

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: P529383

Luminaire Tested: **GALN-SA4C-735-U-T2-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529383
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-735-U-T2-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3500K, 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: 15283 lumens
Efficiency: N/A
Efficacy: 71.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

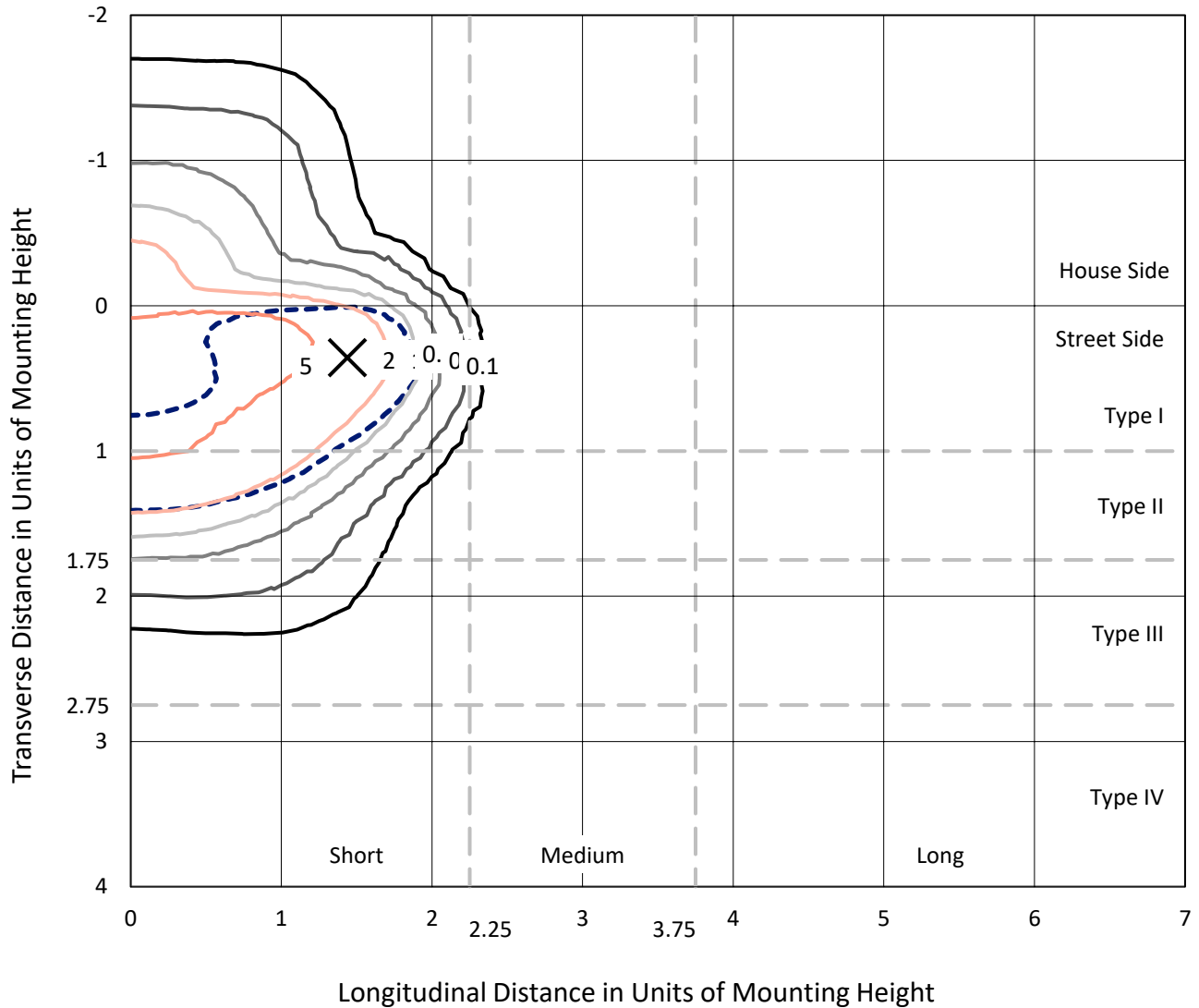
Input Watts (W): 213
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

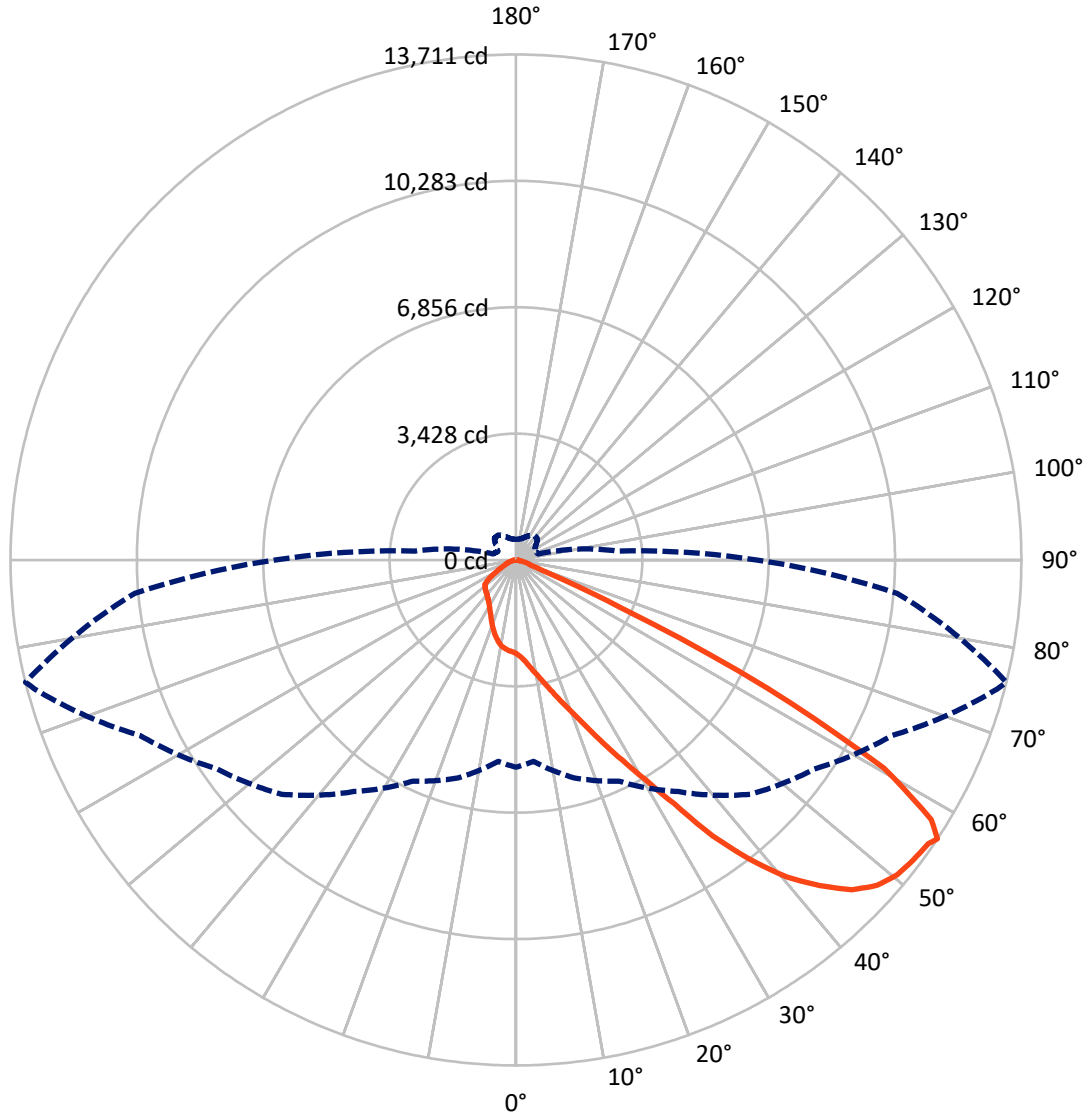
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.1 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	2400.9	0.0	2400.9
	% Fixture	15.7	0.0	15.7
Street Side	Lumens	12882.1	0.0	12882.1
	% Fixture	84.3	0.0	84.3
Total	Lumens	15283.0	0.0	15283.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	256.3	1.7
10°-20°	823.3	5.4
20°-30°	1492.8	9.8
30°-40°	2574.4	16.8
40°-50°	4182.2	27.4
50°-60°	4408.2	28.8
60°-70°	1346.9	8.8
70°-80°	172.7	1.1
80°-90°	26.2	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°	15283.0	100.0
0°-180°	15283.0	100.0

Coefficient of Utilization

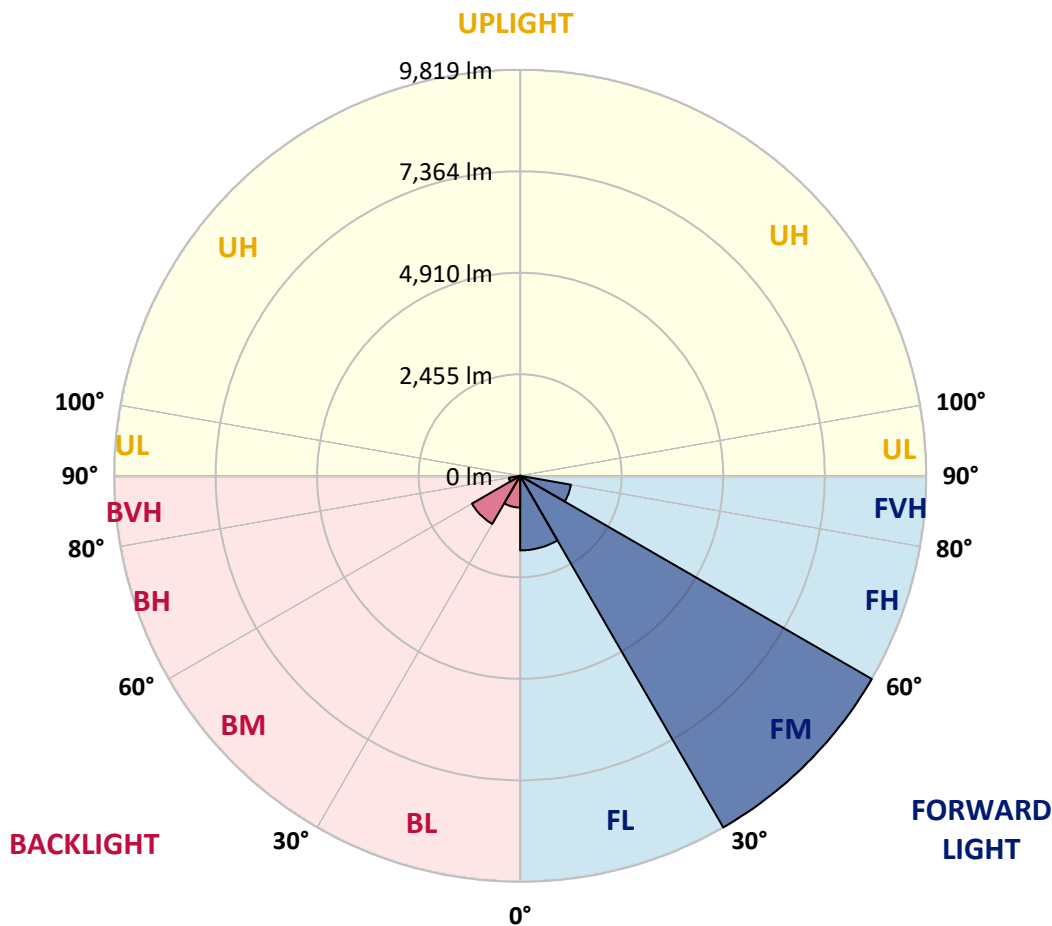


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1804.3	11.8			
FM (30°-60°)	9819.3	64.2			
FH (60°-80°)	1245.7	8.2			G1/1800
FVH (80°-90°)	12.9	0.1			G1/100
BL (0°-30°)	768.0	5.0	B2/1000		
BM (30°-60°)	1345.6	8.8	B2/2500		
