

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: P530969

Luminaire Tested: **GALN-SA6B-727-U-T2-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P530969
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-SA6B-727-U-T2-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 2700K, 800mA 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: 16646 lumens
Efficiency: N/A
Efficacy: 68.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

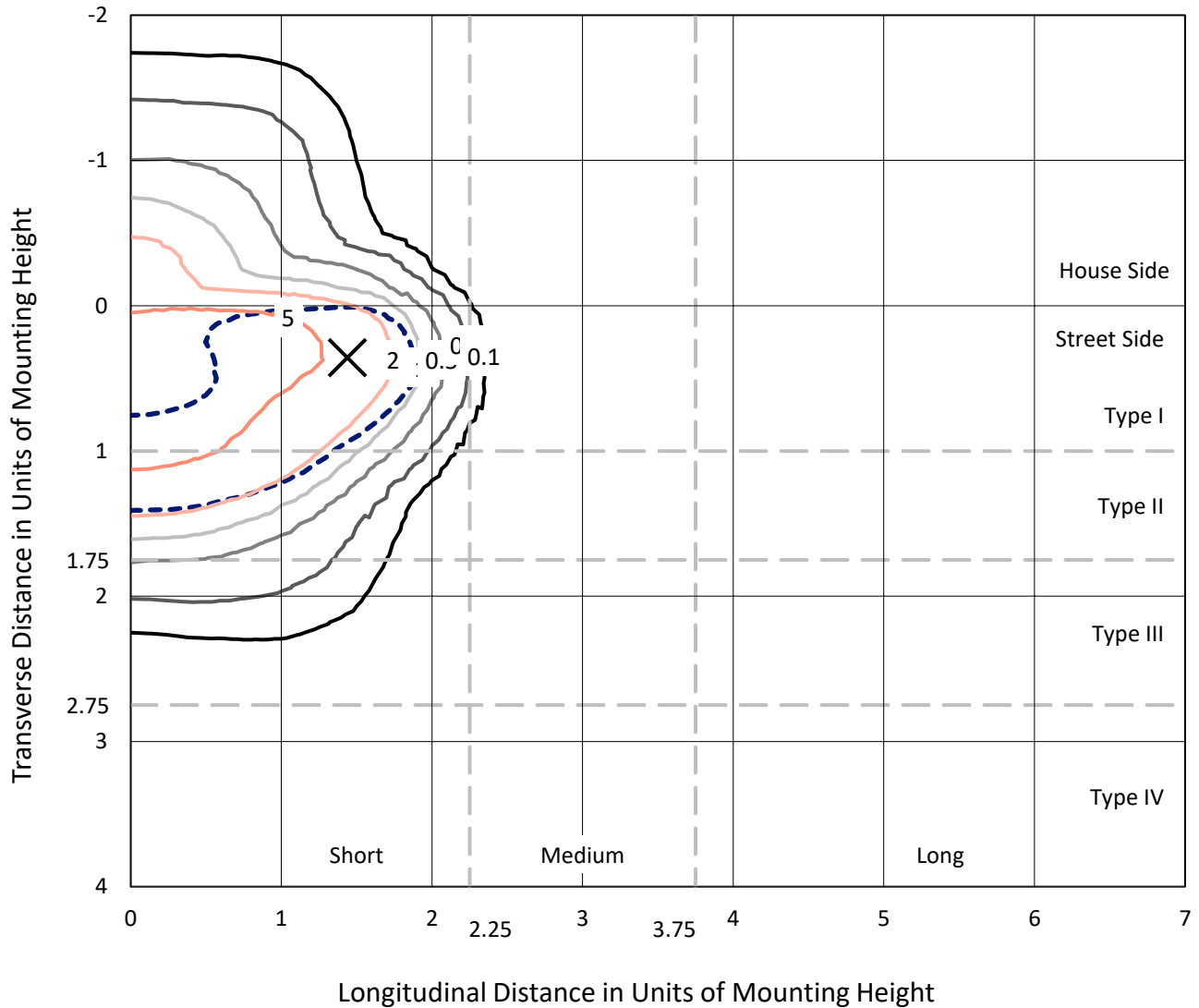
Input Watts (W): 243
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

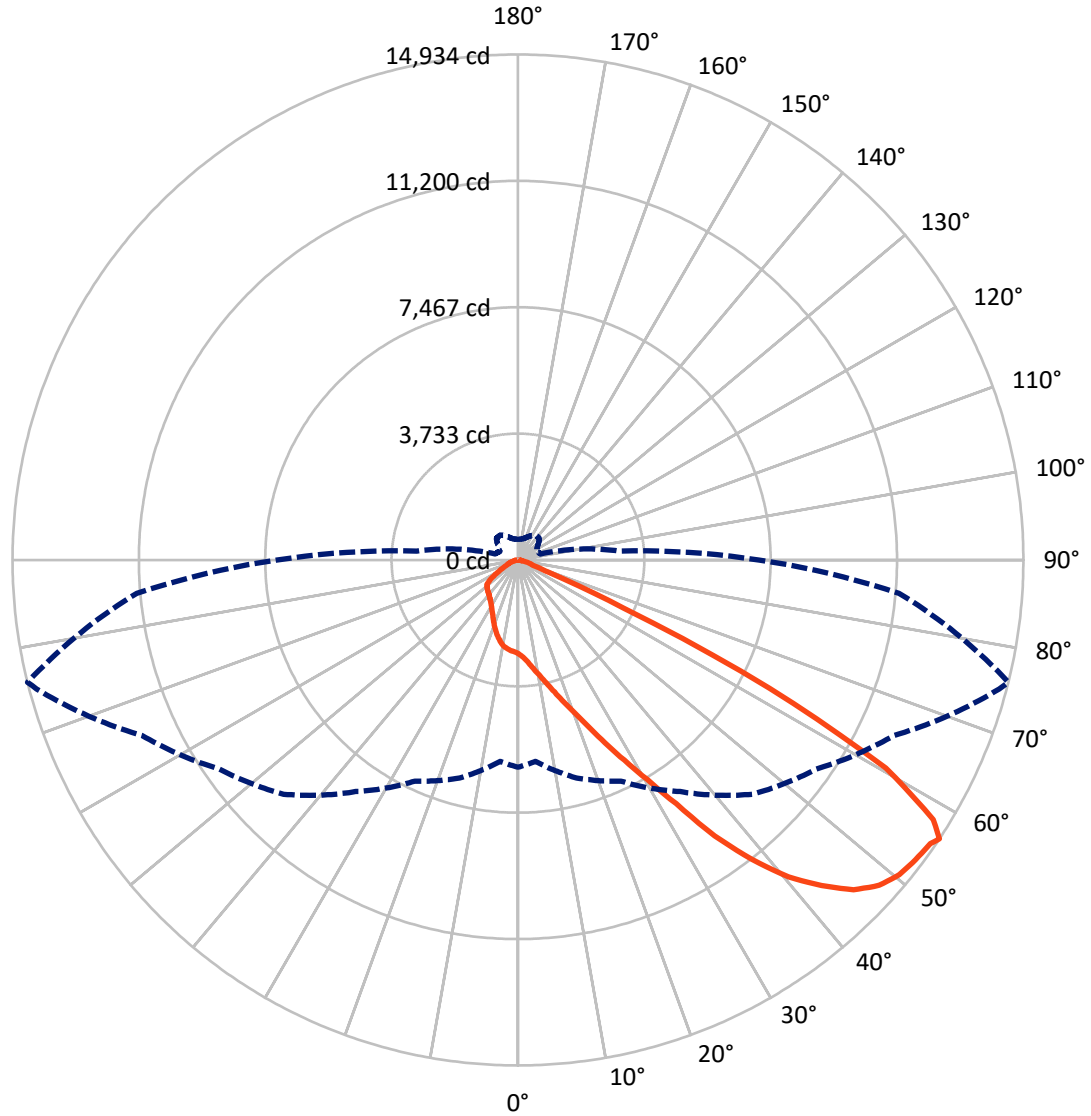
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.8 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	2615.0	0.0	2615.0
	% Fixture	15.7	0.0	15.7
Street Side	Lumens	14031.0	0.0	14031.0
	% Fixture	84.3	0.0	84.3
Total	Lumens	16646.0	0.0	16646.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	279.1	1.7
10°-20°	896.7	5.4
20°-30°	1625.9	9.8
30°-40°	2804.0	16.8
40°-50°	4555.2	27.4
50°-60°	4801.4	28.8
60°-70°	1467.0	8.8
70°-80°	188.1	1.1
80°-90°	28.6	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°	16646.0	100.0
0°-180°	16646.0	100.0

Coefficient of Utilization

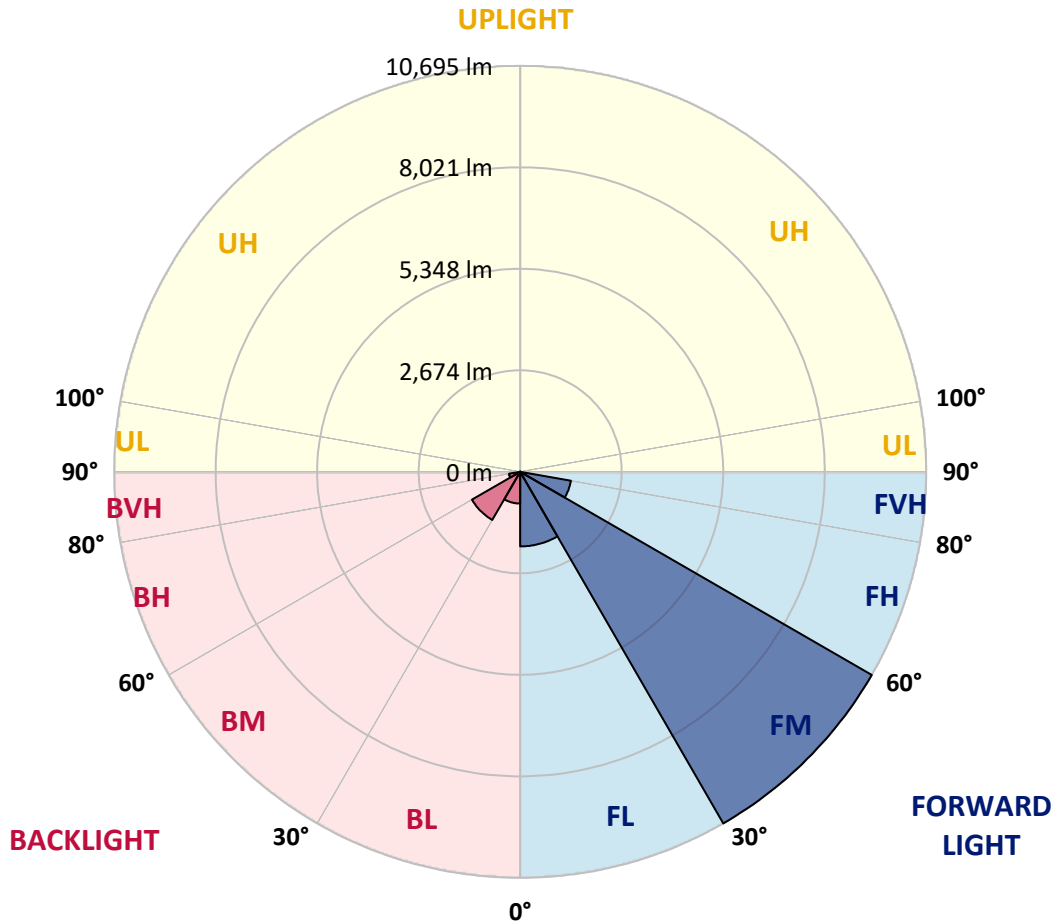


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1965.2	11.8			
FM (30°-60°)	10695.0	64.2			
FH (60°-80°)	1356.8	8.2			G1/1800
FVH (80°-90°)	14.0	0.1			G1/100
BL (0°-30°)	836.5	5.0	B2/1000		
BM (30°-60°)	1465.6	8.8	B2/2500		
