

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: P529799

Luminaire Tested: **GALN-SA5A-727-U-T2-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529799
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-SA5A-727-U-T2-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 2700K, 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: 11298 lumens
Efficiency: N/A
Efficacy: 73.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

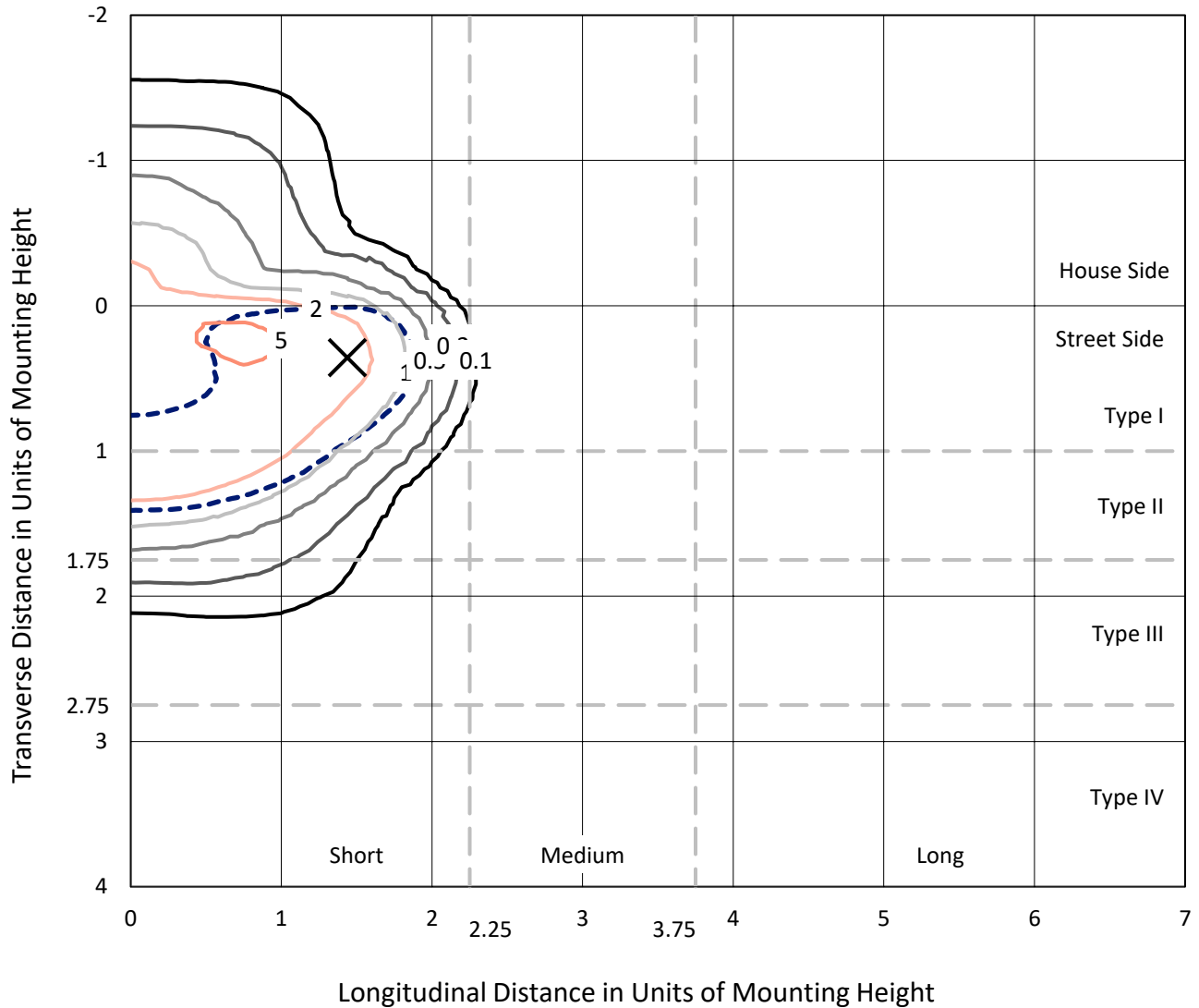
Input Watts (W): 154
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

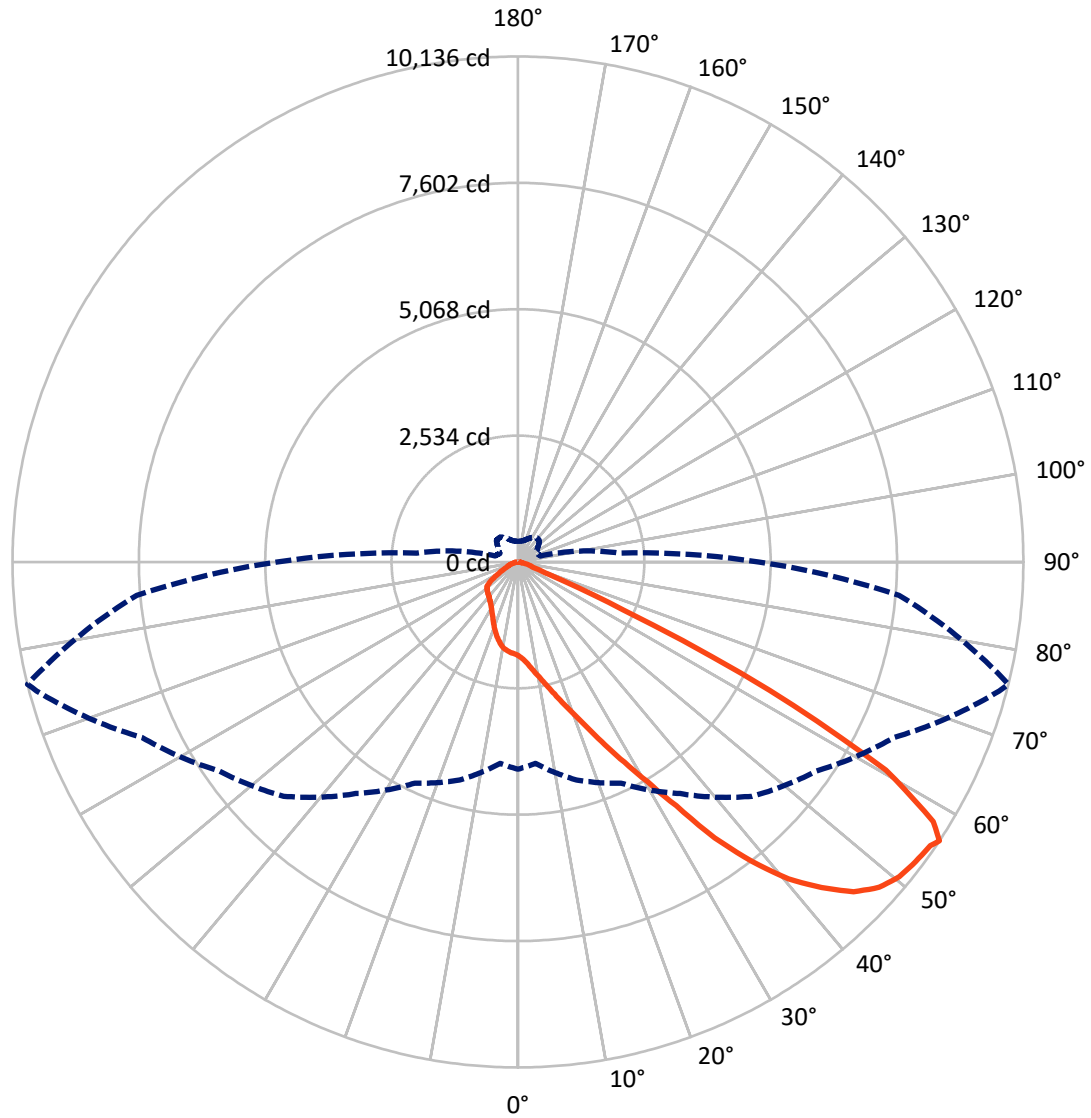
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 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	1774.9	0.0	1774.9
	% Fixture	15.7	0.0	15.7
Street Side	Lumens	9523.2	0.0	9523.2
	% Fixture	84.3	0.0	84.3
Total	Lumens	11298.0	0.0	11298.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	189.4	1.7
10°-20°	608.6	5.4
20°-30°	1103.6	9.8
30°-40°	1903.1	16.8
40°-50°	3091.7	27.4
50°-60°	3258.8	28.8
60°-70°	995.7	8.8
70°-80°	127.6	1.1
80°-90°	19.4	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°	11298.0	100.0
0°-180°	11298.0	100.0

Coefficient of Utilization

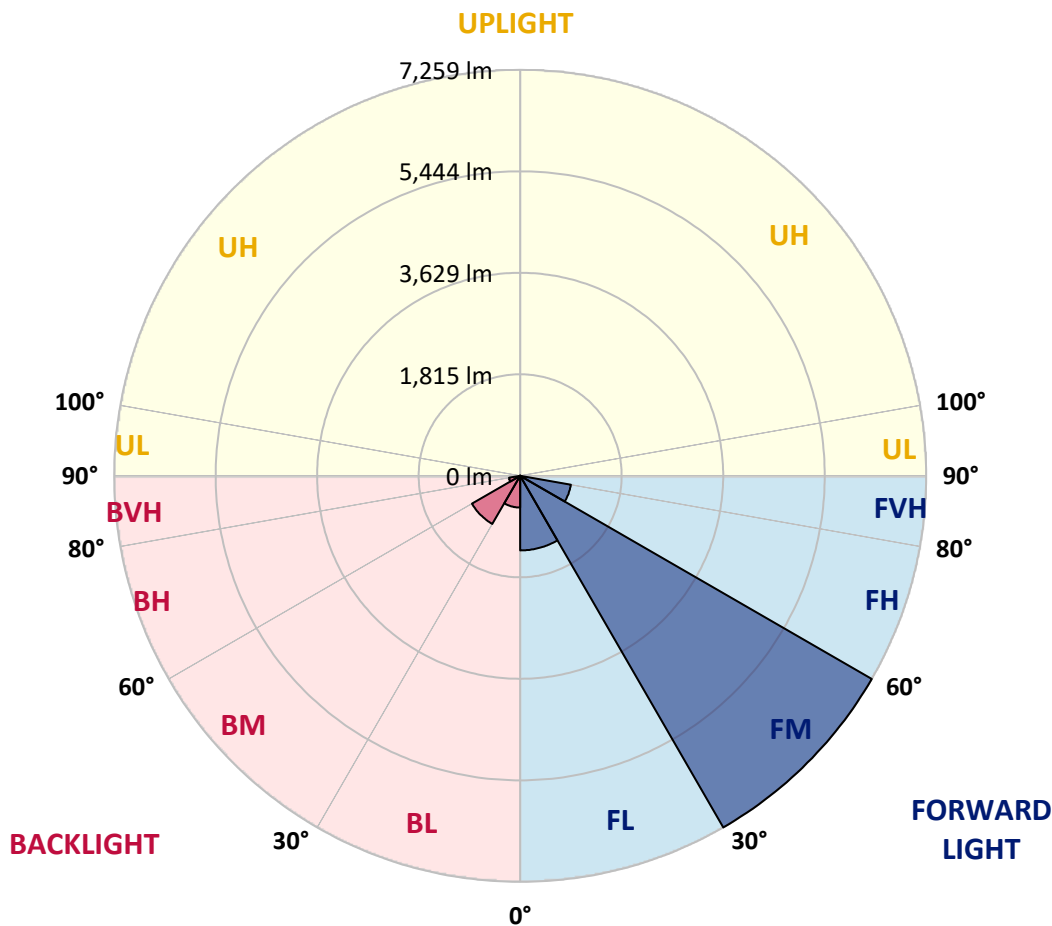


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1333.8	11.8			
FM (30°-60°)	7259.0	64.2			
FH (60°-80°)	920.9	8.2			G1/1800
FVH (80°-90°)	9.5	0.1			G0/10
BL (0°-30°)	567.8	5.0	B2/1000		
BM (30°-60°)	994.7	8.8	B1/1000		
