

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: P533779

Luminaire Tested: **GALN-SA9B-727-U-T2R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533779
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-9)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA9B-727-U-T2R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28532 lumens
Efficiency: N/A
Efficacy: 78.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B3 - U0 - G1

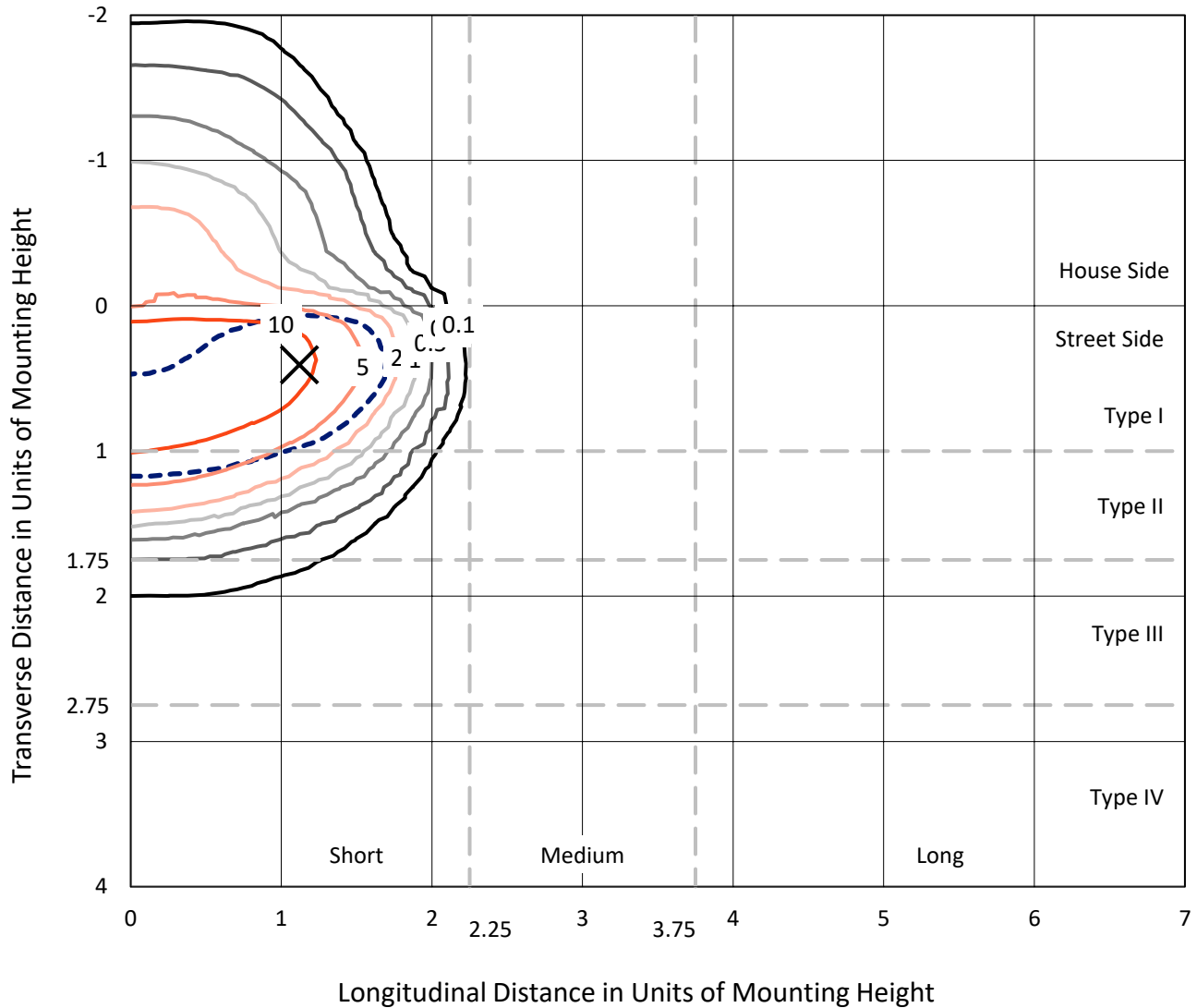
Input Watts (W): 364
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

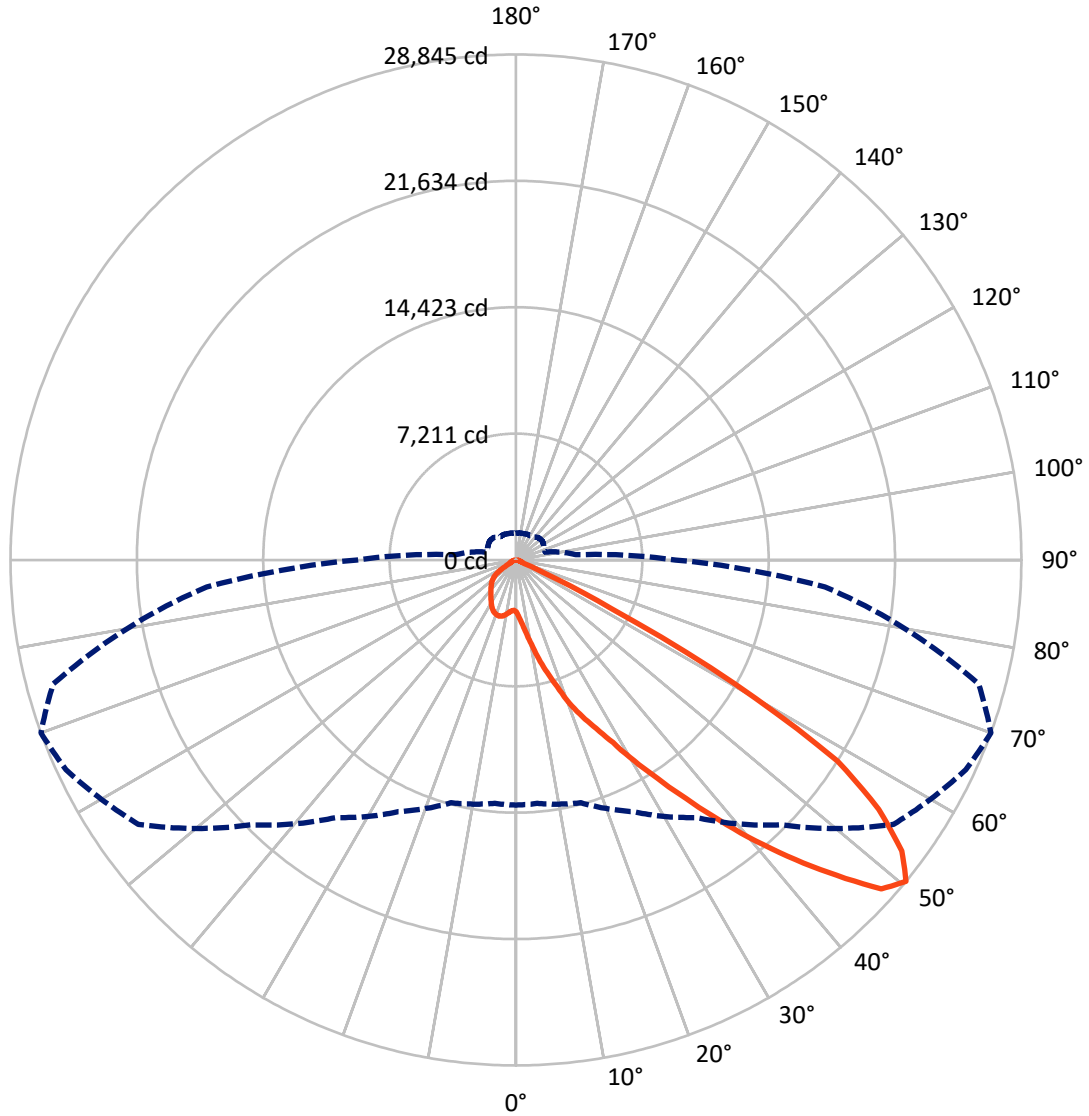
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.9 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 70-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3984.7	0.0	3984.7
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	24547.3	0.0	24547.3
	% Fixture	86.0	0.0	86.0
Total	Lumens	28532.0	0.0	28532.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	384.3	1.3
10°-20°	1662.4	5.8
20°-30°	3487.4	12.2
30°-40°	6011.0	21.1
40°-50°	8785.1	30.8
50°-60°	6842.1	24.0
60°-70°	1159.3	4.1
70°-80°	159.3	0.6
80°-90°	41.3	0.1
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°	28532.0	100.0
0°-180°	28532.0	100.0

Coefficient of Utilization



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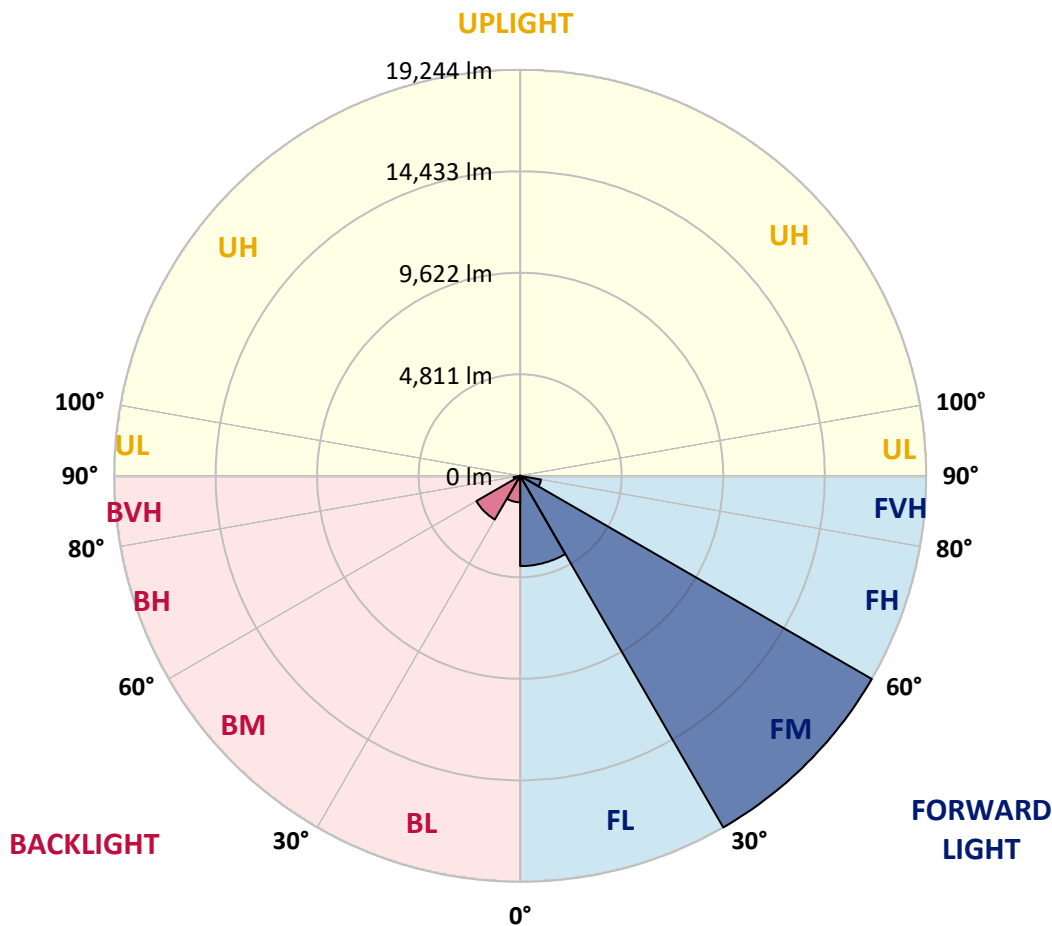
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4280.1	15.0			
FM (30°-60°)	19244.3	67.4			
FH (60°-80°)	1003.8	3.5			G1/1800
FVH (80°-90°)	19.1	0.1			G1/100
