

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: P532197

Luminaire Tested: **GALN-SA7C-735-U-T3R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P532197
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-11)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA7C-735-U-T3R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27743 lumens
Efficiency: N/A
Efficacy: 73.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

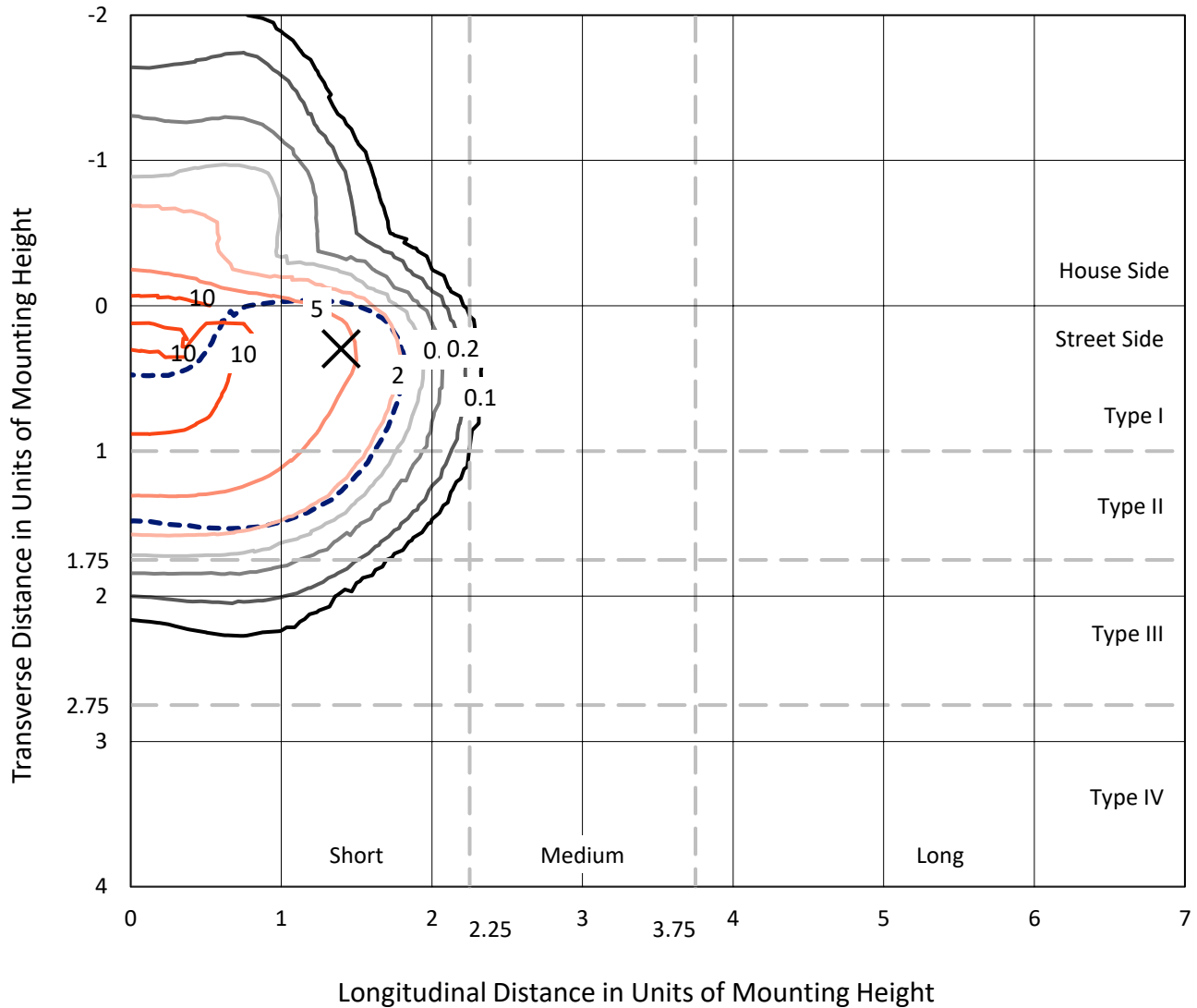
Input Watts (W): 377
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

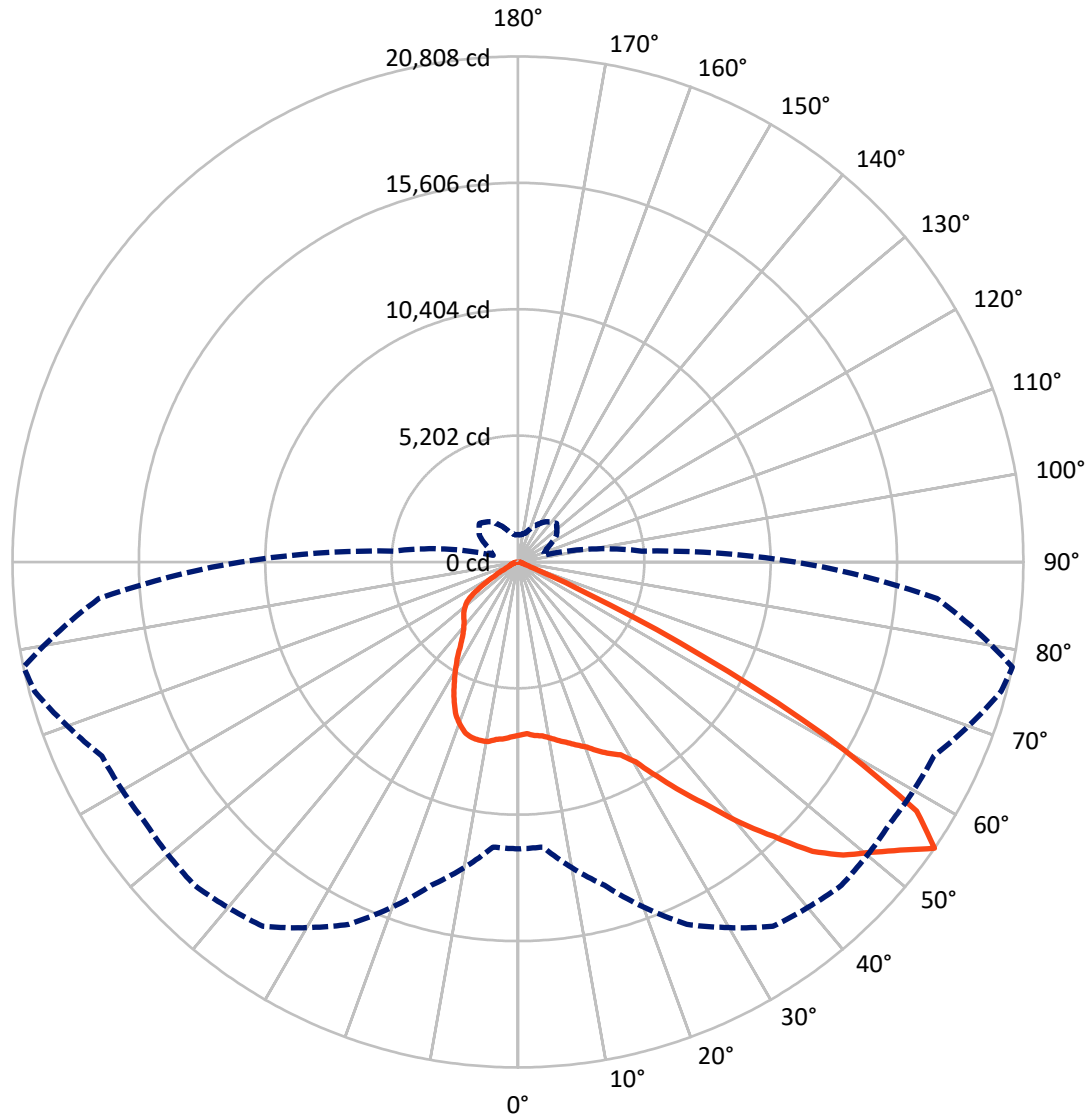
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.3 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 78-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5153.0	0.0	5153.0
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	22590.0	0.0	22590.0
	% Fixture	81.4	0.0	81.4
Total	Lumens	27743.0	0.0	27743.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	636.0	2.3
10°-20°	1683.2	6.1
20°-30°	2950.4	10.6
30°-40°	4864.8	17.5
40°-50°	7078.9	25.5
50°-60°	8021.1	28.9
60°-70°	2293.4	8.3
70°-80°	178.1	0.6
80°-90°	37.1	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°	27743.0	100.0
0°-180°	27743.0	100.0

Coefficient of Utilization



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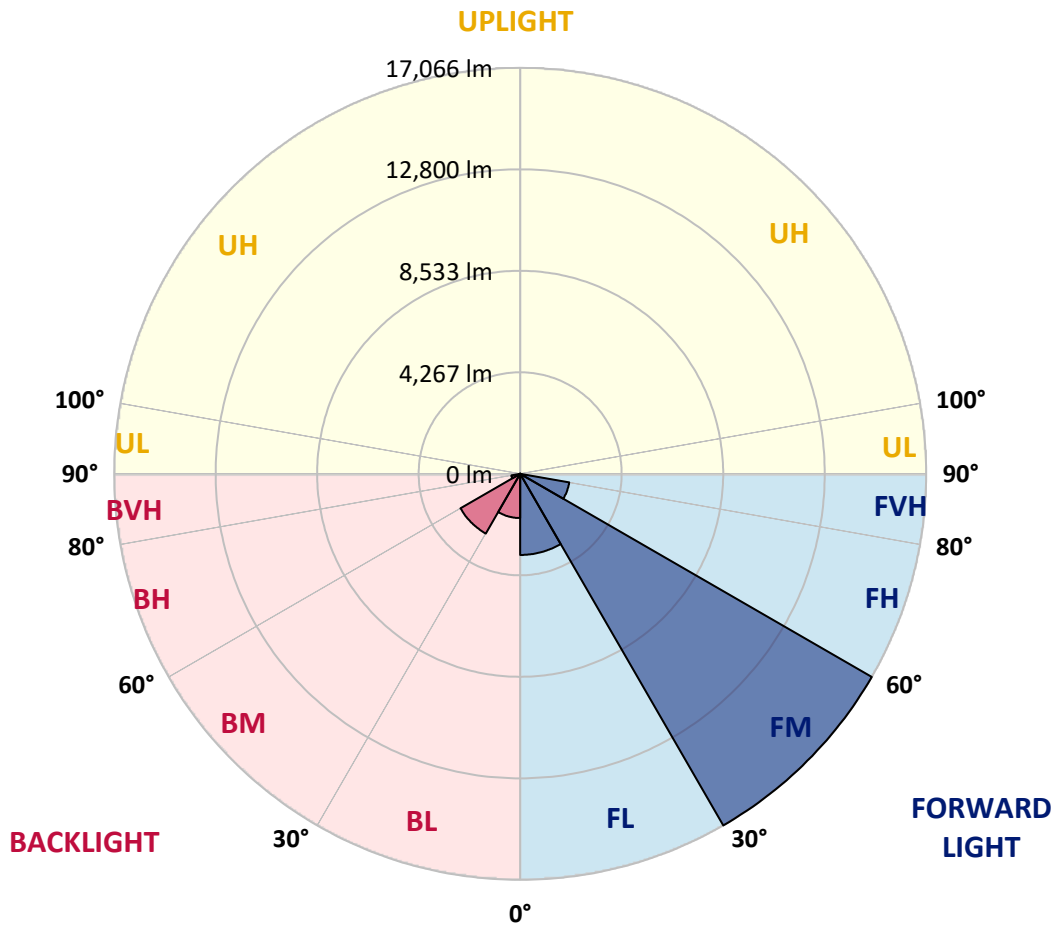
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3410.4	12.3			
FM (30°-60°)	17066.3	61.5			
FH (60°-80°)	2095.3	7.6			G2/5000
FVH (80°-90°)	18.0	0.1			G1/100