BH (60°-80°)	202.5	1.8	B1/500		G1/500
BVH (80°-90°)	9.9	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°	1880.6	1880.6	1880.6	1880.6	1880.6	1880.6	1880.6	1880.6	1880.6	1880.6	1880.6
2.5°	2165.9	2115.9	2118.0	2113.8	2107.6	2084.7	2015.9	2005.5	1959.7	1947.2	1905.6
5°	2426.2	2382.5	2407.5	2370.0	2334.6	2313.7	2201.3	2149.2	2076.3	2049.3	1990.9
7.5°	2588.6	2567.8	2559.5	2561.6	2528.3	2476.2	2426.2	2311.7	2213.8	2193.0	2070.1
10°	2667.8	2655.3	2667.8	2661.5	2676.1	2682.4	2594.9	2526.2	2382.5	2347.1	2155.5
12.5°	2686.5	2711.5	2721.9	2749.0	2784.4	2844.8	2838.6	2744.8	2553.2	2530.3	2286.7
15°	2732.3	2753.2	2742.8	2786.5	2853.1	2955.2	3009.3	2994.7	2788.6	2746.9	2438.7
17.5°	2774.0	2736.5	2771.9	2859.4	2926.0	3082.2	3213.4	3273.8	3044.7	2996.8	2578.2
20°	2830.2	2819.8	2813.6	2857.3	2976.0	3184.3	3444.6	3555.0	3332.1	3282.1	2778.2
22.5°	3001.0	3003.1	2998.9	2934.4	3019.7	3255.1	3646.6	3919.4	3675.8	3634.1	3005.2
25°	3225.9	3198.8	3178.0	3126.0	3115.5	3319.6	3850.7	4365.1	4088.1	4058.9	3250.9
27.5°	3463.3	3463.3	3400.9	3353.0	3286.3	3480.0	4038.1	4798.3	4585.8	4546.3	3465.4
30°	3721.6	3736.1	3727.8	3625.8	3584.1	3654.9	4229.7	5352.2	5156.5	5106.5	3819.5
32.5°	4102.7	4071.4	4106.8	4021.5	3898.6	3961.1	4531.7	5847.9	5897.9	5827.1	4283.9
35°	4606.7	4587.9	4565.0	4425.5	4279.7	4329.7	4958.6	6458.1	6828.8	6793.4	4752.4
37.5°	5058.6	5048.2	5029.4	4933.6	4764.9	4825.3	5443.9	7093.3	7736.8	7620.2	5414.7