BH (60°-80°)	273.9	1.8	B1/500		G1/500
BVH (80°-90°)	13.4	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°	2543.9	2543.9	2543.9	2543.9	2543.9	2543.9	2543.9	2543.9	2543.9	2543.9	2543.9
2.5°	2929.8	2862.2	2865.0	2859.4	2850.9	2820.0	2727.0	2712.9	2650.9	2634.0	2577.7
5°	3282.0	3222.8	3256.6	3205.9	3158.0	3129.8	2977.7	2907.3	2808.7	2772.1	2693.2
7.5°	3501.7	3473.5	3462.3	3465.1	3420.0	3349.6	3282.0	3127.0	2994.6	2966.4	2800.2
10°	3608.8	3591.9	3608.8	3600.3	3620.0	3628.5	3510.2	3417.2	3222.8	3174.9	2915.7
12.5°	3634.1	3667.9	3682.0	3718.6	3766.5	3848.2	3839.8	3713.0	3453.8	3422.8	3093.2
15°	3696.1	3724.3	3710.2	3769.3	3859.5	3997.5	4070.8	4051.0	3772.2	3715.8	3298.9
17.5°	3752.4	3701.7	3749.6	3867.9	3958.1	4169.4	4346.8	4428.5	4118.7	4053.9	3487.6
20°	3828.5	3814.4	3806.0	3865.1	4025.7	4307.4	4659.6	4808.9	4507.4	4439.8	3758.1
22.5°	4059.5	4062.3	4056.7	3969.4	4084.9	4403.2	4932.8	5301.9	4972.3	4915.9	4065.1
25°	4363.8	4327.1	4299.0	4228.5	4214.4	4490.5	5208.9	5904.7	5530.0	5490.6	4397.6
27.5°	4684.9	4684.9	4600.4	4535.6	4445.4	4707.4	5462.4	6490.7	6203.3	6149.8	4687.7
30°	5034.2	5054.0	5042.7	4904.6	4848.3	4944.1	5721.6	7240.1	6975.2	6907.6	5166.6
32.5°	5549.8	5507.5	5555.4	5439.9	5273.7	5358.2	6130.1	7910.5	7978.1	7882.4	5794.9
35°	6231.5	6206.2	6175.2	5986.4	5789.2	5856.8	6707.6	8736.0	9237.4	9189.5	6428.7
37.5°	6842.8	6828.7	6803.4	6673.8	6445.6	6527.3	7364.0	9595.2	10465.7	10307.9	7324.6
40°	7485.1	7561.2	7479.5	7364.0	7155.5	7335.8	8135.9	10105.1	11499.6	11308.0	8009.1
