

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: P529409

Luminaire Tested: **GALN-SA4C-740-U-T2-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529409
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-13)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA4C-740-U-T2-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16406 lumens
Efficiency: N/A
Efficacy: 77.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

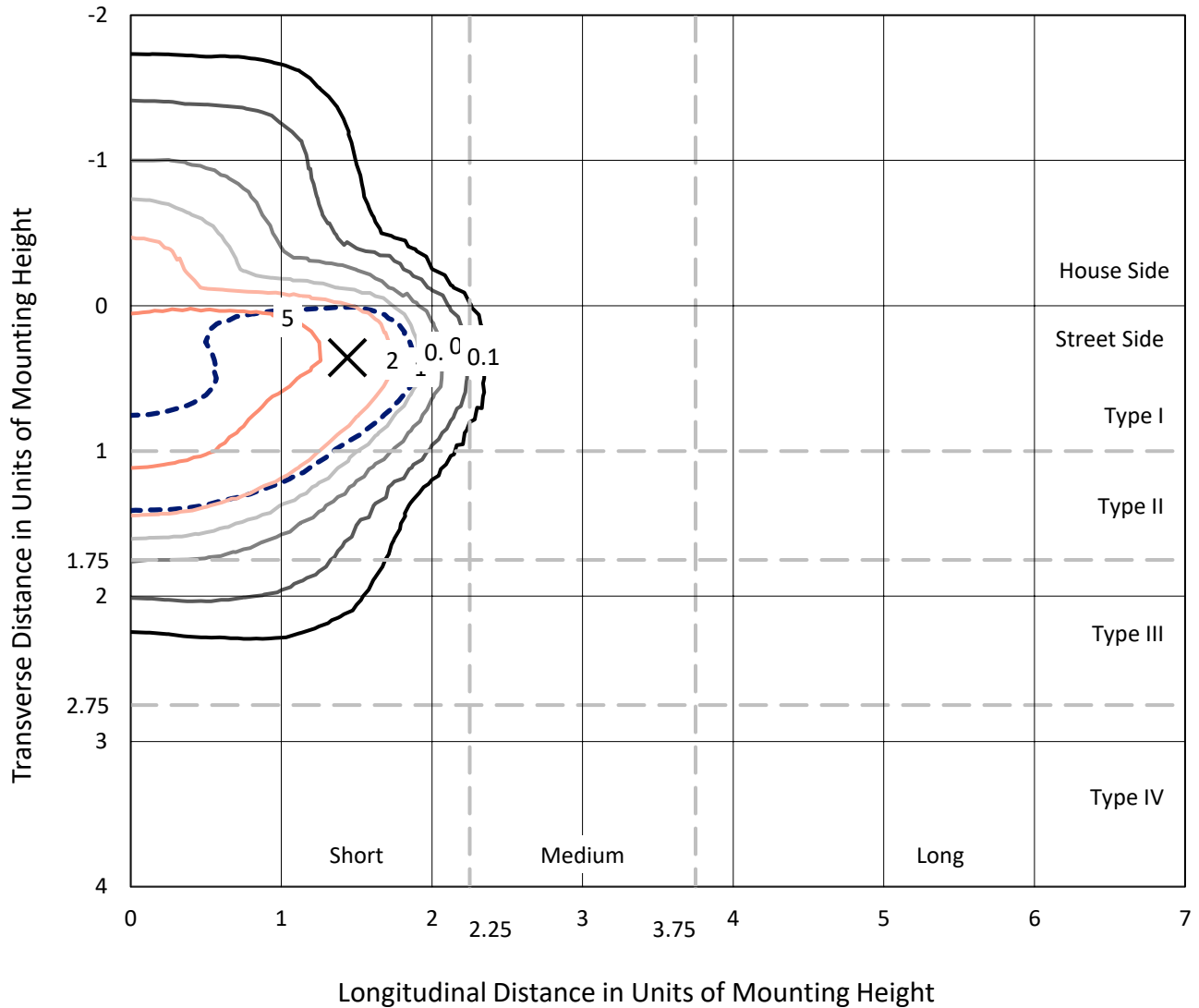
Input Watts (W): 213
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

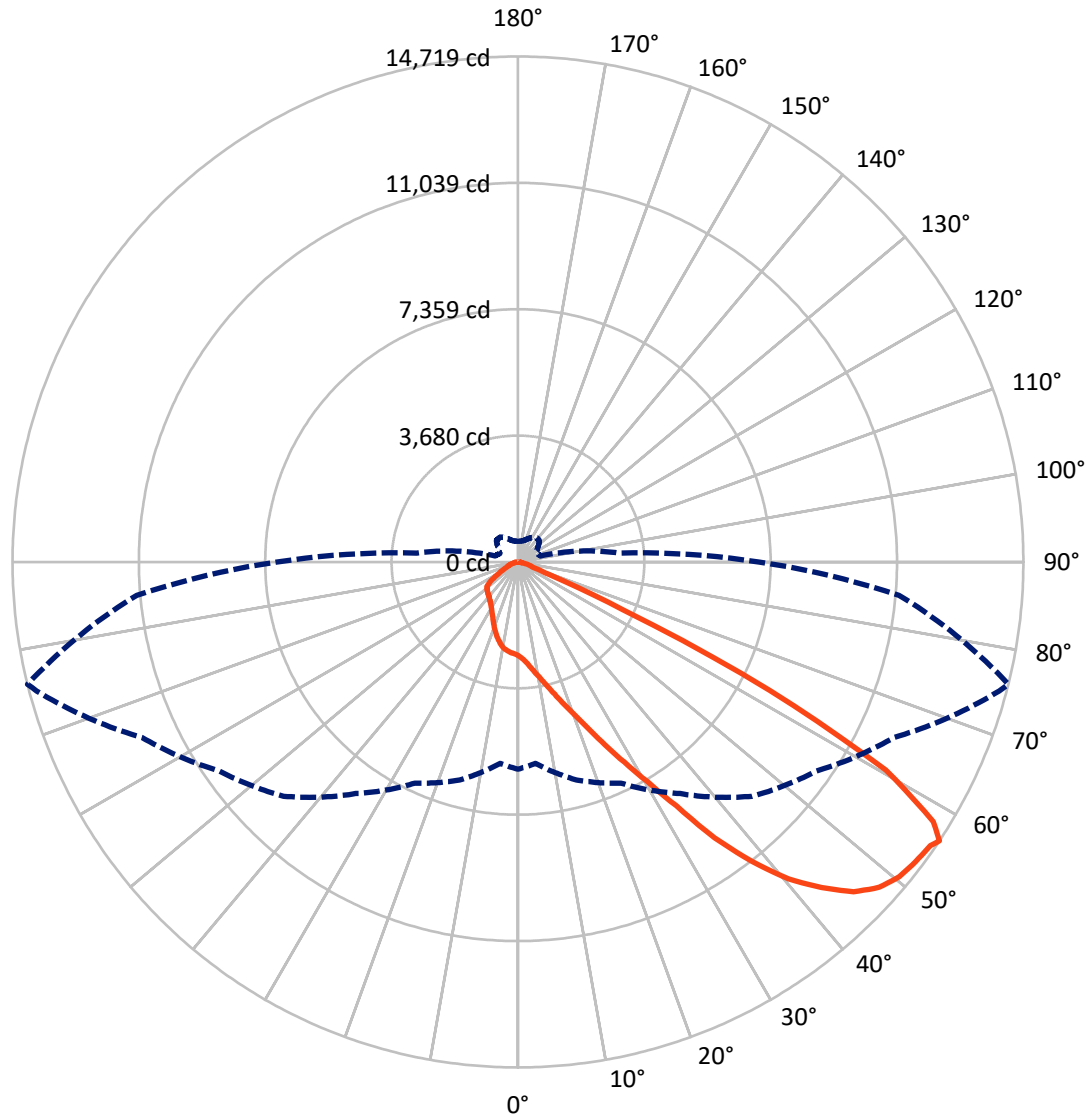
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.7 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	2577.3	0.0	2577.3
	% Fixture	15.7	0.0	15.7
Street Side	Lumens	13828.7	0.0	13828.7
	% Fixture	84.3	0.0	84.3
Total	Lumens	16406.0	0.0	16406.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	275.1	1.7
10°-20°	883.8	5.4
20°-30°	1602.5	9.8
30°-40°	2763.6	16.8
40°-50°	4489.5	27.4
50°-60°	4732.1	28.8
60°-70°	1445.9	8.8
70°-80°	185.3	1.1
80°-90°	28.2	0.2
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°	16406.0	100.0
0°-180°	16406.0	100.0

Coefficient of Utilization



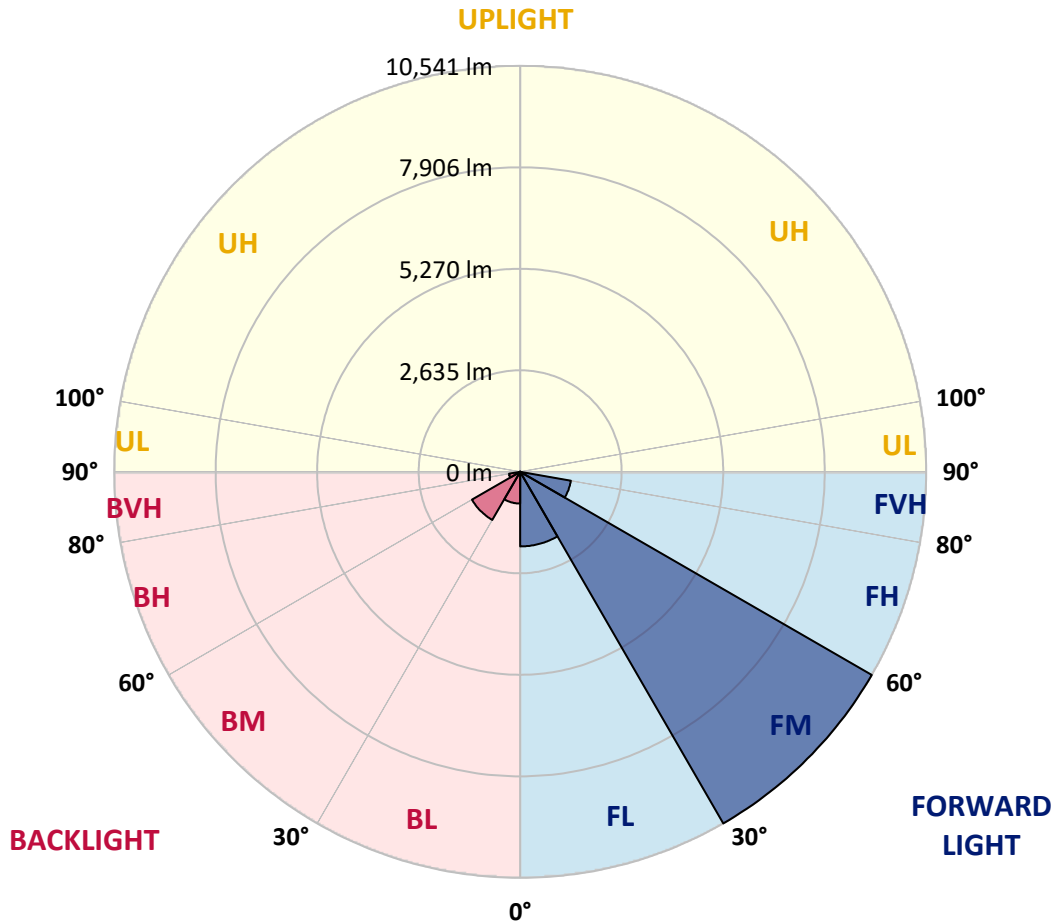
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1936.9	11.8			
FM (30°-60°)	10540.8	64.2			
FH (60°-80°)	1337.2	8.2			G1/1800
FVH (80°-90°)	13.8	0.1			G1/100
BL (0°-30°)	824.5	5.0	B2/1000		
BM (30°-60°)	1444.4	8.8	B2/2500		