BH (60°-80°)	298.3	1.8	B1/500		G1/500
BVH (80°-90°)	14.6	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°	2770.8	2770.8	2770.8	2770.8	2770.8	2770.8	2770.8	2770.8	2770.8	2770.8	2770.8
2.5°	3191.1	3117.5	3120.5	3114.4	3105.2	3071.5	2970.2	2954.9	2887.4	2868.9	2807.6
5°	3574.7	3510.2	3547.1	3491.8	3439.7	3409.0	3243.3	3166.6	3059.2	3019.3	2933.4
7.5°	3814.0	3783.3	3771.0	3774.1	3725.0	3648.3	3574.7	3405.9	3261.7	3231.0	3050.0
10°	3930.6	3912.2	3930.6	3921.4	3942.9	3952.1	3823.2	3722.0	3510.2	3458.1	3175.8
12.5°	3958.2	3995.0	4010.4	4050.3	4102.4	4191.4	4182.2	4044.1	3761.8	3728.1	3369.1
15°	4025.7	4056.4	4041.1	4105.5	4203.7	4354.0	4433.8	4412.3	4108.6	4047.2	3593.1
17.5°	4087.1	4031.9	4084.0	4212.9	4311.1	4541.2	4734.5	4823.5	4486.0	4415.4	3798.7
20°	4169.9	4154.6	4145.4	4209.8	4384.7	4691.6	5075.1	5237.7	4909.4	4835.8	4093.2
22.5°	4421.5	4424.6	4418.5	4323.4	4449.2	4795.9	5372.7	5774.7	5415.7	5354.3	4427.7
25°	4752.9	4713.0	4682.4	4605.6	4590.3	4891.0	5673.4	6431.3	6023.2	5980.3	4789.7
27.5°	5102.7	5102.7	5010.7	4940.1	4841.9	5127.3	5949.6	7069.6	6756.6	6698.3	5105.8
30°	5483.2	5504.7	5492.4	5342.1	5280.7	5385.0	6231.9	7885.7	7597.3	7523.7	5627.4
32.5°	6044.7	5998.7	6050.9	5925.1	5744.0	5836.1	6676.8	8616.0	8689.7	8585.3	6311.7
35°	6787.3	6759.7	6725.9	6520.3	6305.5	6379.2	7305.8	9515.1	10061.2	10009.1	7002.1
37.5°	7453.1	7437.8	7410.1	7269.0	7020.5	7109.4	8020.8	10450.9	11399.1	11227.2	7977.8
40°	8152.7	8235.5	8146.6	8020.8	7793.7	7990.1	8861.5	11006.3	12525.1	12316.5	8723.4