42.5°	8355.6	8296.5	8333.1	8121.8	8009.1	8206.3	8910.6	10615.0	12302.5	12074.3	8736.0
45°	9282.5	9285.3	9186.7	9119.1	8826.1	9040.2	9386.7	10896.7	12941.9	12764.5	9285.3
47.5°	9876.9	9874.1	9981.1	10088.2	9786.7	9575.5	9710.7	11164.3	13271.6	13189.9	9485.3
50°	9783.9	9812.1	9950.1	10350.2	10507.9	10223.4	10014.9	11085.4	13420.9	13412.4	9657.2
52.5°	8510.6	8603.5	8834.6	9412.1	10206.5	10558.6	10333.3	11231.9	13494.1	13508.2	9913.5
55°	6479.4	6530.1	6969.6	7671.1	8550.0	9755.8	10206.5	11347.4	13550.4	13575.8	10223.4
56°	5620.2	5485.0	6118.8	6617.5	7668.3	8986.7	9885.3	11257.3	13516.6	13711.0	10378.3
57.5°	4242.6	4152.5	4665.2	5287.8	6299.1	7690.8	8888.1	10831.9	13288.5	13285.6	10155.8
60°	2580.5	2490.4	2884.8	3251.0	3817.2	4735.6	6006.1	8626.1	11234.8	11471.4	8223.2
62.5°	1535.3	1591.7	1980.5	2203.0	2386.1	2481.9	3107.3	5127.2	7496.4	7665.4	5101.8
65°	1022.6	1042.3	1335.3	1701.6	1783.3	1419.8	1264.9	2076.2	3251.0	3146.7	2104.4
67.5°	631.0	676.1	895.9	1279.0	1417.0	1036.7	600.1	774.7	895.9	895.9	608.5
70°	383.1	405.7	597.2	870.5	971.9	667.7	436.7	436.7	431.0	422.6	363.4
72.5°	183.1	197.2	304.3	447.9	456.4	352.1	338.1	369.0	360.6	357.8	301.4
75°	78.9	84.5	107.1	140.9	160.6	149.3	205.7	264.8	273.3	264.8	216.9
77.5°	25.4	28.2	39.4	50.7	53.5	64.8	87.3	109.9	126.8	118.3	107.1
80°	2.8	5.6	11.3	25.4	39.4	50.7	64.8	73.2	81.7	81.7	76.1
82.5°	2.8	2.8	11.3	22.5	36.6	47.9	62.0	70.4	81.7	84.5	78.9
85°	0.0	2.8	8.5	19.7	31.0	31.0	28.2	28.2	19.7	19.7	19.7