BH (60°-80°)	294.0	1.8	B1/500		G1/500
BVH (80°-90°)	14.4	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2730.8	2730.8	2730.8	2730.8	2730.8	2730.8	2730.8	2730.8	2730.8	2730.8	2730.8
2.5°	3145.1	3072.5	3075.6	3069.5	3060.4	3027.2	2927.4	2912.3	2845.7	2827.6	2767.1
5°	3523.1	3459.6	3495.9	3441.5	3390.1	3359.8	3196.5	3120.9	3015.1	2975.8	2891.1
7.5°	3759.0	3728.8	3716.7	3719.7	3671.3	3595.7	3523.1	3356.8	3214.7	3184.4	3006.0
10°	3873.9	3855.8	3873.9	3864.9	3886.0	3895.1	3768.1	3668.3	3459.6	3408.2	3130.0
12.5°	3901.1	3937.4	3952.6	3991.9	4043.3	4131.0	4121.9	3985.8	3707.6	3674.3	3320.5
15°	3967.7	3997.9	3982.8	4046.3	4143.1	4291.3	4369.9	4348.7	4049.3	3988.8	3541.3
17.5°	4028.2	3973.7	4025.1	4152.2	4248.9	4475.7	4666.3	4754.0	4421.3	4351.7	3743.9
20°	4109.8	4094.7	4085.6	4149.1	4321.5	4623.9	5001.9	5162.2	4838.6	4766.1	4034.2
22.5°	4357.8	4360.8	4354.8	4261.0	4385.0	4726.7	5295.3	5691.4	5337.6	5277.1	4363.8
25°	4684.4	4645.1	4614.8	4539.2	4524.1	4820.5	5591.6	6338.6	5936.4	5894.1	4720.7
27.5°	5029.2	5029.2	4938.4	4868.9	4772.1	5053.3	5863.8	6967.6	6659.2	6601.7	5032.2
30°	5404.1	5425.3	5413.2	5265.0	5204.6	5307.4	6142.0	7772.1	7487.8	7415.2	5546.3
32.5°	5957.6	5912.2	5963.6	5839.6	5661.2	5751.9	6580.5	8491.8	8564.4	8461.6	6220.7
35°	6689.4	6662.2	6628.9	6426.3	6214.6	6287.2	7200.5	9377.9	9916.2	9864.8	6901.1
37.5°	7345.6	7330.5	7303.3	7164.2	6919.2	7006.9	7905.1	10300.2	11234.7	11065.3	7862.8
40°	8035.2	8116.8	8029.1	7905.1	7681.3	7874.9	8733.7	10847.6	12344.6	12138.9	8597.6
