

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: P528395

Luminaire Tested: **GALN-SA3C-727-U-T2-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P528395
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-SA3C-727-U-T2-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 2700K, 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: 10354 lumens
Efficiency: N/A
Efficacy: 64.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

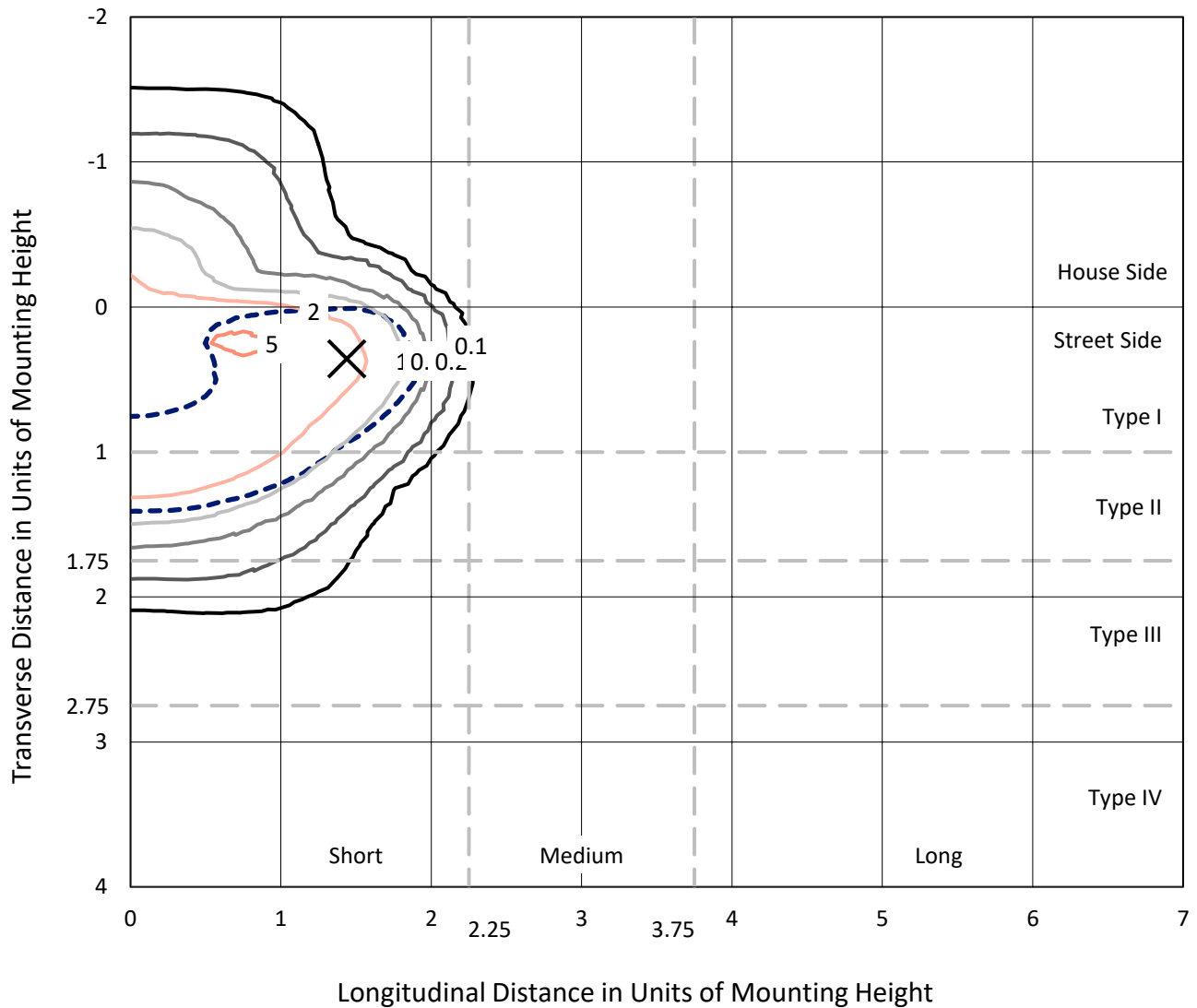
Input Watts (W): 160
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

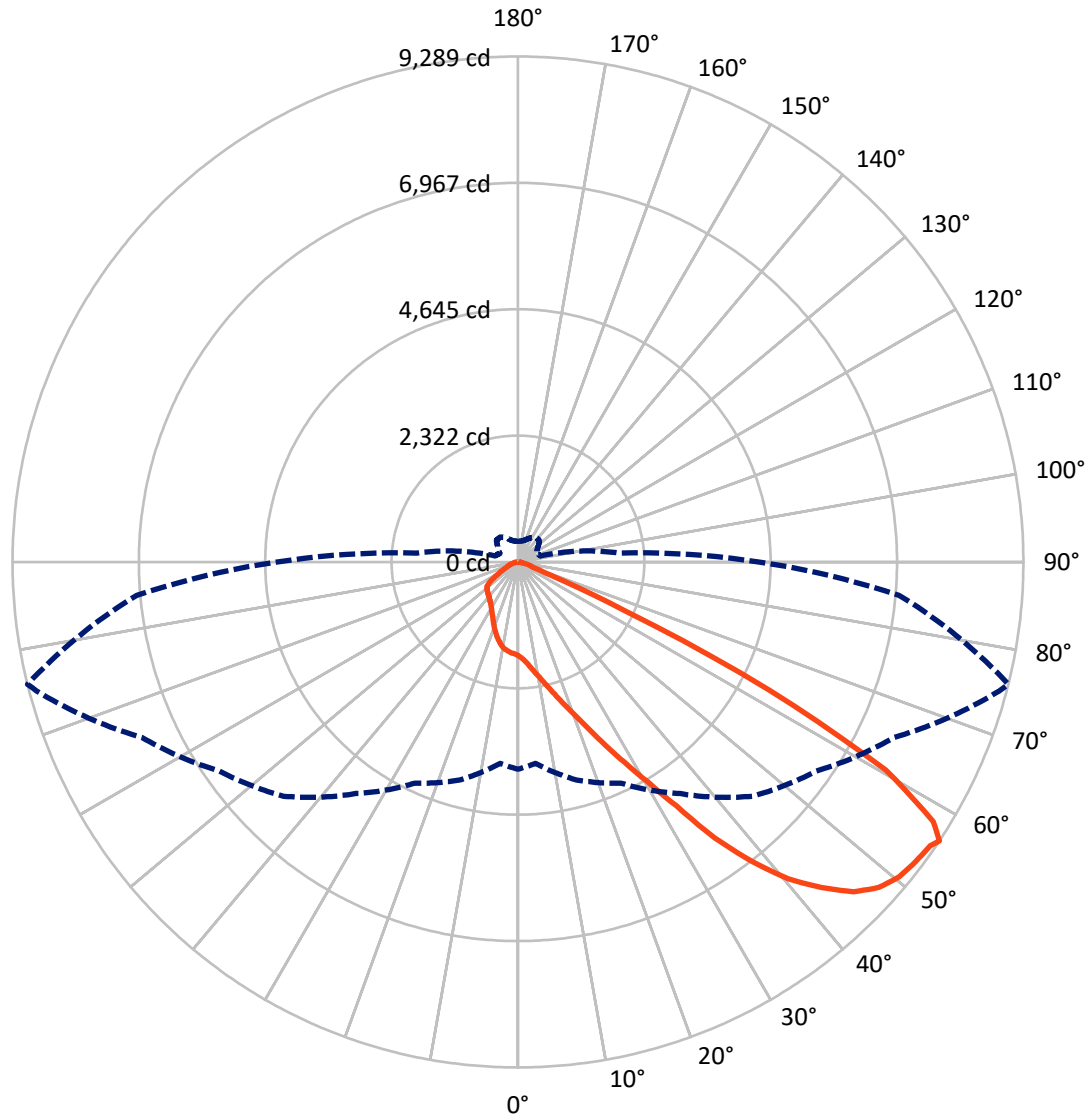
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.5 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	1626.6	0.0	1626.6
	% Fixture	15.7	0.0	15.7
Street Side	Lumens	8727.4	0.0	8727.4
	% Fixture	84.3	0.0	84.3
Total	Lumens	10354.0	0.0	10354.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	173.6	1.7
10°-20°	557.8	5.4
20°-30°	1011.4	9.8
30°-40°	1744.1	16.8
40°-50°	2833.4	27.4
50°-60°	2986.5	28.8
60°-70°	912.5	8.8
70°-80°	117.0	1.1
80°-90°	17.8	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°	10354.0	100.0
0°-180°	10354.0	100.0

Coefficient of Utilization

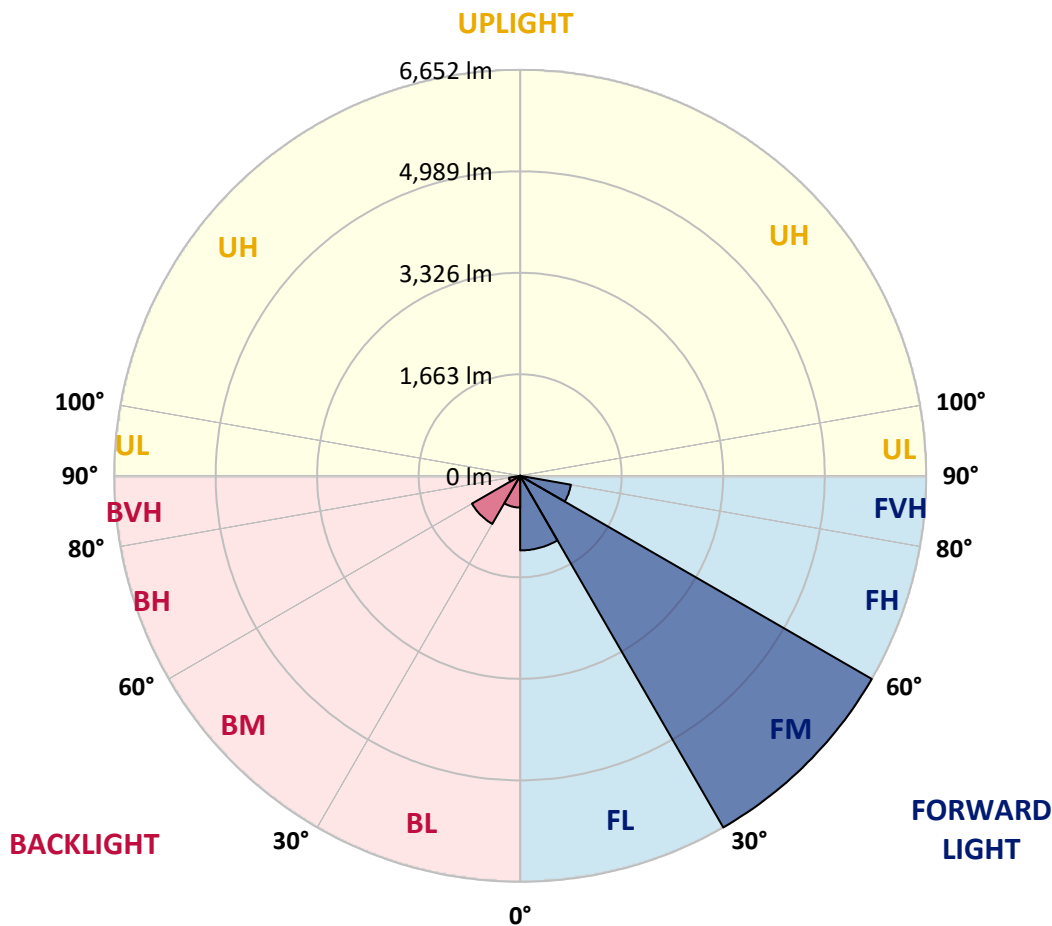


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1222.4	11.8			
FM (30°-60°)	6652.4	64.2			
FH (60°-80°)	843.9	8.2			G1/1800
FVH (80°-90°)	8.7	0.1			G0/10
BL (0°-30°)	520.3	5.0	B2/1000		
BM (30°-60°)	911.6	8.8	B1/1000		