42.5°	9100.8	9036.4	9076.3	8846.2	8723.4	8938.2	9705.3	11561.7	13399.6	13151.1	9515.1
45°	10110.3	10113.4	10006.0	9932.4	9613.3	9846.4	10223.9	11868.5	14096.2	13902.9	10113.4
47.5°	10757.8	10754.7	10871.3	10987.9	10659.6	10429.4	10576.7	12160.0	14455.2	14366.2	10331.3
50°	10656.5	10687.2	10837.5	11273.2	11445.1	11135.2	10908.1	12074.1	14617.8	14608.6	10518.4
52.5°	9269.6	9370.8	9622.5	10251.5	11116.8	11500.3	11254.8	12233.7	14697.6	14712.9	10797.6
55°	7057.3	7112.5	7591.2	8355.2	9312.5	10625.8	11116.8	12359.5	14758.9	14786.5	11135.2
56°	6121.4	5974.1	6664.5	7207.6	8352.1	9788.1	10767.0	12261.3	14722.1	14933.8	11303.9
57.5°	4621.0	4522.8	5081.2	5759.4	6860.9	8376.7	9680.8	11797.9	14473.6	14470.5	11061.5
60°	2810.6	2712.5	3142.0	3540.9	4157.7	5158.0	6541.8	9395.4	12236.7	12494.5	8956.6
62.5°	1672.3	1733.6	2157.1	2399.5	2598.9	2703.2	3384.4	5584.5	8165.0	8349.1	5556.8
65°	1113.8	1135.3	1454.4	1853.3	1942.3	1546.5	1377.7	2261.4	3540.9	3427.4	2292.1
67.5°	687.3	736.4	975.7	1393.0	1543.4	1129.2	653.6	843.8	975.7	975.7	662.8
70°	417.3	441.8	650.5	948.1	1058.6	727.2	475.6	475.6	469.5	460.3	395.8
72.5°	199.4	214.8	331.4	487.9	497.1	383.5	368.2	402.0	392.8	389.7	328.3
75°	85.9	92.1	116.6	153.4	174.9	162.6	224.0	288.4	297.6	288.4	236.3
77.5°	27.6	30.7	43.0	55.2	58.3	70.6	95.1	119.7	138.1	128.9	116.6
80°	3.1	6.1	12.3	27.6	43.0	55.2	70.6	79.8	89.0	89.0	82.8
82.5°	3.1	3.1	12.3	24.5	39.9	52.2	67.5	76.7	89.0	92.1	85.9