BL (0°-30°)	1859.2	6.7	B3/2500		
BM (30°-60°)	2898.6	10.4	B3/5000		
BH (60°-80°)	376.1	1.4	B1/500		G1/500
BVH (80°-90°)	19.0	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-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	78°	85°
0°	7132.7	7132.7	7132.7	7132.7	7132.7	7132.7	7132.7	7132.7	7132.7	7132.7	7132.7
2.5°	6706.2	6770.6	6780.6	6859.9	6855.0	6988.9	7028.6	7033.5	7122.8	7078.2	7192.3
5°	6517.7	6483.0	6468.1	6607.0	6646.6	6765.7	6864.9	6924.4	7107.9	7172.4	7291.5
7.5°	6349.0	6349.0	6359.0	6483.0	6468.1	6621.8	6726.0	6909.5	7177.4	7231.9	7375.8
10°	6185.3	6125.8	6200.2	6329.2	6438.3	6507.8	6726.0	6899.6	7212.1	7370.8	7569.2
12.5°	6101.0	6130.8	6140.7	6234.9	6354.0	6562.3	6681.4	6969.1	7460.1	7554.4	7767.6
15°	6631.8	6572.2	6428.4	6344.1	6443.3	6542.5	6840.1	7132.7	7589.1	7723.0	7961.1
17.5°	7246.8	7197.2	7078.2	6850.0	6626.8	6810.3	7043.5	7311.3	7728.0	7926.4	8278.5
20°	8050.4	7971.0	7852.0	7405.6	7212.1	7013.7	7261.7	7579.2	7956.1	8134.7	8496.8
22.5°	9007.7	9007.7	8739.8	8199.2	7797.4	7608.9	7713.1	7896.6	8209.1	8452.1	8809.3
25°	10004.7	9974.9	9731.9	9171.4	8491.8	8268.6	8387.7	8516.6	8601.0	8734.9	8973.0
27.5°	11145.5	10971.9	10664.4	10044.4	9444.2	9012.7	9141.6	9027.5	8923.4	8992.8	9335.1
30°	11919.3	12028.4	11636.6	11041.4	10475.9	9994.8	10019.6	9920.4	9444.2	9543.4	9746.8
32.5°	12722.9	12792.3	12574.1	12246.7	11681.2	11120.7	10917.4	10833.0	10475.9	10520.5	10322.1
35°	13392.5	13526.4	13333.0	13189.1	13025.4	12574.1	12013.6	12286.4	11711.0	11601.9	11086.0
