

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: P528551

Luminaire Tested: **GALN-SA3C-827-U-T2-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P528551  
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-827-U-T2-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 80 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: 9101 lumens  
Efficiency: N/A  
Efficacy: 56.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G1

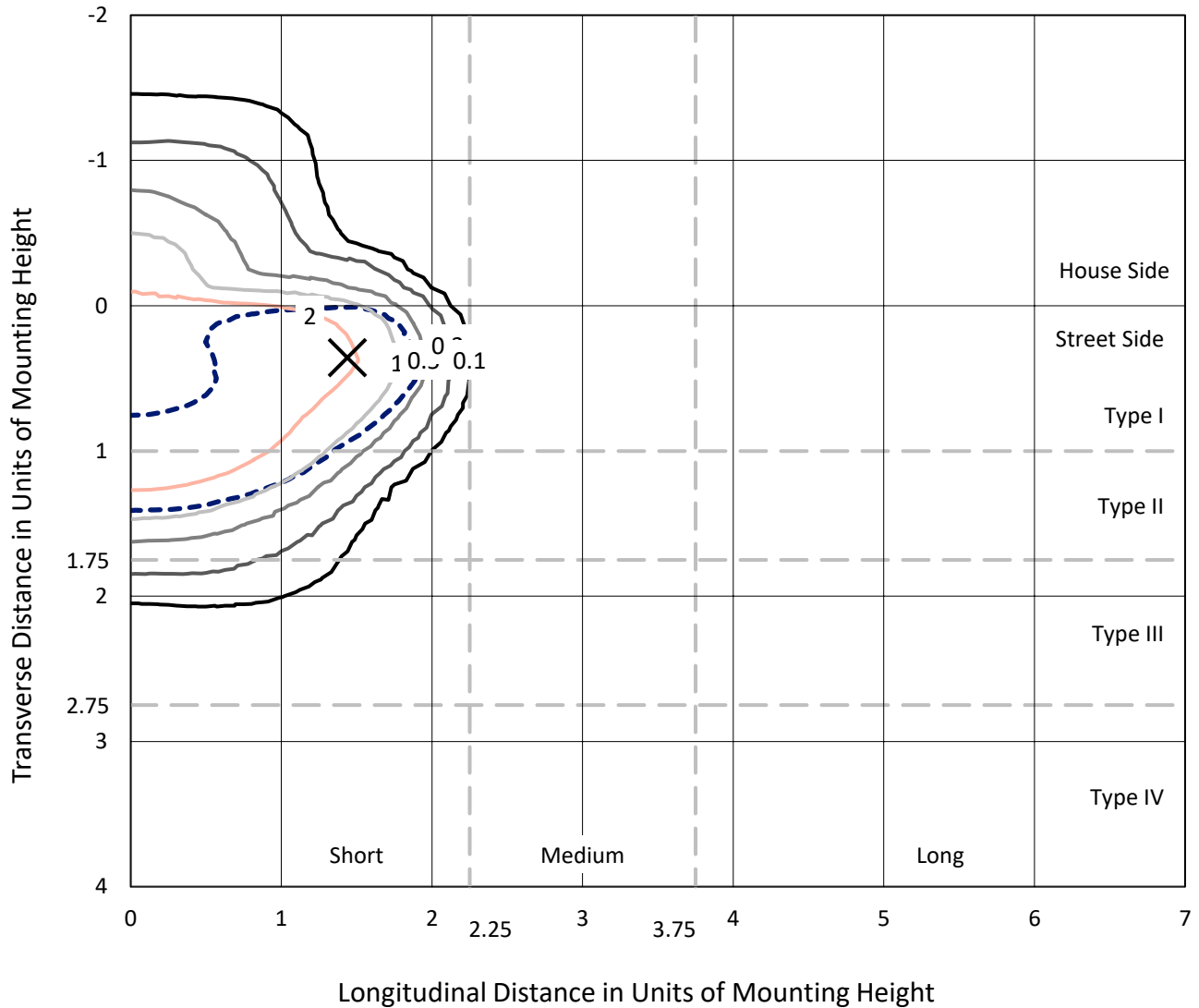
Input Watts (W): 160  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