BH (60°-80°)	185.6	1.8	B1/500		G1/500
BVH (80°-90°)	9.1	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°	1723.4	1723.4	1723.4	1723.4	1723.4	1723.4	1723.4	1723.4	1723.4	1723.4	1723.4
2.5°	1984.9	1939.1	1941.0	1937.2	1931.5	1910.5	1847.5	1838.0	1796.0	1784.5	1746.3
5°	2223.5	2183.4	2206.3	2172.0	2139.5	2120.4	2017.4	1969.6	1902.8	1878.0	1824.6
7.5°	2372.4	2353.3	2345.6	2347.5	2317.0	2269.3	2223.5	2118.5	2028.8	2009.7	1897.1
10°	2444.9	2433.4	2444.9	2439.2	2452.5	2458.2	2378.1	2315.1	2183.4	2151.0	1975.4
12.5°	2462.1	2485.0	2494.5	2519.3	2551.8	2607.1	2601.4	2515.5	2339.9	2318.9	2095.6
15°	2504.0	2523.1	2513.6	2553.7	2614.7	2708.3	2757.9	2744.5	2555.6	2517.4	2234.9
17.5°	2542.2	2507.9	2540.3	2620.5	2681.5	2824.7	2944.9	3000.3	2790.3	2746.4	2362.8
20°	2593.7	2584.2	2578.5	2618.6	2727.3	2918.2	3156.8	3257.9	3053.7	3007.9	2546.0
22.5°	2750.2	2752.2	2748.3	2689.2	2767.4	2983.1	3341.9	3591.9	3368.6	3330.5	2754.1
25°	2956.4	2931.6	2912.5	2864.8	2855.2	3042.3	3528.9	4000.4	3746.5	3719.8	2979.3
27.5°	3174.0	3174.0	3116.7	3072.8	3011.7	3189.2	3700.7	4397.3	4202.7	4166.4	3175.9
30°	3410.6	3424.0	3416.3	3322.8	3284.6	3349.5	3876.3	4905.0	4725.6	4679.8	3500.3
32.5°	3759.9	3731.3	3763.7	3685.4	3572.8	3630.1	4153.0	5359.3	5405.1	5340.2	3925.9
35°	4221.8	4204.6	4183.6	4055.7	3922.1	3967.9	4544.3	5918.5	6258.2	6225.8	4355.4
37.5°	4635.9	4626.4	4609.2	4521.4	4366.8	4422.2	4989.0	6500.6	7090.3	6983.5	4962.3
