

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: P528941

Luminaire Tested: **GALN-SA4A-740-U-T2-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P528941
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-SA4A-740-U-T2-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 4000K, 615mA 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: 10672 lumens
Efficiency: N/A
Efficacy: 88.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

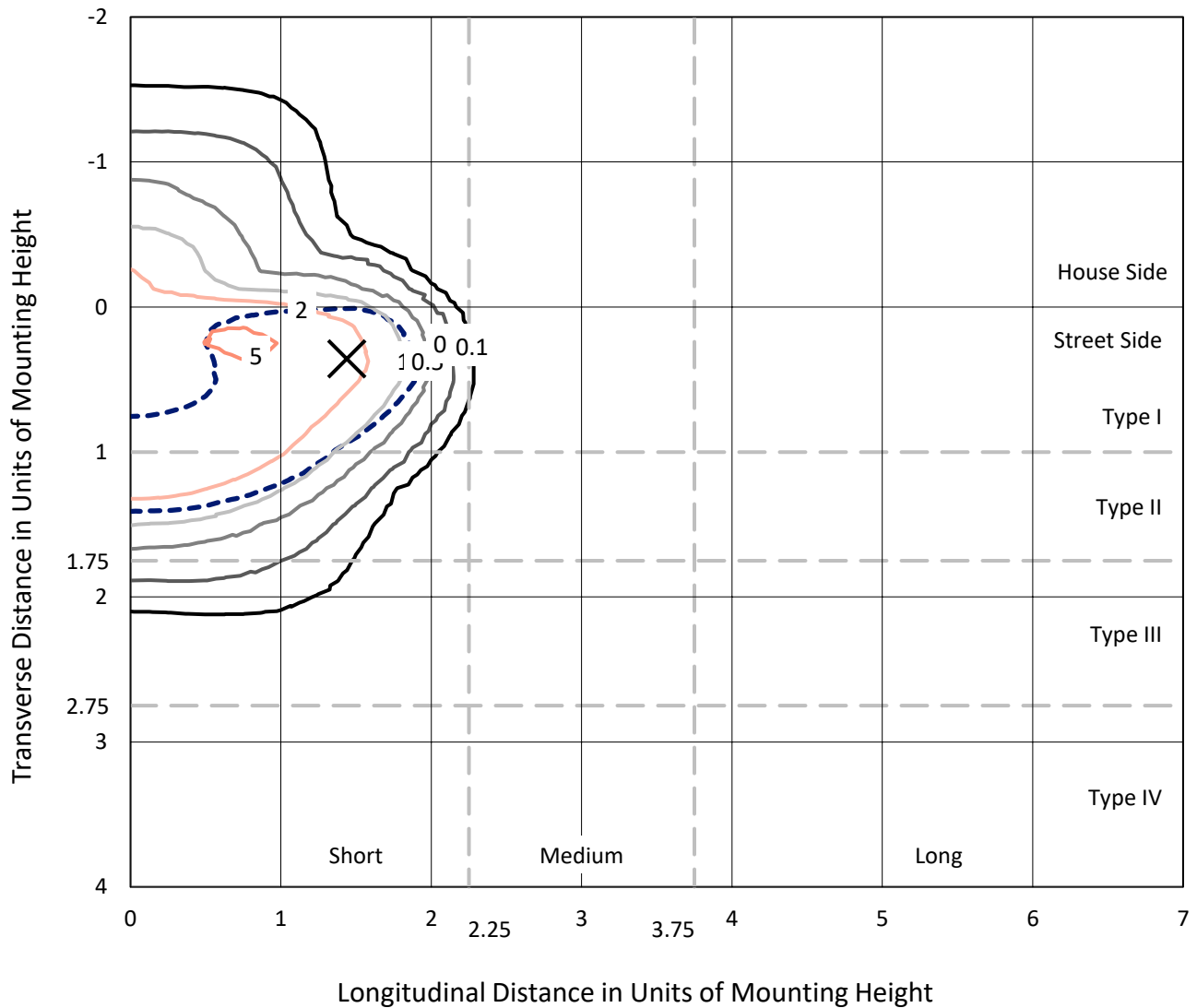
Input Watts (W): 121
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

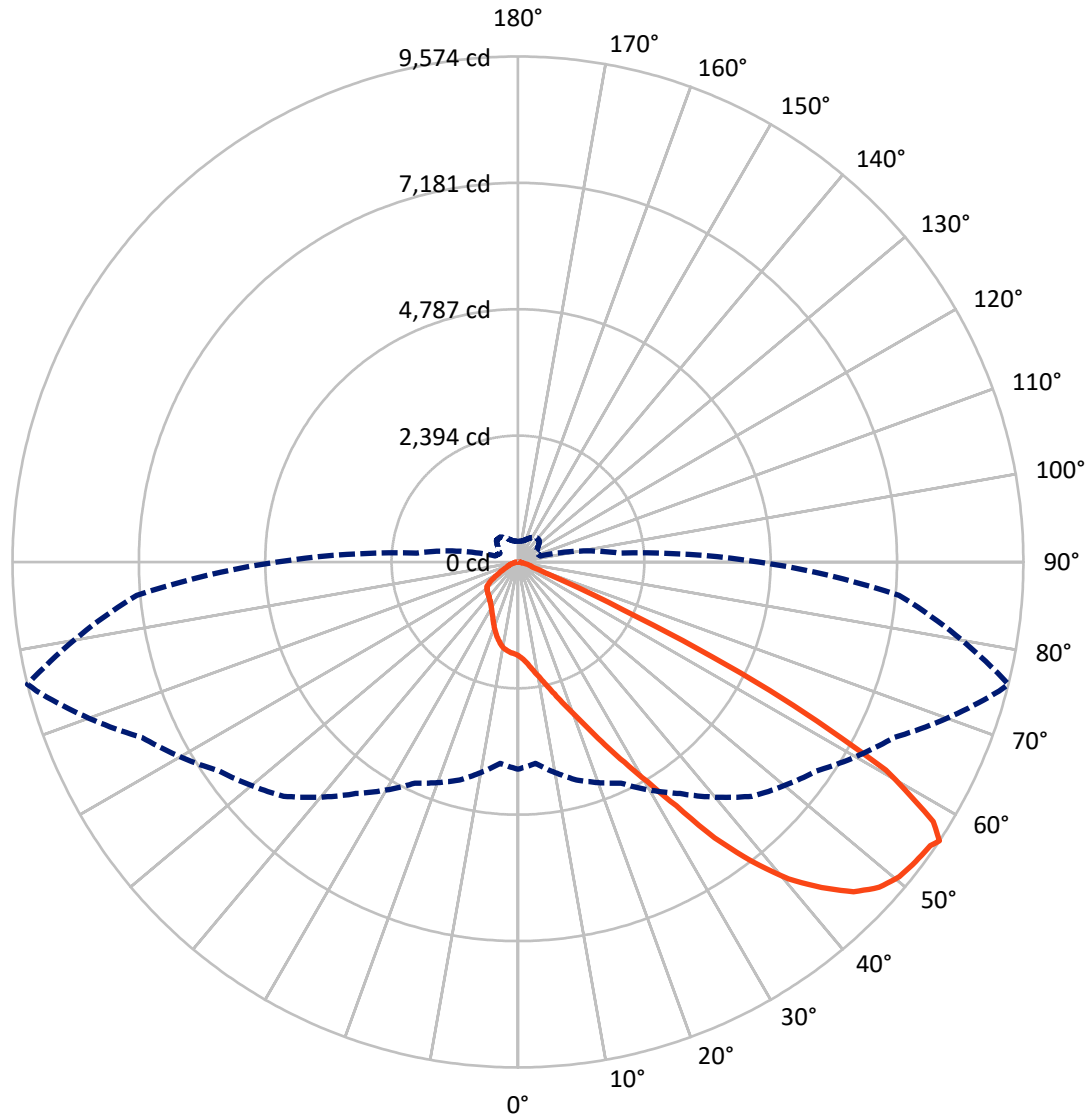
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.6 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	1676.5	0.0	1676.5
	% Fixture	15.7	0.0	15.7
Street Side	Lumens	8995.5	0.0	8995.5
	% Fixture	84.3	0.0	84.3
Total	Lumens	10672.0	0.0	10672.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	178.9	1.7
10°-20°	574.9	5.4
20°-30°	1042.4	9.8
30°-40°	1797.7	16.8
40°-50°	2920.4	27.4
50°-60°	3078.2	28.8
60°-70°	940.5	8.8
70°-80°	120.6	1.1
80°-90°	18.3	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°	10672.0	100.0
0°-180°	10672.0	100.0

Coefficient of Utilization

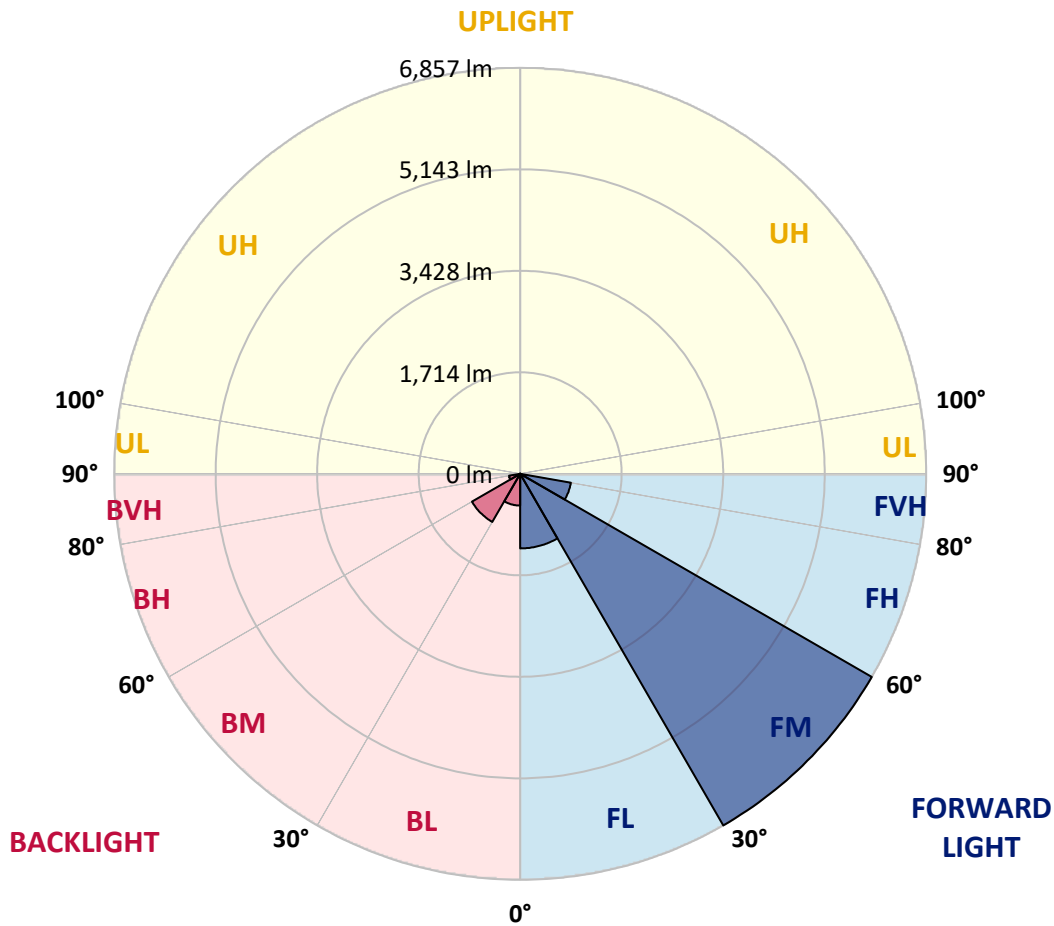


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1259.9	11.8			
FM (30°-60°)	6856.7	64.2			
FH (60°-80°)	869.8	8.2			G1/1800
FVH (80°-90°)	9.0	0.1			G0/10
BL (0°-30°)	536.3	5.0	B2/1000		
BM (30°-60°)	939.6	8.8	B1/1000		