42.5°	8969.6	8906.1	8945.4	8718.6	8597.6	8809.3	9565.4	11395.0	13206.4	12961.5	9377.9
45°	9964.6	9967.6	9861.7	9789.2	9474.6	9704.5	10076.5	11697.4	13892.9	13702.4	9967.6
47.5°	10602.7	10599.6	10714.5	10829.5	10505.9	10279.1	10424.2	11984.7	14246.7	14159.0	10182.3
50°	10502.9	10533.1	10681.3	11110.7	11280.1	10974.6	10750.8	11900.0	14407.0	14398.0	10366.8
52.5°	9135.9	9235.7	9483.7	10103.7	10956.5	11334.5	11092.6	12057.3	14485.7	14500.8	10642.0
55°	6955.5	7010.0	7481.7	8234.7	9178.3	10472.6	10956.5	12181.3	14546.1	14573.4	10974.6
56°	6033.2	5888.0	6568.4	7103.7	8231.7	9647.0	10611.7	12084.5	14509.8	14718.5	11141.0
57.5°	4554.4	4457.6	5008.0	5676.3	6762.0	8255.9	9541.2	11627.8	14264.9	14261.9	10902.0
60°	2770.1	2673.3	3096.7	3489.9	4097.7	5083.6	6447.5	9259.9	12060.3	12314.3	8827.5
62.5°	1648.2	1708.6	2126.0	2364.9	2561.5	2664.3	3335.6	5503.9	8047.3	8228.7	5476.7
65°	1097.8	1118.9	1433.4	1826.6	1914.3	1524.2	1357.8	2228.8	3489.9	3378.0	2259.0
67.5°	677.4	725.8	961.7	1373.0	1521.1	1112.9	644.1	831.6	961.7	961.7	653.2
70°	411.3	435.5	641.1	934.5	1043.3	716.7	468.7	468.7	462.7	453.6	390.1
72.5°	196.6	211.7	326.6	480.8	489.9	378.0	362.9	396.2	387.1	384.1	323.6
75°	84.7	90.7	114.9	151.2	172.4	160.3	220.8	284.3	293.3	284.3	232.9
77.5°	27.2	30.2	42.3	54.4	57.5	69.6	93.7	117.9	136.1	127.0	114.9
80°	3.0	6.0	12.1	27.2	42.3	54.4	69.6	78.6	87.7	87.7	81.7
82.5°	3.0	3.0	12.1	24.2	39.3	51.4	66.5	75.6	87.7	90.7	84.7
85°	0.0	3.0	9.1	21.2	33.3	33.3	30.2	30.2	21.2	21.2	21.2