BL (0°-30°)	1253.9	4.4	B3/2500		
BM (30°-60°)	2393.9	8.4	B2/2500		
BH (60°-80°)	314.8	1.1	B1/500		G1/500
BVH (80°-90°)	22.2	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G1

Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	2955.4	2955.4	2955.4	2955.4	2955.4	2955.4	2955.4	2955.4	2955.4	2955.4	2955.4
2.5°	3870.1	3842.0	3781.0	3668.4	3621.5	3508.9	3443.2	3316.6	3236.8	3147.7	3049.2
5°	5451.0	5305.6	5216.4	5089.8	4719.2	4489.3	4109.3	3785.7	3635.6	3471.4	3246.2
7.5°	7083.5	6989.6	6867.7	6595.6	6342.3	5863.8	5211.7	4498.7	4193.8	3912.3	3466.7
10°	8434.5	8171.8	8157.7	7956.0	7679.2	7106.9	6323.5	5436.9	4892.8	4479.9	3781.0
12.5°	9377.4	9138.1	9246.0	9222.6	8964.6	8439.2	7533.8	6361.0	5793.4	5150.8	4104.7
15°	10235.8	10137.3	10104.5	10076.3	9973.1	9583.8	8772.2	7486.9	6666.0	5891.9	4470.6
17.5°	11075.5	10822.2	10944.2	10967.6	10958.3	10606.4	9846.5	8556.5	7590.1	6675.3	4855.2
20°	11821.4	11844.9	11680.7	11647.8	11619.7	11605.6	10864.4	9616.6	8725.3	7496.3	5357.2
22.5°	12778.4	12614.2	12759.6	12665.8	12482.8	12370.3	11802.6	10554.8	9710.4	8486.1	5868.5
25°	13908.9	14040.3	13697.8	13660.3	13458.6	13069.2	12557.9	11605.6	10658.0	9405.5	6422.0
27.5°	15302.2	15072.3	14983.2	14776.8	14410.9	14246.7	13646.2	12689.3	11802.6	10371.9	6956.8
30°	16498.4	16437.4	15991.7	15747.8	15428.8	15424.1	14584.4	14157.5	13294.4	11887.1	7693.3
32.5°	17474.1	17206.7	17042.5	16873.7	16615.7	16686.0	15977.7	15752.5	14884.7	13294.4	8561.1
35°	18126.2	17933.8	17835.3	17577.3	17502.3	17816.6	17521.0	17427.2	16714.2	15274.0	9579.1