BH (60°-80°)	191.3	1.8	B1/500		G1/500
BVH (80°-90°)	9.3	0.1			G0/10
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°	1776.4	1776.4	1776.4	1776.4	1776.4	1776.4	1776.4	1776.4	1776.4	1776.4	1776.4
2.5°	2045.9	1998.7	2000.6	1996.7	1990.8	1969.2	1904.2	1894.4	1851.1	1839.3	1800.0
5°	2291.8	2250.5	2274.1	2238.7	2205.2	2185.5	2079.3	2030.1	1961.3	1935.7	1880.6
7.5°	2445.2	2425.5	2417.7	2419.6	2388.2	2339.0	2291.8	2183.6	2091.1	2071.4	1955.4
10°	2520.0	2508.2	2520.0	2514.1	2527.8	2533.7	2451.1	2386.2	2250.5	2217.0	2036.0
12.5°	2537.7	2561.3	2571.1	2596.7	2630.1	2687.2	2681.3	2592.8	2411.8	2390.1	2160.0
15°	2581.0	2600.6	2590.8	2632.1	2695.0	2791.4	2842.6	2828.8	2634.1	2594.7	2303.6
17.5°	2620.3	2584.9	2618.3	2700.9	2763.9	2911.4	3035.4	3092.4	2876.0	2830.8	2435.4
20°	2673.4	2663.6	2657.7	2699.0	2811.1	3007.8	3253.7	3358.0	3147.5	3100.3	2624.2
22.5°	2834.7	2836.7	2832.8	2771.8	2852.4	3074.7	3444.5	3702.2	3472.1	3432.7	2838.7
25°	3047.2	3021.6	3001.9	2952.7	2942.9	3135.7	3637.3	4123.2	3861.6	3834.0	3070.8
27.5°	3271.4	3271.4	3212.4	3167.2	3104.2	3287.2	3814.4	4532.4	4331.7	4294.4	3273.4
30°	3515.4	3529.1	3521.3	3424.9	3385.5	3452.4	3995.4	5055.7	4870.8	4823.5	3607.8
32.5°	3875.4	3845.9	3879.3	3798.6	3682.6	3741.6	4280.6	5523.9	5571.1	5504.2	4046.5
35°	4351.4	4333.7	4312.1	4180.3	4042.6	4089.8	4683.9	6100.2	6450.4	6417.0	4489.1
37.5°	4778.3	4768.5	4750.8	4660.3	4500.9	4558.0	5142.2	6700.2	7308.1	7197.9	5114.7
