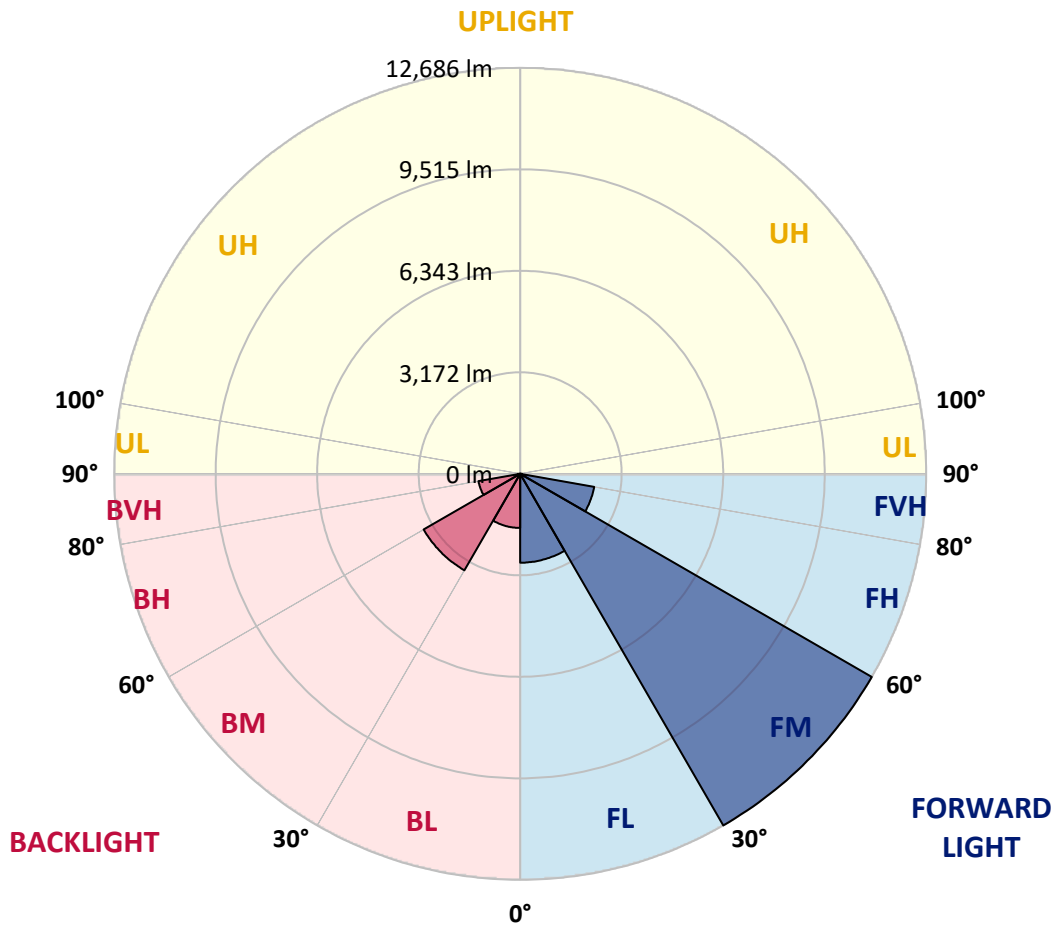
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2777.1	11.4			
FM (30°-60°)	12686.2	51.9			
FH (60°-80°)	2346.6	9.6			G2/5000
FVH (80°-90°)	57.4	0.2			G1/100
BL (0°-30°)	1690.8	6.9	B3/2500		
BM (30°-60°)	3481.9	14.2	B3/5000		
BH (60°-80°)	1322.0	5.4	B3/2500		G3/2500
BVH (80°-90°)	76.0	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°	4675.9	4675.9	4675.9	4675.9	4675.9	4675.9	4675.9	4675.9	4675.9	4675.9	4675.9
2.5°	5151.1	5068.7	5062.4	5040.2	5052.9	4995.9	4935.7	4856.5	4774.1	4824.8	4704.4
5°	5512.2	5401.4	5445.7	5369.7	5379.2	5303.2	5179.6	5087.7	4986.4	4926.2	4840.6
7.5°	5639.0	5648.5	5680.1	5667.5	5604.1	5604.1	5521.7	5360.2	5182.8	5147.9	5005.4
10°	5810.0	5813.2	5778.3	5787.8	5876.6	5835.4	5762.5	5692.8	5464.7	5423.5	5170.1
12.5°	5870.2	5813.2	5870.2	5920.9	6025.4	6082.5	6066.6	6015.9	5772.0	5743.5	5372.8
15°	5879.7	5844.9	5892.4	6006.4	6098.3	6339.1	6459.5	6424.6	6101.5	6104.6	5600.9
17.5°	5835.4	5882.9	5901.9	6000.1	6212.4	6437.3	6785.8	6833.3	6567.2	6526.0	5889.2
20°	5895.6	5860.7	5886.1	5974.8	6256.7	6608.3	7064.5	7378.2	7004.3	6975.8	6187.0
22.5°	6126.8	6079.3	6073.0	6130.0	6332.7	6697.1	7359.2	7923.0	7536.6	7552.4	6557.7
25°	6307.4	6332.7	6310.6	6307.4	6434.1	6830.1	7748.8	8572.5	8258.9	8167.0	6994.8
27.5°	6617.9	6678.0	6633.7	6693.9	6665.4	7029.7	8027.6	9291.6	9038.2	8914.6	7390.8
30°	7048.7	7080.4	7039.2	7039.2	6953.7	7308.5	8281.0	10042.4	9937.9	9770.0	7856.5
32.5°	7615.8	7663.3	7580.9	7533.4	7520.7	7723.5	8737.2	10783.7	10961.1	10818.6	8474.3
35°	8366.6	8338.1	8239.8	8195.5	8024.4	8360.2	9415.2	11635.9	12101.6	11848.1	9221.9
37.5°	9028.7	8984.3	8978.0	8730.9	8772.1	9047.7	9991.7	12282.2	13207.2	13134.3	10010.7
40°	9646.4	9687.6	9754.1	9614.7	9551.4	9855.5	10663.3	12776.4	14065.7	14037.2	10619.0
42.5°	10308.5	10270.5	10387.7	10270.5	10175.5	10606.3	11392.0	13118.5	14819.7	14585.3	11255.7
45°	11268.4	11148.0	11189.2	11198.7	11129.0	11287.4	11692.9	13365.6	15348.7	15323.4	11721.4
47.5°	12069.9	12073.1	12003.4	11949.5	11737.3	11895.7	12028.7	13520.8	15957.0	15915.8	11902.0
50°	12367.7	12326.5	12529.3	12646.5	12659.1	12336.0	12291.7	13606.4	16276.9	16096.4	12082.6