87.5°	0.0	0.0	2.8	2.8	2.8	5.6	5.6	5.6	5.6	5.6	5.6
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°	2543.9	2543.9	2543.9	2543.9	2543.9	2543.9	2543.9	2543.9	2543.9	2543.9	2543.9
2.5°	2566.4	2560.8	2484.7	2436.8	2411.5	2360.8	2329.8	2307.2	2290.3	2270.6	2273.4
5°	2600.2	2580.5	2453.7	2366.4	2262.2	2205.8	2157.9	2118.5	2093.1	2087.5	2076.2
7.5°	2696.0	2591.8	2400.2	2242.4	2110.0	2053.7	2011.4	1986.1	1997.4	1972.0	1991.7
10°	2769.2	2614.3	2335.4	2107.2	1974.8	1932.6	1910.0	1929.7	1957.9	1946.6	1932.6
12.5°	2859.4	2636.8	2231.2	1977.6	1853.7	1822.7	1862.1	1898.8	1955.1	1977.6	1949.5
15°	2960.8	2662.2	2098.8	1828.3	1749.4	1774.8	1842.4	1907.2	1963.5	1991.7	2008.6
17.5°	3084.8	2653.7	1969.2	1710.0	1650.8	1724.1	1805.8	1864.9	1949.5	1991.7	1980.5
20°	3200.3	2625.6	1825.5	1591.7	1594.5	1662.1	1729.7	1825.5	1870.6	1926.9	1907.2
22.5°	3310.1	2574.9	1676.2	1510.0	1510.0	1614.2	1648.0	1710.0	1749.4	1777.6	1774.8
25°	3465.1	2479.1	1552.2	1431.1	1464.9	1532.5	1560.7	1580.4	1563.5	1586.1	1588.9
27.5°	3575.0	2380.5	1450.8	1360.7	1422.7	1473.4	1464.9	1453.6	1414.2	1383.2	1402.9
30°	3693.3	2265.0	1363.5	1312.8	1346.6	1391.7	1357.9	1324.1	1262.1	1211.4	1214.2
32.5°	3862.3	2211.5	1287.4	1256.4	1301.5	1307.2	1270.5	1219.8	1157.8	1110.0	1107.1
35°	4177.8	2177.6	1222.6	1219.8	1228.3	1231.1	1194.5	1132.5	1107.1	1067.7	1081.8
37.5°	4493.3	2160.7	1177.6	1166.3	1163.5	1166.3	1124.0	1064.9	1112.8	1110.0	1115.6