37.5°	14007.6	13967.9	14196.0	14047.2	14012.5	13695.1	13080.0	13134.6	12747.7	12722.9	12127.6
40°	14558.1	14568.1	14880.5	14950.0	14811.1	14245.6	13352.8	13784.3	14096.8	14126.6	13362.7
42.5°	15014.5	15148.4	15416.2	15976.7	15768.4	14826.0	13635.5	14106.8	15267.4	15451.0	14533.3
45°	15411.3	15684.1	16016.4	16517.4	16398.4	15649.4	14339.9	14771.4	16517.4	16998.5	15634.5
47.5°	15436.1	15793.2	16155.3	16899.3	17048.1	16090.8	15069.0	15823.0	17509.4	18030.3	16438.0
50°	15336.9	15525.4	16249.6	17058.1	17395.4	16810.1	16090.8	16705.9	18471.7	18799.1	16844.8
52.5°	14161.3	14305.2	15758.5	17206.9	18020.3	17623.5	17445.0	17936.0	19453.8	19696.9	17226.7
55°	11805.2	11780.4	13779.4	16457.9	18308.0	18828.9	18719.7	18893.3	20589.7	20808.0	17321.0
57.5°	8075.2	8526.6	10252.7	13705.0	16547.2	18546.1	18660.2	18372.5	19265.3	19349.7	15098.8
60°	4355.0	4543.5	5932.4	9146.6	12598.9	15113.7	15411.3	14890.5	14821.0	14582.9	10778.5
62.5°	1731.1	1825.3	2614.0	4528.6	6864.9	9186.3	9826.1	9612.8	9156.5	8531.5	5580.2
65°	823.4	882.9	1299.6	2118.0	3045.6	3829.3	4469.1	4667.5	3442.4	3100.1	1840.2
67.5°	560.5	605.1	947.4	1210.3	1086.3	1135.9	1478.1	1374.0	808.5	689.5	510.9
70°	426.6	456.3	758.9	823.4	486.1	342.3	381.9	357.1	332.3	337.3	332.3
72.5°	302.6	327.4	555.5	486.1	213.3	158.7	203.4	243.0	243.0	243.0	238.1
75°	183.5	208.3	322.4	188.5	84.3	84.3	129.0	163.7	173.6	178.6	168.6
77.5°	94.2	119.0	109.1	54.6	54.6	64.5	94.2	114.1	124.0	124.0	119.0
80°	19.8	19.8	19.8	29.8	54.6	69.4	94.2	104.2	119.0	119.0	109.1