40°	5226.8	5279.9	5222.9	5142.2	4996.7	5122.6	5681.2	7056.3	8030.1	7896.3	5592.7
42.5°	5834.7	5793.4	5818.9	5671.4	5592.7	5730.4	6222.2	7412.4	8590.7	8431.4	6100.2
45°	6481.9	6483.9	6415.0	6367.8	6163.2	6312.7	6554.7	7609.1	9037.3	8913.3	6483.9
47.5°	6897.0	6895.0	6969.7	7044.5	6834.0	6686.5	6780.9	7796.0	9267.4	9210.4	6623.5
50°	6832.0	6851.7	6948.1	7227.4	7337.6	7138.9	6993.4	7740.9	9371.7	9365.8	6743.5
52.5°	5942.9	6007.8	6169.1	6572.4	7127.1	7373.0	7215.6	7843.2	9422.8	9432.7	6922.5
55°	4524.5	4559.9	4866.8	5356.7	5970.4	6812.4	7127.1	7923.8	9462.2	9479.9	7138.9
56°	3924.5	3830.1	4272.7	4620.9	5354.7	6275.3	6902.9	7860.9	9438.6	9574.3	7247.1
57.5°	2962.6	2899.6	3257.7	3692.4	4398.6	5370.4	6206.5	7563.8	9279.2	9277.3	7091.7
60°	1801.9	1739.0	2014.4	2270.1	2665.5	3306.8	4194.0	6023.5	7845.1	8010.4	5742.2
62.5°	1072.1	1111.5	1382.9	1538.3	1666.2	1733.1	2169.8	3580.3	5234.7	5352.7	3562.6
65°	714.1	727.9	932.4	1188.2	1245.2	991.5	883.3	1449.8	2270.1	2197.3	1469.5
67.5°	440.7	472.1	625.6	893.1	989.5	723.9	419.0	541.0	625.6	625.6	424.9
70°	267.5	283.3	417.0	607.9	678.7	466.2	304.9	304.9	301.0	295.1	253.8
72.5°	127.9	137.7	212.5	312.8	318.7	245.9	236.1	257.7	251.8	249.8	210.5
75°	55.1	59.0	74.8	98.4	112.1	104.3	143.6	184.9	190.8	184.9	151.5
77.5°	17.7	19.7	27.5	35.4	37.4	45.2	61.0	76.7	88.5	82.6	74.8
80°	2.0	3.9	7.9	17.7	27.5	35.4	45.2	51.1	57.0	57.0	53.1
82.5°	2.0	2.0	7.9	15.7	25.6	33.4	43.3	49.2	57.0	59.0	55.1