85°	0.0	3.1	9.2	21.5	33.8	33.8	30.7	30.7	21.5	21.5	21.5
87.5°	0.0	0.0	3.1	3.1	3.1	6.1	6.1	6.1	6.1	6.1	6.1
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°	2770.8	2770.8	2770.8	2770.8	2770.8	2770.8	2770.8	2770.8	2770.8	2770.8	2770.8
2.5°	2795.3	2789.2	2706.3	2654.2	2626.5	2571.3	2537.6	2513.0	2494.6	2473.1	2476.2
5°	2832.1	2810.6	2672.6	2577.4	2463.9	2402.5	2350.4	2307.4	2279.8	2273.7	2261.4
7.5°	2936.4	2822.9	2614.3	2442.4	2298.2	2236.9	2190.8	2163.2	2175.5	2147.9	2169.3
10°	3016.2	2847.5	2543.7	2295.2	2150.9	2104.9	2080.4	2101.8	2132.5	2120.3	2104.9
12.5°	3114.4	2872.0	2430.2	2154.0	2019.0	1985.2	2028.2	2068.1	2129.5	2154.0	2123.3
15°	3224.9	2899.6	2285.9	1991.4	1905.5	1933.1	2006.7	2077.3	2138.7	2169.3	2187.8
17.5°	3359.9	2890.4	2144.8	1862.5	1798.1	1877.9	1966.8	2031.3	2123.3	2169.3	2157.1
20°	3485.7	2859.7	1988.3	1733.6	1736.7	1810.3	1884.0	1988.3	2037.4	2098.8	2077.3
22.5°	3605.4	2804.5	1825.7	1644.7	1644.7	1758.2	1795.0	1862.5	1905.5	1936.2	1933.1
25°	3774.1	2700.2	1690.7	1558.7	1595.6	1669.2	1699.9	1721.4	1703.0	1727.5	1730.6
27.5°	3893.8	2592.8	1580.2	1482.0	1549.5	1604.8	1595.6	1583.3	1540.3	1506.6	1528.1
30°	4022.7	2467.0	1485.1	1429.9	1466.7	1515.8	1479.0	1442.1	1374.6	1319.4	1322.5
32.5°	4206.8	2408.7	1402.3	1368.5	1417.6	1423.7	1383.8	1328.6	1261.1	1208.9	1205.9
35°	4550.4	2371.9	1331.7	1328.6	1337.8	1340.9	1301.0	1233.5	1205.9	1162.9	1178.3
37.5°	4894.1	2353.5	1282.6	1270.3	1267.2	1270.3	1224.3	1159.8	1212.0	1208.9	1215.1