82.5°	0.0	5.0	14.9	29.8	49.6	64.5	89.3	104.2	119.0	124.0	114.1
85°	0.0	5.0	9.9	19.8	34.7	39.7	34.7	29.8	29.8	29.8	29.8
87.5°	0.0	0.0	5.0	5.0	5.0	9.9	9.9	9.9	9.9	9.9	9.9
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°	7132.7	7132.7	7132.7	7132.7	7132.7	7132.7	7132.7	7132.7	7132.7	7132.7	7132.7
2.5°	7202.2	7217.1	7192.3	7187.3	7167.5	7227.0	7083.1	7048.4	7137.7	7053.4	7073.2
5°	7296.4	7331.1	7286.5	7212.1	7103.0	6934.3	6790.5	6602.0	6512.7	6448.2	6438.3
7.5°	7365.9	7390.7	7346.0	7107.9	6780.6	6354.0	6036.5	5803.4	5619.9	5565.3	5476.0
10°	7648.6	7653.6	7430.4	6904.6	6264.7	5704.2	5218.1	4861.0	4677.5	4563.4	4513.8
12.5°	7837.1	7827.2	7375.8	6502.8	5649.6	4905.6	4350.1	3918.5	3749.9	3695.3	3660.6
15°	8075.2	8020.6	7246.8	6091.1	4856.0	4052.5	3551.5	3253.9	3239.0	3204.3	3239.0
17.5°	8263.7	8109.9	7058.3	5342.1	4097.1	3338.2	3010.8	3030.7	3070.4	3105.1	3110.0
20°	8571.2	8253.7	6626.8	4687.4	3392.8	2862.0	2857.1	2946.3	3045.6	3085.2	3124.9
22.5°	8804.3	8313.3	6165.5	3988.0	2817.4	2668.6	2752.9	2886.8	2961.2	3000.9	3060.4
25°	8888.6	8149.6	5550.4	3288.6	2539.6	2579.3	2708.3	2797.5	2891.8	2936.4	2911.6
27.5°	8973.0	8065.3	4816.3	2708.3	2390.8	2519.8	2628.9	2718.2	2747.9	2807.5	2847.1
30°	9176.3	7772.6	4156.6	2341.2	2316.4	2480.1	2559.5	2589.2	2668.6	2703.3	2703.3
32.5°	9340.0	7658.5	3457.2	2167.6	2306.5	2499.9	2509.9	2509.9	2519.8	2495.0	2485.1
35°	9677.3	7266.7	2832.3	2063.4	2301.5	2504.9	2529.7	2445.4	2217.2	2127.9	2103.1
37.5°	10094.0	7013.7	2371.0	2038.6	2336.2	2564.4	2604.1	2286.6	1989.0	1845.2	1820.4