85°	0.0	2.0	5.9	13.8	21.6	21.6	19.7	19.7	13.8	13.8	13.8
87.5°	0.0	0.0	2.0	2.0	2.0	3.9	3.9	3.9	3.9	3.9	3.9
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°	1776.4	1776.4	1776.4	1776.4	1776.4	1776.4	1776.4	1776.4	1776.4	1776.4	1776.4
2.5°	1792.1	1788.2	1735.1	1701.6	1683.9	1648.5	1626.9	1611.1	1599.3	1585.6	1587.5
5°	1815.7	1801.9	1713.4	1652.4	1579.7	1540.3	1506.9	1479.3	1461.6	1457.7	1449.8
7.5°	1882.6	1809.8	1676.0	1565.9	1473.4	1434.1	1404.6	1386.9	1394.7	1377.0	1390.8
10°	1933.7	1825.6	1630.8	1471.5	1379.0	1349.5	1333.8	1347.5	1367.2	1359.3	1349.5
12.5°	1996.7	1841.3	1558.0	1381.0	1294.4	1272.8	1300.3	1325.9	1365.2	1381.0	1361.3
15°	2067.5	1859.0	1465.6	1276.7	1221.6	1239.3	1286.5	1331.8	1371.1	1390.8	1402.6
17.5°	2154.1	1853.1	1375.1	1194.1	1152.8	1203.9	1261.0	1302.3	1361.3	1390.8	1382.9
20°	2234.7	1833.4	1274.7	1111.5	1113.4	1160.6	1207.9	1274.7	1306.2	1345.6	1331.8
22.5°	2311.4	1798.0	1170.5	1054.4	1054.4	1127.2	1150.8	1194.1	1221.6	1241.3	1239.3
25°	2419.6	1731.1	1083.9	999.3	1022.9	1070.2	1089.8	1103.6	1091.8	1107.5	1109.5
27.5°	2496.4	1662.3	1013.1	950.2	993.4	1028.8	1022.9	1015.1	987.5	965.9	979.7
30°	2579.0	1581.6	952.1	916.7	940.3	971.8	948.2	924.6	881.3	845.9	847.9
32.5°	2697.0	1544.2	899.0	877.4	908.8	912.8	887.2	851.8	808.5	775.1	773.1
35°	2917.3	1520.6	853.8	851.8	857.7	859.7	834.1	790.8	773.1	745.6	755.4
37.5°	3137.7	1508.8	822.3	814.4	812.4	814.4	784.9	743.6	777.0	775.1	779.0