40°	5533.4	5589.6	5529.2	5443.9	5289.8	5423.0	6014.5	7470.2	8501.1	8359.5	5920.8
42.5°	6176.9	6133.2	6160.3	6004.1	5920.8	6066.6	6587.2	7847.2	9094.6	8925.9	6458.1
45°	6862.1	6864.2	6791.3	6741.3	6524.7	6683.0	6939.2	8055.4	9567.4	9436.2	6864.2
47.5°	7301.5	7299.4	7378.6	7457.7	7234.9	7078.7	7178.7	8253.3	9811.0	9750.6	7012.0
50°	7232.8	7253.6	7355.7	7651.4	7768.0	7557.7	7403.6	8194.9	9921.4	9915.2	7139.1
52.5°	6291.5	6360.2	6531.0	6957.9	7545.2	7805.5	7638.9	8303.2	9975.6	9986.0	7328.6
55°	4789.9	4827.4	5152.3	5670.9	6320.6	7212.0	7545.2	8388.6	10017.2	10035.9	7557.7
56°	4154.7	4054.8	4523.4	4892.0	5668.8	6643.4	7307.8	8322.0	9992.2	10135.9	7672.2
57.5°	3136.4	3069.7	3448.8	3909.0	4656.6	5685.4	6570.5	8007.5	9823.5	9821.4	7507.7
60°	1907.6	1841.0	2132.6	2403.3	2821.9	3500.8	4440.1	6376.9	8305.3	8480.3	6079.0
62.5°	1135.0	1176.7	1464.1	1628.6	1763.9	1834.8	2297.1	3790.3	5541.7	5666.7	3771.6
65°	756.0	770.6	987.1	1257.9	1318.3	1049.6	935.1	1534.9	2403.3	2326.2	1555.7
67.5°	466.5	499.8	662.3	945.5	1047.5	766.4	443.6	572.7	662.3	662.3	449.8
70°	283.2	299.9	441.5	643.5	718.5	493.6	322.8	322.8	318.6	312.4	268.7
72.5°	135.4	145.8	224.9	331.1	337.4	260.3	249.9	272.8	266.6	264.5	222.8
75°	58.3	62.5	79.1	104.1	118.7	110.4	152.0	195.8	202.0	195.8	160.4
77.5°	18.7	20.8	29.2	37.5	39.6	47.9	64.6	81.2	93.7	87.5	79.1
80°	2.1	4.2	8.3	18.7	29.2	37.5	47.9	54.1	60.4	60.4	56.2
82.5°	2.1	2.1	8.3	16.7	27.1	35.4	45.8	52.1	60.4	62.5	58.3