37.5°	18332.6	18393.6	18374.8	18051.1	18210.6	19059.7	19439.7	19195.7	18820.4	17361.5	10681.5
40°	18515.5	18557.7	18463.9	18843.9	19298.9	20265.3	21639.8	21236.3	21095.6	19477.2	12215.5
42.5°	18618.7	18585.9	18585.9	19242.6	19932.2	21874.3	23764.8	23497.4	23389.5	21728.9	13988.7
45°	18173.1	17854.1	18196.5	19087.8	20476.4	22667.1	25462.9	25833.5	25678.7	24407.5	16062.1
47.5°	16507.8	16704.8	16897.1	18088.6	19814.9	22423.2	26504.4	27766.2	28052.4	26659.2	17422.5
50°	13988.7	13946.5	14345.2	15846.3	17943.2	21372.4	26302.6	28324.5	28845.2	27334.7	17708.7
52.5°	10174.9	10484.5	10916.0	12407.8	14894.0	18651.6	23699.1	26884.3	27578.6	26504.4	17521.0
55°	5924.8	5582.3	6553.4	7815.3	10160.8	14068.4	20035.4	23830.5	25115.8	24993.8	16573.4
57.5°	2373.7	2298.6	2631.7	3546.4	5300.9	8720.6	14570.4	19580.4	21639.8	22892.3	14565.7
60°	1041.4	1018.0	1196.2	1444.8	2167.3	4020.2	7970.1	12177.9	14326.4	15996.4	10024.7
62.5°	750.6	741.2	830.3	919.4	1144.6	1749.8	3349.4	4906.8	6117.1	7388.4	4489.3
65°	605.1	628.6	689.6	736.5	844.4	971.0	1182.1	1365.1	1674.7	1735.7	989.8
67.5°	492.6	511.3	567.6	619.2	638.0	525.4	544.2	478.5	478.5	426.9	342.4
70°	361.2	365.9	431.6	492.6	394.0	211.1	370.6	370.6	333.1	319.0	290.8
72.5°	267.4	272.1	323.7	304.9	154.8	131.3	272.1	300.2	272.1	258.0	234.6
75°	197.0	201.7	168.9	70.4	65.7	84.4	159.5	206.4	197.0	192.3	178.3
77.5°	37.5	28.1	23.5	32.8	46.9	70.4	103.2	126.7	131.3	140.7	131.3
80°	4.7	4.7	14.1	28.1	51.6	75.1	107.9	122.0	126.7	131.3	122.0