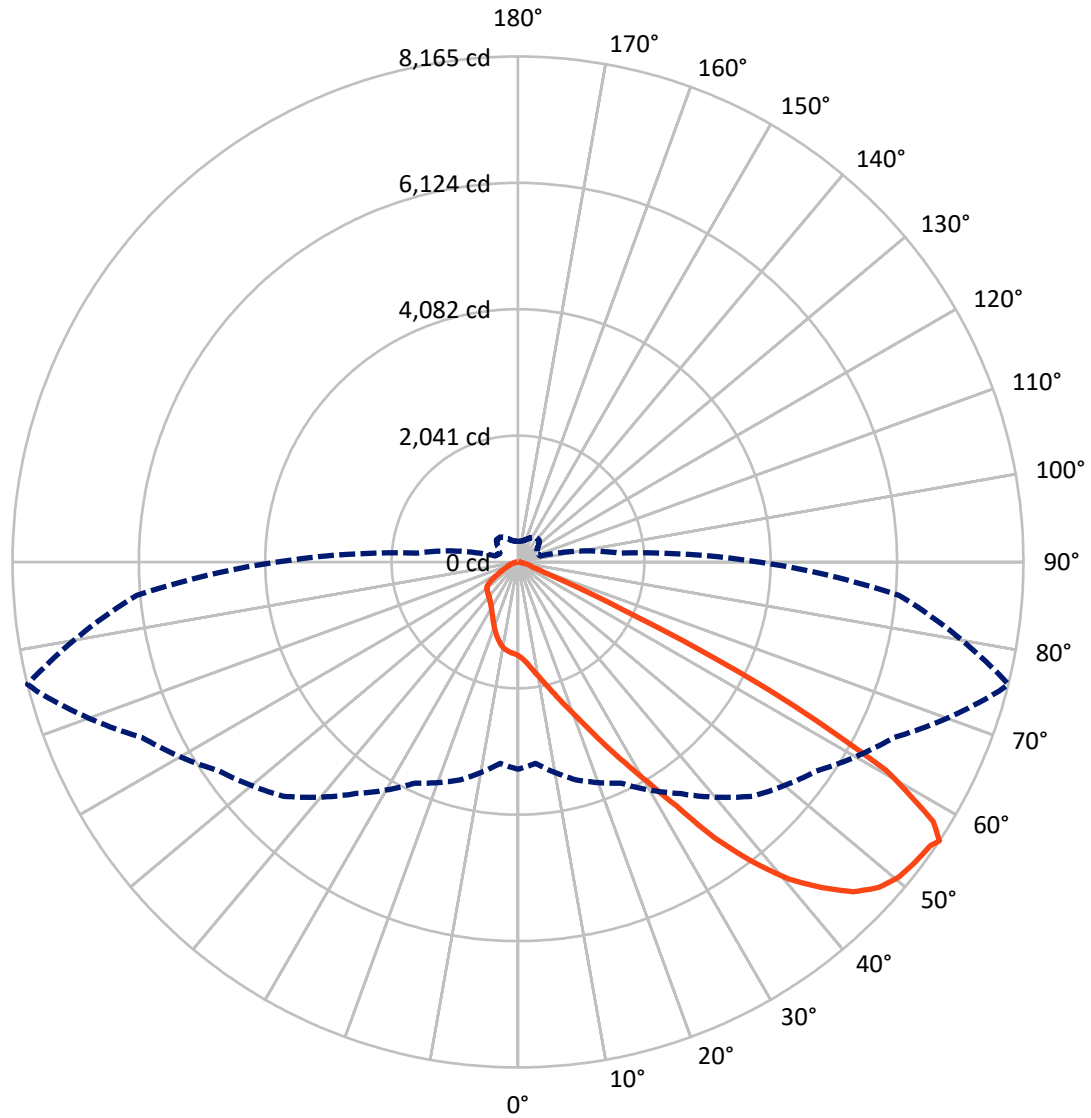
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.8 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
<b>House Side</b>	Lumens	1429.7	0.0	1429.7
	% Fixture	15.7	0.0	15.7
<b>Street Side</b>	Lumens	7671.3	0.0	7671.3
	% Fixture	84.3	0.0	84.3
<b>Total</b>	Lumens	9101.0	0.0	9101.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	152.6	1.7
10°-20°	490.3	5.4
20°-30°	889.0	9.8
30°-40°	1533.1	16.8
40°-50°	2490.5	27.4
50°-60°	2625.1	28.8
60°-70°	802.1	8.8
70°-80°	102.8	1.1
80°-90°	15.6	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°	9101.0	100.0
0°-180°	9101.0	100.0