40°	4896.2	2236.8	1112.8	1098.7	1101.5	1101.5	1048.0	1031.1	1115.6	1124.0	1126.9
42.5°	5304.7	2332.6	1070.5	1025.4	1036.7	1036.7	1008.5	988.8	1048.0	991.6	983.2
45°	5659.6	2473.4	1025.4	952.2	980.4	994.5	986.0	952.2	915.6	819.8	819.8
47.5°	5775.1	2597.4	971.9	881.8	904.3	966.3	940.9	870.5	805.7	726.8	721.2
50°	5978.0	2732.6	929.7	800.1	848.0	924.0	898.7	828.2	755.0	698.7	701.5
52.5°	6186.4	2887.6	850.8	704.3	763.4	890.2	890.2	811.3	698.7	659.2	653.6
55°	6499.1	2881.9	709.9	577.5	681.7	839.5	853.6	726.8	625.4	594.4	594.4
56°	6544.2	2752.3	639.5	540.9	645.1	825.4	828.2	704.3	597.2	563.4	563.4
57.5°	6206.2	2484.7	560.6	495.8	600.1	800.1	802.9	684.6	574.7	526.8	521.2
60°	4775.1	1681.8	467.6	442.3	543.7	721.2	735.3	622.6	504.3	467.6	464.8
62.5°	2696.0	932.5	411.3	400.0	467.6	614.1	656.4	543.7	428.2	408.5	414.1
65°	1231.1	512.7	346.5	324.0	377.5	473.3	529.6	447.9	352.1	329.6	329.6
67.5°	450.7	349.3	295.8	256.4	264.8	307.1	343.7	290.2	233.8	200.0	208.5
70°	321.2	293.0	259.2	222.6	205.7	200.0	197.2	163.4	115.5	90.1	95.8
72.5°	259.2	242.3	216.9	188.7	160.6	135.2	115.5	84.5	53.5	36.6	33.8
75°	185.9	177.5	157.8	135.2	112.7	95.8	78.9	53.5	28.2	14.1	14.1
77.5°	95.8	95.8	93.0	84.5	70.4	56.3	45.1	31.0	16.9	5.6	5.6
80°	73.2	78.9	81.7	73.2	64.8	50.7	36.6	22.5	11.3	2.8	2.8
82.5°	70.4	81.7	87.3	76.1	64.8	47.9	36.6	22.5	11.3	2.8	2.8
85°	16.9	16.9	25.4	28.2	36.6	39.4	31.0	19.7	8.5	2.8	2.8
87.5°	5.6	5.6	5.6	5.6	5.6	5.6	2.8	2.8	2.8	2.8	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)