87.5°	0.0	0.0	3.0	3.0	3.0	6.0	6.0	6.0	6.0	6.0	6.0
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°	2730.8	2730.8	2730.8	2730.8	2730.8	2730.8	2730.8	2730.8	2730.8	2730.8	2730.8
2.5°	2755.0	2748.9	2667.3	2615.9	2588.7	2534.2	2501.0	2476.8	2458.6	2437.5	2440.5
5°	2791.3	2770.1	2634.0	2540.3	2428.4	2367.9	2316.5	2274.2	2246.9	2240.9	2228.8
7.5°	2894.1	2782.2	2576.6	2407.2	2265.1	2204.6	2159.2	2132.0	2144.1	2116.9	2138.1
10°	2972.7	2806.4	2507.0	2262.1	2119.9	2074.6	2050.4	2071.5	2101.8	2089.7	2074.6
12.5°	3069.5	2830.6	2395.1	2123.0	1989.9	1956.6	1999.0	2038.3	2098.8	2123.0	2092.7
15°	3178.4	2857.8	2253.0	1962.7	1878.0	1905.2	1977.8	2047.3	2107.8	2138.1	2156.2
17.5°	3311.4	2848.7	2113.9	1835.7	1772.1	1850.8	1938.5	2002.0	2092.7	2138.1	2126.0
20°	3435.4	2818.5	1959.6	1708.6	1711.7	1784.2	1856.8	1959.6	2008.0	2068.5	2047.3
22.5°	3553.4	2764.1	1799.4	1620.9	1620.9	1732.8	1769.1	1835.7	1878.0	1908.2	1905.2
25°	3719.7	2661.2	1666.3	1536.3	1572.6	1645.1	1675.4	1696.5	1678.4	1702.6	1705.6
27.5°	3837.6	2555.4	1557.4	1460.7	1527.2	1581.6	1572.6	1560.5	1518.1	1484.9	1506.0
30°	3964.7	2431.4	1463.7	1409.3	1445.5	1493.9	1457.6	1421.3	1354.8	1300.4	1303.4
32.5°	4146.1	2374.0	1382.0	1348.8	1397.2	1403.2	1363.9	1309.5	1242.9	1191.5	1188.5
35°	4484.8	2337.7	1312.5	1309.5	1318.5	1321.6	1282.2	1215.7	1188.5	1146.2	1161.3
37.5°	4823.5	2319.5	1264.1	1252.0	1249.0	1252.0	1206.6	1143.1	1194.5	1191.5	1197.6