**Coefficient of Utilization**

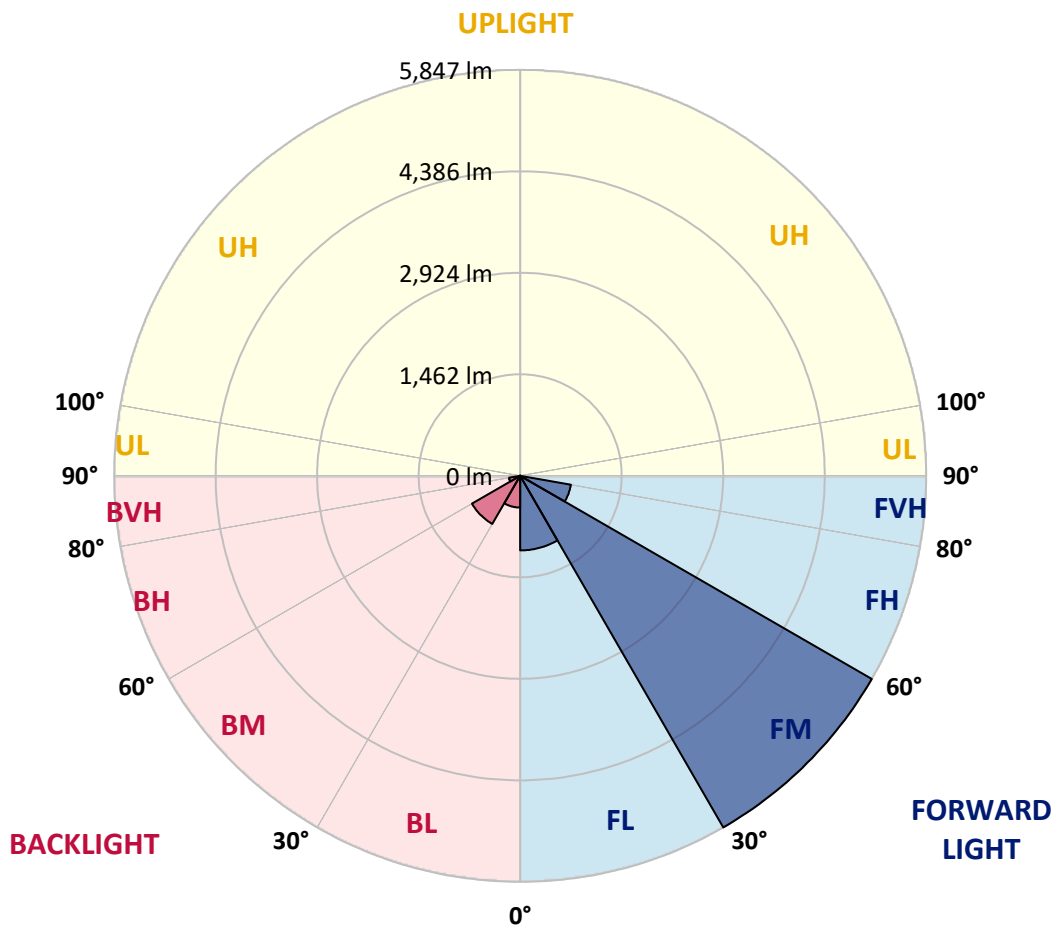


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1074.5	11.8			
FM (30°-60°)	5847.4	64.2			
FH (60°-80°)	741.8	8.2			G1/1800
FVH (80°-90°)	7.7	0.1			G0/10
BL (0°-30°)	457.4	5.0	B1/500		
BM (30°-60°)	801.3	8.8	B1/1000		
BH (60°-80°)	163.1	1.8	B1/500		G1/500
BVH (80°-90°)	8.0	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G1**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1514.9	1514.9	1514.9	1514.9	1514.9	1514.9	1514.9	1514.9	1514.9	1514.9	1514.9
2.5°	1744.7	1704.4	1706.1	1702.8	1697.7	1679.3	1623.9	1615.5	1578.6	1568.6	1535.0
5°	1954.4	1919.2	1939.3	1909.1	1880.6	1863.8	1773.2	1731.3	1672.6	1650.8	1603.8
7.5°	2085.3	2068.5	2061.8	2063.5	2036.6	1994.7	1954.4	1862.1	1783.3	1766.5	1667.5
10°	2149.0	2138.9	2149.0	2144.0	2155.7	2160.8	2090.3	2034.9	1919.2	1890.7	1736.3
12.5°	2164.1	2184.2	2192.6	2214.4	2243.0	2291.6	2286.6	2211.1	2056.7	2038.3	1842.0
15°	2201.0	2217.8	2209.4	2244.6	2298.3	2380.5	2424.1	2412.4	2246.3	2212.8	1964.5
17.5°	2234.6	2204.4	2232.9	2303.3	2357.0	2482.9	2588.5	2637.2	2452.7	2414.1	2076.9
20°	2279.9	2271.5	2266.4	2301.7	2397.3	2565.1	2774.8	2863.7	2684.2	2643.9	2237.9
22.5°	2417.4	2419.1	2415.7	2363.7	2432.5	2622.1	2937.5	3157.2	2961.0	2927.4	2420.8
25°	2598.6	2576.8	2560.0	2518.1	2509.7	2674.1	3101.9	3516.3	3293.1	3269.6	2618.7
27.5°	2789.9	2789.9	2739.5	2700.9	2647.3	2803.3	3252.9	3865.2	3694.1	3662.2	2791.5
30°	2997.9	3009.6	3002.9	2920.7	2887.2	2944.2	3407.2	4311.4	4153.7	4113.5	3076.7
32.5°	3304.9	3279.7	3308.2	3239.5	3140.5	3190.8	3650.5	4710.7	4751.0	4693.9	3450.8
35°	3710.9	3695.8	3677.3	3564.9	3447.5	3487.7	3994.4	5202.2	5500.9	5472.3	3828.3
37.5°	4074.9	4066.5	4051.4	3974.2	3838.4	3887.0	4385.3	5713.9	6232.3	6138.3	4361.8
40°	4457.4	4502.7	4454.0	4385.3	4261.1	4368.5	4844.9	6017.6	6848.0	6733.9	4769.4