40°	5071.1	5122.6	5067.3	4989.0	4847.8	4969.9	5512.0	6846.0	7790.8	7661.0	5426.1
42.5°	5660.8	5620.7	5645.6	5502.4	5426.1	5559.7	6036.8	7191.5	8334.7	8180.1	5918.5
45°	6288.7	6290.6	6223.8	6178.0	5979.6	6124.6	6359.4	7382.3	8768.0	8647.7	6290.6
47.5°	6691.4	6689.5	6762.1	6834.6	6630.4	6487.2	6578.8	7563.7	8991.3	8935.9	6426.2
50°	6628.5	6647.5	6741.1	7012.1	7119.0	6926.2	6785.0	7510.2	9092.4	9086.7	6542.6
52.5°	5765.8	5828.8	5985.3	6376.5	6914.7	7153.3	7000.6	7609.5	9142.1	9151.6	6716.3
55°	4389.7	4424.1	4721.8	5197.0	5792.5	6609.4	6914.7	7687.7	9180.2	9197.4	6926.2
56°	3807.6	3716.0	4145.4	4483.2	5195.1	6088.3	6697.2	7626.6	9157.3	9289.0	7031.2
57.5°	2874.3	2813.2	3160.6	3582.4	4267.6	5210.4	6021.5	7338.5	9002.7	9000.8	6880.4
60°	1748.3	1687.2	1954.4	2202.5	2586.1	3208.3	4069.1	5844.0	7611.4	7771.7	5571.1
62.5°	1040.2	1078.3	1341.7	1492.5	1616.6	1681.5	2105.2	3473.6	5078.7	5193.2	3456.4
65°	692.8	706.2	904.7	1152.8	1208.1	961.9	856.9	1406.6	2202.5	2131.9	1425.7
67.5°	427.5	458.1	606.9	866.5	960.0	702.4	406.5	524.9	606.9	606.9	412.3
70°	259.6	274.8	404.6	589.7	658.5	452.3	295.8	295.8	292.0	286.3	246.2
72.5°	124.1	133.6	206.1	303.5	309.2	238.6	229.0	250.0	244.3	242.4	204.2
75°	53.4	57.3	72.5	95.4	108.8	101.2	139.3	179.4	185.1	179.4	147.0
77.5°	17.2	19.1	26.7	34.4	36.3	43.9	59.2	74.4	85.9	80.2	72.5
80°	1.9	3.8	7.6	17.2	26.7	34.4	43.9	49.6	55.3	55.3	51.5
82.5°	1.9	1.9	7.6	15.3	24.8	32.4	42.0	47.7	55.3	57.3	53.4