85°	0.0	2.1	6.2	14.6	22.9	22.9	20.8	20.8	14.6	14.6	14.6
87.5°	0.0	0.0	2.1	2.1	2.1	4.2	4.2	4.2	4.2	4.2	4.2
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°	1880.6	1880.6	1880.6	1880.6	1880.6	1880.6	1880.6	1880.6	1880.6	1880.6	1880.6
2.5°	1897.2	1893.1	1836.8	1801.4	1782.7	1745.2	1722.3	1705.6	1693.1	1678.6	1680.6
5°	1922.2	1907.6	1813.9	1749.4	1672.3	1630.7	1595.3	1566.1	1547.4	1543.2	1534.9
7.5°	1993.0	1916.0	1774.4	1657.7	1559.9	1518.2	1487.0	1468.2	1476.5	1457.8	1472.4
10°	2047.2	1932.6	1726.5	1557.8	1459.9	1428.6	1412.0	1426.6	1447.4	1439.1	1428.6
12.5°	2113.8	1949.3	1649.4	1462.0	1370.3	1347.4	1376.6	1403.7	1445.3	1462.0	1441.1
15°	2188.8	1968.0	1551.5	1351.6	1293.3	1312.0	1362.0	1409.9	1451.6	1472.4	1484.9
17.5°	2280.4	1961.8	1455.7	1264.1	1220.4	1274.5	1334.9	1378.7	1441.1	1472.4	1464.1
20°	2365.8	1941.0	1349.5	1176.7	1178.7	1228.7	1278.7	1349.5	1382.8	1424.5	1409.9
22.5°	2447.0	1903.5	1239.1	1116.3	1116.3	1193.3	1218.3	1264.1	1293.3	1314.1	1312.0
25°	2561.6	1832.7	1147.5	1058.0	1082.9	1132.9	1153.7	1168.3	1155.8	1172.5	1174.6
27.5°	2642.8	1759.8	1072.5	1005.9	1051.7	1089.2	1082.9	1074.6	1045.5	1022.5	1037.1
30°	2730.3	1674.4	1008.0	970.5	995.5	1028.8	1003.8	978.8	933.0	895.5	897.6
32.5°	2855.2	1634.8	951.7	928.8	962.2	966.3	939.2	901.8	855.9	820.5	818.5
35°	3088.5	1609.8	903.8	901.8	908.0	910.1	883.0	837.2	818.5	789.3	799.7
37.5°	3321.7	1597.3	870.5	862.2	860.1	862.2	830.9	787.2	822.6	820.5	824.7