82.5°	0.0	4.7	14.1	28.1	51.6	70.4	93.8	107.9	117.3	122.0	117.3
85°	0.0	4.7	9.4	23.5	42.2	51.6	46.9	32.8	28.1	32.8	23.5
87.5°	0.0	0.0	4.7	4.7	9.4	9.4	9.4	9.4	9.4	9.4	9.4
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°	2955.4	2955.4	2955.4	2955.4	2955.4	2955.4	2955.4	2955.4	2955.4	2955.4	2955.4
2.5°	2992.9	2974.1	2908.4	2838.1	2777.1	2805.2	2777.1	2753.6	2763.0	2753.6	2744.3
5°	3157.1	3072.6	2931.9	2870.9	2819.3	2814.6	2800.5	2795.9	2800.5	2800.5	2758.3
7.5°	3311.9	3175.8	3025.7	2960.0	2899.1	2903.8	2870.9	2870.9	2866.2	2842.8	2833.4
10°	3546.4	3363.5	3171.1	3053.9	2978.8	2964.7	2931.9	2899.1	2899.1	2899.1	2852.2
12.5°	3804.4	3574.6	3311.9	3175.8	3086.7	3016.3	2964.7	2955.4	2903.8	2894.4	2870.9
15°	4029.6	3738.8	3405.7	3218.1	3105.5	3011.6	2931.9	2880.3	2856.8	2842.8	2824.0
17.5°	4250.1	3879.5	3457.3	3218.1	3096.1	2988.2	2903.8	2856.8	2800.5	2809.9	2772.4
20°	4545.6	4029.6	3471.4	3157.1	3007.0	2903.8	2791.2	2767.7	2734.9	2706.7	2716.1
22.5°	4831.8	4137.5	3429.1	3082.0	2866.2	2744.3	2688.0	2659.8	2645.7	2622.3	2589.5
25°	5089.8	4254.8	3363.5	2946.0	2716.1	2627.0	2575.4	2570.7	2537.9	2537.9	2476.9
27.5°	5352.5	4297.0	3250.9	2786.5	2584.8	2533.2	2509.7	2500.3	2486.2	2453.4	2411.2
30°	5652.7	4311.1	3086.7	2622.3	2467.5	2411.2	2444.0	2467.5	2406.5	2345.5	2364.3
32.5°	5901.3	4278.2	2889.7	2467.5	2383.0	2354.9	2420.6	2444.0	2373.7	2308.0	2275.2
35°	6201.6	4198.5	2697.3	2345.5	2298.6	2354.9	2411.2	2411.2	2270.5	2190.7	2172.0
37.5°	6656.6	4109.3	2519.1	2242.3	2209.5	2326.8	2401.8	2350.2	2129.7	2031.2	2007.8