40°	10599.9	6835.1	2068.4	2028.7	2415.6	2703.3	2584.3	2162.6	1775.7	1567.4	1557.5
42.5°	11190.2	6671.4	1865.0	2023.8	2514.8	2847.1	2564.4	2058.5	1557.5	1418.6	1438.5
45°	11661.4	6582.2	1726.1	1989.0	2549.5	2931.5	2579.3	1874.9	1468.2	1378.9	1388.9
47.5°	12028.4	6393.7	1612.1	1929.5	2544.6	2961.2	2445.4	1800.5	1423.6	1448.4	1473.2
50°	12038.4	6140.7	1468.2	1800.5	2470.2	2906.7	2291.6	1731.1	1413.7	1517.8	1567.4
52.5°	11904.4	5783.6	1314.4	1617.0	2296.6	2718.2	2152.7	1701.3	1369.0	1359.1	1418.6
55°	11428.3	5113.9	1056.5	1309.5	1939.4	2242.0	2028.7	1646.8	1235.1	1121.0	1130.9
57.5°	9235.9	3665.6	778.7	937.5	1374.0	1641.8	1830.3	1622.0	1111.1	952.4	957.3
60°	5719.1	2078.3	570.4	639.9	848.2	997.0	1483.1	1507.9	992.0	803.5	793.6
62.5°	2936.4	1026.8	441.5	451.4	520.8	585.3	1016.8	1264.8	897.8	763.9	763.9
65°	982.1	505.9	386.9	347.2	347.2	362.1	615.1	878.0	758.9	639.9	639.9
67.5°	421.6	377.0	337.3	302.6	277.8	262.9	347.2	510.9	565.5	486.1	466.3
70°	327.4	317.5	292.7	253.0	218.2	198.4	203.4	262.9	322.4	312.5	302.6
72.5°	243.0	243.0	233.1	198.4	168.6	143.8	133.9	138.9	153.8	158.7	163.7
75°	168.6	173.6	173.6	153.8	124.0	104.2	89.3	74.4	59.5	49.6	44.6
77.5°	114.1	119.0	129.0	114.1	94.2	69.4	54.6	39.7	24.8	9.9	9.9
80°	99.2	114.1	124.0	114.1	99.2	74.4	54.6	29.8	14.9	0.0	0.0
82.5°	104.2	114.1	129.0	109.1	94.2	69.4	54.6	34.7	14.9	5.0	0.0
85°	24.8	24.8	29.8	34.7	44.6	49.6	39.7	24.8	14.9	5.0	0.0
87.5°	9.9	9.9	9.9	9.9	9.9	5.0	5.0	5.0	5.0	0.0	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)