40°	5256.0	2401.2	1194.5	1179.4	1182.4	1182.4	1125.0	1106.8	1197.6	1206.6	1209.7
42.5°	5694.5	2504.0	1149.2	1100.8	1112.9	1112.9	1082.6	1061.5	1125.0	1064.5	1055.4
45°	6075.5	2655.2	1100.8	1022.2	1052.4	1067.5	1058.5	1022.2	982.8	880.0	880.0
47.5°	6199.5	2788.3	1043.3	946.6	970.8	1037.3	1010.1	934.5	864.9	780.2	774.2
50°	6417.2	2933.4	998.0	858.9	910.3	991.9	964.7	889.1	810.5	750.0	753.0
52.5°	6641.0	3099.7	913.3	756.0	819.5	955.6	955.6	871.0	750.0	707.7	701.6
55°	6976.7	3093.7	762.1	619.9	731.8	901.2	916.3	780.2	671.4	638.1	638.1
56°	7025.1	2954.6	686.5	580.6	692.5	886.1	889.1	756.0	641.1	604.8	604.8
57.5°	6662.2	2667.3	601.8	532.2	644.1	858.9	861.9	734.9	616.9	565.5	559.5
60°	5125.9	1805.4	502.0	474.8	583.7	774.2	789.3	668.3	541.3	502.0	499.0
62.5°	2894.1	1001.0	441.5	429.4	502.0	659.3	704.6	583.7	459.7	438.5	444.5
65°	1321.6	550.4	372.0	347.8	405.2	508.1	568.5	480.8	378.0	353.8	353.8
67.5°	483.9	375.0	317.5	275.2	284.3	329.6	368.9	311.5	251.0	214.7	223.8
70°	344.8	314.5	278.2	238.9	220.8	214.7	211.7	175.4	124.0	96.8	102.8
72.5°	278.2	260.1	232.9	202.6	172.4	145.2	124.0	90.7	57.5	39.3	36.3
75°	199.6	190.5	169.4	145.2	121.0	102.8	84.7	57.5	30.2	15.1	15.1
77.5°	102.8	102.8	99.8	90.7	75.6	60.5	48.4	33.3	18.1	6.0	6.0
80°	78.6	84.7	87.7	78.6	69.6	54.4	39.3	24.2	12.1	3.0	3.0
82.5°	75.6	87.7	93.7	81.7	69.6	51.4	39.3	24.2	12.1	3.0	3.0
85°	18.1	18.1	27.2	30.2	39.3	42.3	33.3	21.2	9.1	3.0	3.0
87.5°	6.0	6.0	6.0	6.0	6.0	6.0	3.0	3.0	3.0	3.0	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)