85°	0.0	1.9	5.7	13.4	21.0	21.0	19.1	19.1	13.4	13.4	13.4
87.5°	0.0	0.0	1.9	1.9	1.9	3.8	3.8	3.8	3.8	3.8	3.8
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°	1723.4	1723.4	1723.4	1723.4	1723.4	1723.4	1723.4	1723.4	1723.4	1723.4	1723.4
2.5°	1738.7	1734.9	1683.4	1650.9	1633.7	1599.4	1578.4	1563.1	1551.7	1538.3	1540.2
5°	1761.6	1748.3	1662.4	1603.2	1532.6	1494.4	1462.0	1435.2	1418.1	1414.3	1406.6
7.5°	1826.5	1755.9	1626.1	1519.2	1429.5	1391.3	1362.7	1345.5	1353.2	1336.0	1349.4
10°	1876.1	1771.2	1582.2	1427.6	1337.9	1309.3	1294.0	1307.4	1326.5	1318.8	1309.3
12.5°	1937.2	1786.4	1511.6	1339.8	1255.8	1234.8	1261.6	1286.4	1324.5	1339.8	1320.7
15°	2005.9	1803.6	1421.9	1238.7	1185.2	1202.4	1248.2	1292.1	1330.3	1349.4	1360.8
17.5°	2089.9	1797.9	1334.1	1158.5	1118.4	1168.0	1223.4	1263.5	1320.7	1349.4	1341.7
20°	2168.1	1778.8	1236.8	1078.3	1080.3	1126.1	1171.9	1236.8	1267.3	1305.5	1292.1
22.5°	2242.6	1744.4	1135.6	1023.0	1023.0	1093.6	1116.5	1158.5	1185.2	1204.3	1202.4
25°	2347.5	1679.5	1051.6	969.6	992.5	1038.3	1057.3	1070.7	1059.3	1074.5	1076.4
27.5°	2422.0	1612.7	982.9	921.8	963.8	998.2	992.5	984.8	958.1	937.1	950.5
30°	2502.1	1534.5	923.7	889.4	912.3	942.8	919.9	897.0	855.0	820.7	822.6
32.5°	2616.6	1498.2	872.2	851.2	881.8	885.6	860.8	826.4	784.4	752.0	750.1
35°	2830.4	1475.3	828.3	826.4	832.1	834.0	809.2	767.2	750.1	723.3	732.9
37.5°	3044.2	1463.9	797.8	790.1	788.2	790.1	761.5	721.4	753.9	752.0	755.8