40°	3619.5	1653.6	822.6	812.2	814.3	814.3	774.7	762.2	824.7	830.9	833.0
42.5°	3921.5	1724.4	791.4	758.1	766.4	766.4	745.6	731.0	774.7	733.1	726.8
45°	4183.9	1828.5	758.1	703.9	724.7	735.2	728.9	703.9	676.8	606.0	606.0
47.5°	4269.3	1920.1	718.5	651.8	668.5	714.3	695.6	643.5	595.6	537.3	533.1
50°	4419.2	2020.1	687.3	591.5	626.9	683.1	664.3	612.3	558.1	516.5	518.6
52.5°	4573.3	2134.6	628.9	520.6	564.4	658.1	658.1	599.8	516.5	487.3	483.2
55°	4804.5	2130.5	524.8	426.9	504.0	620.6	631.0	537.3	462.3	439.4	439.4
56°	4837.8	2034.7	472.7	399.9	476.9	610.2	612.3	520.6	441.5	416.5	416.5
57.5°	4587.9	1836.8	414.4	366.5	443.6	591.5	593.5	506.1	424.8	389.4	385.3
60°	3530.0	1243.3	345.7	327.0	401.9	533.1	543.6	460.3	372.8	345.7	343.6
62.5°	1993.0	689.3	304.1	295.7	345.7	454.0	485.2	401.9	316.6	302.0	306.1
65°	910.1	379.0	256.2	239.5	279.1	349.9	391.5	331.1	260.3	243.7	243.7
67.5°	333.2	258.2	218.7	189.5	195.8	227.0	254.1	214.5	172.9	147.9	154.1
70°	237.4	216.6	191.6	164.5	152.0	147.9	145.8	120.8	85.4	66.6	70.8
72.5°	191.6	179.1	160.4	139.5	118.7	100.0	85.4	62.5	39.6	27.1	25.0
75°	137.5	131.2	116.6	100.0	83.3	70.8	58.3	39.6	20.8	10.4	10.4
77.5°	70.8	70.8	68.7	62.5	52.1	41.7	33.3	22.9	12.5	4.2	4.2
80°	54.1	58.3	60.4	54.1	47.9	37.5	27.1	16.7	8.3	2.1	2.1
82.5°	52.1	60.4	64.6	56.2	47.9	35.4	27.1	16.7	8.3	2.1	2.1
85°	12.5	12.5	18.7	20.8	27.1	29.2	22.9	14.6	6.2	2.1	2.1
87.5°	4.2	4.2	4.2	4.2	4.2	4.2	2.1	2.1	2.1	2.1	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)