52.5°	11296.9	11334.9	11654.9	12351.8	12754.2	12789.0	12598.9	13783.8	16406.8	16368.8	12228.3
55°	9092.0	9275.8	9801.6	10606.3	11559.9	12608.4	12931.6	13967.5	16476.5	16444.8	12874.6
56°	7992.7	8135.3	8819.6	9450.0	10647.5	11952.7	12722.5	14163.9	16530.4	16679.3	13026.6
57.5°	6434.1	6598.8	7089.9	7805.8	9218.7	10704.5	12145.9	13923.2	16321.3	16378.3	13137.5
60°	4023.3	4039.1	4628.4	5100.4	6095.1	7546.1	9269.4	12114.2	15104.8	15022.4	11800.6
62.5°	2638.9	2642.1	3177.5	3563.9	4017.0	4349.6	5455.2	8033.9	11144.9	10999.1	8401.4
65°	1853.3	1894.4	2309.4	2825.8	3009.6	2835.3	2800.5	4235.6	6225.0	6015.9	4514.3
67.5°	1355.9	1359.1	1726.5	2280.9	2547.0	2157.4	1751.9	2068.7	2464.7	2458.3	2090.8
70°	896.5	934.5	1216.5	1704.4	2008.5	1732.9	1431.9	1479.4	1568.1	1568.1	1555.5
72.5°	522.7	557.6	744.5	1080.3	1127.8	1083.4	1134.1	1267.2	1324.2	1321.0	1305.2
75°	297.8	313.6	354.8	449.8	560.7	662.1	833.2	959.9	1016.9	1051.8	1010.6
77.5°	174.2	183.7	209.1	256.6	291.5	358.0	453.0	541.7	617.8	608.2	614.6
80°	91.9	91.9	117.2	152.1	202.7	253.4	301.0	351.6	392.8	402.3	411.8
82.5°	53.9	57.0	76.0	110.9	145.7	180.6	231.3	266.1	304.1	307.3	313.6
85°	28.5	31.7	47.5	72.9	98.2	110.9	114.0	107.7	117.2	110.9	126.7
87.5°	9.5	9.5	15.8	12.7	12.7	15.8	19.0	19.0	25.3	25.3	25.3
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°	4675.9	4675.9	4675.9	4675.9	4675.9	4675.9	4675.9	4675.9	4675.9	4675.9	4675.9
2.5°	4701.2	4701.2	4647.4	4546.0	4530.2	4489.0	4451.0	4447.8	4419.3	4393.9	4381.3
5°	4789.9	4691.7	4612.5	4520.7	4413.0	4362.3	4305.2	4241.9	4216.5	4241.9	4238.7
7.5°	4891.3	4809.0	4571.4	4400.3	4276.7	4226.0	4162.7	4096.2	4102.5	4102.5	4058.1
10°	4989.5	4878.6	4498.5	4279.9	4099.3	4061.3	4026.5	4051.8	4083.5	4089.8	4061.3
12.5°	5154.3	4904.0	4463.6	4159.5	4045.5	3963.1	3985.3	4055.0	4121.5	4102.5	4124.7
15°	5277.8	4926.2	4305.2	4036.0	3893.4	3931.4	4010.6	4058.1	4169.0	4156.4	4178.5
17.5°	5398.2	4938.8	4150.0	3871.2	3811.0	3915.6	3975.8	4112.0	4146.8	4222.9	4251.4
20°	5645.3	4964.2	3991.6	3769.9	3750.9	3871.2	3975.8	4039.1	4115.2	4181.7	4181.7
22.5°	5772.0	4951.5	3887.1	3636.8	3697.0	3773.0	3868.1	3975.8	3975.8	4039.1	4042.3