40°	5332.9	2436.3	1212.0	1196.7	1199.7	1199.7	1141.4	1123.0	1215.1	1224.3	1227.4
42.5°	5777.8	2540.6	1166.0	1116.9	1129.2	1129.2	1098.5	1077.0	1141.4	1080.1	1070.9
45°	6164.4	2694.0	1116.9	1037.1	1067.8	1083.1	1073.9	1037.1	997.2	892.9	892.9
47.5°	6290.2	2829.1	1058.6	960.4	985.0	1052.5	1024.8	948.1	877.6	791.6	785.5
50°	6511.1	2976.3	1012.6	871.4	923.6	1006.4	978.8	902.1	822.3	761.0	764.0
52.5°	6738.2	3145.1	926.7	767.1	831.5	969.6	969.6	883.7	761.0	718.0	711.9
55°	7078.8	3139.0	773.2	629.0	742.5	914.4	929.7	791.6	681.2	647.4	647.4
56°	7127.9	2997.8	696.5	589.1	702.7	899.0	902.1	767.1	650.5	613.7	613.7
57.5°	6759.7	2706.3	610.6	540.0	653.6	871.4	874.5	745.6	626.0	573.8	567.7
60°	5200.9	1831.8	509.4	481.7	592.2	785.5	800.8	678.1	549.2	509.4	506.3
62.5°	2936.4	1015.6	448.0	435.7	509.4	668.9	714.9	592.2	466.4	444.9	451.1
65°	1340.9	558.4	377.4	352.9	411.2	515.5	576.9	487.9	383.5	359.0	359.0
67.5°	490.9	380.5	322.2	279.2	288.4	334.5	374.3	316.0	254.7	217.9	227.1
70°	349.8	319.1	282.3	242.4	224.0	217.9	214.8	178.0	125.8	98.2	104.3
72.5°	282.3	263.9	236.3	205.6	174.9	147.3	125.8	92.1	58.3	39.9	36.8
75°	202.5	193.3	171.8	147.3	122.7	104.3	85.9	58.3	30.7	15.3	15.3
77.5°	104.3	104.3	101.3	92.1	76.7	61.4	49.1	33.8	18.4	6.1	6.1
80°	79.8	85.9	89.0	79.8	70.6	55.2	39.9	24.5	12.3	3.1	3.1
82.5°	76.7	89.0	95.1	82.8	70.6	52.2	39.9	24.5	12.3	3.1	3.1
85°	18.4	18.4	27.6	30.7	39.9	43.0	33.8	21.5	9.2	3.1	3.1
87.5°	6.1	6.1	6.1	6.1	6.1	6.1	3.1	3.1	3.1	3.1	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)