40°	3317.1	1515.4	753.9	744.3	746.3	746.3	710.0	698.5	755.8	761.5	763.4
42.5°	3593.8	1580.3	725.3	694.7	702.4	702.4	683.3	669.9	710.0	671.8	666.1
45°	3834.3	1675.7	694.7	645.1	664.2	673.7	668.0	645.1	620.3	555.4	555.4
47.5°	3912.6	1759.7	658.5	597.4	612.7	654.6	637.5	589.7	545.9	492.4	488.6
50°	4050.0	1851.3	629.8	542.0	574.5	626.0	608.8	561.1	511.5	473.3	475.2
52.5°	4191.2	1956.3	576.4	477.1	517.2	603.1	603.1	549.7	473.3	446.6	442.8
55°	4403.1	1952.5	481.0	391.3	461.9	568.8	578.3	492.4	423.7	402.7	402.7
56°	4433.6	1864.7	433.2	366.4	437.1	559.2	561.1	477.1	404.6	381.7	381.7
57.5°	4204.6	1683.4	379.8	335.9	406.5	542.0	543.9	463.8	389.3	356.9	353.1
60°	3235.0	1139.4	316.8	299.6	368.4	488.6	498.1	421.8	341.6	316.8	314.9
62.5°	1826.5	631.7	278.7	271.0	316.8	416.1	444.7	368.4	290.1	276.7	280.6
65°	834.0	347.4	234.8	219.5	255.7	320.6	358.8	303.5	238.6	223.3	223.3
67.5°	305.4	236.7	200.4	173.7	179.4	208.0	232.8	196.6	158.4	135.5	141.2
70°	217.6	198.5	175.6	150.8	139.3	135.5	133.6	110.7	78.3	61.1	64.9
72.5°	175.6	164.1	147.0	127.9	108.8	91.6	78.3	57.3	36.3	24.8	22.9
75°	126.0	120.2	106.9	91.6	76.3	64.9	53.4	36.3	19.1	9.5	9.5
77.5°	64.9	64.9	63.0	57.3	47.7	38.2	30.5	21.0	11.5	3.8	3.8
80°	49.6	53.4	55.3	49.6	43.9	34.4	24.8	15.3	7.6	1.9	1.9
82.5°	47.7	55.3	59.2	51.5	43.9	32.4	24.8	15.3	7.6	1.9	1.9
85°	11.5	11.5	17.2	19.1	24.8	26.7	21.0	13.4	5.7	1.9	1.9
87.5°	3.8	3.8	3.8	3.8	3.8	3.8	1.9	1.9	1.9	1.9	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)