40°	3419.0	1561.9	777.0	767.2	769.2	769.2	731.8	720.0	779.0	784.9	786.9
42.5°	3704.2	1628.8	747.5	716.1	723.9	723.9	704.3	690.5	731.8	692.5	686.5
45°	3952.1	1727.2	716.1	664.9	684.6	694.4	688.5	664.9	639.3	572.5	572.5
47.5°	4032.7	1813.7	678.7	615.7	631.5	674.7	657.0	607.9	562.6	507.5	503.6
50°	4174.4	1908.2	649.2	558.7	592.1	645.2	627.5	578.4	527.2	487.9	489.8
52.5°	4319.9	2016.4	594.1	491.8	533.1	621.6	621.6	566.6	487.9	460.3	456.4
55°	4538.3	2012.4	495.7	403.3	476.1	586.2	596.1	507.5	436.7	415.1	415.1
56°	4569.8	1921.9	446.6	377.7	450.5	576.4	578.4	491.8	417.0	393.4	393.4
57.5°	4333.7	1735.1	391.5	346.2	419.0	558.7	560.6	478.0	401.3	367.9	363.9
60°	3334.4	1174.4	326.6	308.8	379.7	503.6	513.4	434.7	352.1	326.6	324.6
62.5°	1882.6	651.1	287.2	279.3	326.6	428.8	458.4	379.7	299.0	285.2	289.2
65°	859.7	358.0	242.0	226.2	263.6	330.5	369.8	312.8	245.9	230.2	230.2
67.5°	314.8	243.9	206.6	179.0	184.9	214.4	240.0	202.6	163.3	139.7	145.6
70°	224.3	204.6	181.0	155.4	143.6	139.7	137.7	114.1	80.7	63.0	66.9
72.5°	181.0	169.2	151.5	131.8	112.1	94.4	80.7	59.0	37.4	25.6	23.6
75°	129.8	123.9	110.2	94.4	78.7	66.9	55.1	37.4	19.7	9.8	9.8
77.5°	66.9	66.9	64.9	59.0	49.2	39.3	31.5	21.6	11.8	3.9	3.9
80°	51.1	55.1	57.0	51.1	45.2	35.4	25.6	15.7	7.9	2.0	2.0
82.5°	49.2	57.0	61.0	53.1	45.2	33.4	25.6	15.7	7.9	2.0	2.0
85°	11.8	11.8	17.7	19.7	25.6	27.5	21.6	13.8	5.9	2.0	2.0
87.5°	3.9	3.9	3.9	3.9	3.9	3.9	2.0	2.0	2.0	2.0	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)