40°	7144.4	4053.1	2345.5	2139.1	2162.6	2279.8	2322.1	2162.6	1937.4	1876.4	1857.7
42.5°	7852.8	3940.5	2190.7	2050.0	2120.3	2214.2	2214.2	1928.0	1843.6	1810.7	1806.0
45°	8734.7	3860.7	2054.7	1974.9	2059.4	2082.8	2007.8	1806.0	1745.1	1735.7	1740.4
47.5°	9166.3	3705.9	1913.9	1885.8	1946.8	1951.5	1754.4	1707.5	1655.9	1641.9	1632.5
50°	9100.6	3429.1	1731.0	1768.5	1853.0	1806.0	1599.6	1609.0	1562.1	1557.4	1534.0
52.5°	8640.9	2992.9	1548.0	1637.2	1731.0	1595.0	1473.0	1463.6	1463.6	1402.6	1379.2
55°	7660.5	2411.2	1327.6	1440.1	1552.7	1341.6	1308.8	1299.4	1276.0	1219.7	1205.6
57.5°	6065.5	1768.5	999.2	1121.2	1318.2	1139.9	1135.2	1093.0	1032.0	989.8	989.8
60°	3607.4	1018.0	628.6	684.9	872.5	924.1	1027.3	1008.6	905.4	839.7	820.9
62.5°	1646.6	525.4	398.7	408.1	469.1	600.5	806.9	933.5	788.1	675.5	666.1
65°	553.5	389.4	328.4	314.3	323.7	361.2	483.2	661.4	628.6	520.7	501.9
67.5°	337.8	347.1	309.6	286.2	286.2	281.5	276.8	300.2	370.6	361.2	365.9
70°	290.8	319.0	286.2	258.0	248.6	234.6	197.0	164.2	140.7	164.2	173.6
72.5°	234.6	253.3	243.9	220.5	197.0	178.3	140.7	107.9	79.7	70.4	70.4
75°	173.6	187.6	197.0	168.9	150.1	126.7	103.2	70.4	42.2	28.1	28.1
77.5°	126.7	140.7	145.4	131.3	112.6	89.1	65.7	46.9	23.5	9.4	9.4
80°	107.9	126.7	140.7	131.3	117.3	84.4	61.0	32.8	18.8	4.7	4.7
82.5°	103.2	126.7	140.7	126.7	112.6	79.7	61.0	37.5	14.1	4.7	4.7
85°	23.5	32.8	42.2	51.6	61.0	61.0	46.9	28.1	14.1	4.7	4.7
87.5°	9.4	9.4	9.4	9.4	9.4	9.4	9.4	9.4	4.7	4.7	0.0
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)