25°	5930.4	4900.8	3722.3	3573.5	3617.8	3690.7	3798.4	3760.4	3801.5	3801.5	3852.2
27.5°	6111.0	4793.1	3579.8	3459.4	3548.1	3627.3	3643.1	3617.8	3570.3	3563.9	3544.9
30°	6256.7	4660.1	3475.2	3421.4	3494.3	3538.6	3487.9	3434.1	3351.7	3345.4	3301.0
32.5°	6456.3	4495.3	3345.4	3326.3	3408.7	3411.9	3396.0	3313.7	3193.3	3142.6	3091.9
35°	6792.1	4400.3	3247.2	3275.7	3301.0	3291.5	3263.0	3174.3	3053.9	3031.7	3012.7
37.5°	7039.2	4330.6	3145.8	3180.6	3202.8	3215.5	3129.9	3031.7	3034.9	2990.5	2977.9
40°	7318.0	4286.2	3063.4	3079.2	3082.4	3123.6	3019.1	2971.5	2993.7	2965.2	2984.2
42.5°	7675.9	4298.9	2977.9	2965.2	3025.4	3009.6	2958.9	2895.5	2908.2	2822.6	2835.3
45°	7866.0	4384.4	2927.2	2870.2	2936.7	2933.5	2867.0	2806.8	2730.8	2566.0	2572.4
47.5°	7992.7	4406.6	2806.8	2768.8	2838.5	2879.7	2803.6	2664.2	2556.5	2439.3	2410.8
50°	8122.6	4447.8	2749.8	2670.6	2699.1	2797.3	2702.3	2569.2	2464.7	2360.1	2376.0
52.5°	8236.7	4527.0	2638.9	2521.7	2572.4	2680.1	2629.4	2467.8	2353.8	2268.3	2242.9
55°	8743.5	4704.4	2452.0	2299.9	2420.3	2556.5	2528.0	2331.6	2208.1	2163.7	2157.4
56°	8822.7	4710.7	2353.8	2223.9	2334.8	2515.4	2480.5	2271.4	2160.5	2090.8	2094.0
57.5°	8835.4	4634.7	2214.4	2154.2	2249.2	2455.2	2410.8	2223.9	2071.8	2008.5	1989.5
60°	7774.2	3617.8	2040.2	2002.1	2113.0	2271.4	2255.6	2094.0	1922.9	1850.1	1884.9
62.5°	5300.0	2651.6	1903.9	1897.6	1954.6	2109.9	2068.7	1922.9	1780.4	1732.9	1710.7
65°	3085.6	2011.6	1770.9	1745.5	1793.1	1875.4	1903.9	1751.9	1603.0	1571.3	1561.8
67.5°	1821.6	1663.2	1599.8	1558.6	1542.8	1593.5	1615.7	1527.0	1378.1	1333.7	1371.7
70°	1523.8	1479.4	1482.6	1412.9	1374.9	1340.0	1321.0	1241.8	1118.3	1061.3	1045.4
72.5°	1314.7	1295.7	1283.0	1219.7	1184.8	1105.6	1023.2	944.0	852.2	804.7	807.8
75°	1004.2	997.9	1004.2	972.6	912.4	849.0	773.0	671.6	601.9	541.7	554.4
77.5°	598.7	617.8	627.3	614.6	589.2	532.2	484.7	418.2	351.6	304.1	297.8
80°	411.8	427.7	443.5	427.7	402.3	361.1	310.5	259.8	212.3	186.9	180.6
82.5°	313.6	329.5	339.0	323.1	291.5	247.1	212.3	177.4	139.4	114.0	107.7
85°	114.0	129.9	126.7	152.1	164.7	158.4	136.2	104.5	79.2	57.0	53.9
87.5°	31.7	28.5	31.7	31.7	31.7	28.5	25.3	25.3	25.3	15.8	12.7
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)