42.5°	4975.8	4940.5	4962.3	4836.5	4769.4	4886.9	5306.3	6321.2	7326.1	7190.2	5202.2
45°	5527.7	5529.4	5470.7	5430.4	5255.9	5383.4	5589.8	6489.0	7706.9	7601.2	5529.4
47.5°	5881.7	5880.0	5943.7	6007.5	5828.0	5702.2	5782.7	6648.3	7903.2	7854.5	5648.5
50°	5826.3	5843.1	5925.3	6163.5	6257.5	6088.0	5963.9	6601.4	7992.1	7987.1	5750.8
52.5°	5068.0	5123.4	5261.0	5604.9	6078.0	6287.7	6153.4	6688.6	8035.7	8044.1	5903.5
55°	3858.5	3888.7	4150.4	4568.1	5091.5	5809.5	6078.0	6757.4	8069.3	8084.4	6088.0
56°	3346.8	3266.3	3643.8	3940.7	4566.4	5351.6	5886.7	6703.7	8049.1	8164.9	6180.3
57.5°	2526.5	2472.8	2778.1	3148.9	3751.1	4579.9	5292.8	6450.4	7913.3	7911.6	6047.8
60°	1536.7	1483.0	1717.9	1936.0	2273.2	2820.0	3576.6	5136.8	6690.3	6831.2	4896.9
62.5°	914.3	947.8	1179.4	1311.9	1420.9	1478.0	1850.4	3053.2	4464.1	4564.8	3038.1
65°	609.0	620.7	795.2	1013.3	1061.9	845.5	753.2	1236.4	1936.0	1873.9	1253.2
67.5°	375.8	402.6	533.5	761.6	843.8	617.4	357.3	461.3	533.5	533.5	362.4
70°	228.2	241.6	355.7	518.4	578.8	397.6	260.0	260.0	256.7	251.6	216.4
72.5°	109.0	117.4	181.2	266.7	271.8	209.7	201.3	219.8	214.7	213.1	179.5
75°	47.0	50.3	63.7	83.9	95.6	88.9	122.5	157.7	162.7	157.7	129.2
77.5°	15.1	16.8	23.5	30.2	31.9	38.6	52.0	65.4	75.5	70.5	63.7
80°	1.7	3.4	6.7	15.1	23.5	30.2	38.6	43.6	48.7	48.7	45.3
82.5°	1.7	1.7	6.7	13.4	21.8	28.5	36.9	41.9	48.7	50.3	47.0
85°	0.0	1.7	5.0	11.7	18.5	18.5	16.8	16.8	11.7	11.7	11.7
87.5°	0.0	0.0	1.7	1.7	1.7	3.4	3.4	3.4	3.4	3.4	3.4
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°	1514.9	1514.9	1514.9	1514.9	1514.9	1514.9	1514.9	1514.9	1514.9	1514.9	1514.9
2.5°	1528.3	1524.9	1479.6	1451.1	1436.0	1405.8	1387.4	1374.0	1363.9	1352.1	1353.8
5°	1548.4	1536.7	1461.2	1409.2	1347.1	1313.6	1285.0	1261.6	1246.5	1243.1	1236.4
7.5°	1605.5	1543.4	1429.3	1335.4	1256.5	1223.0	1197.8	1182.7	1189.4	1174.3	1186.1
10°	1649.1	1556.8	1390.7	1254.8	1176.0	1150.8	1137.4	1149.2	1165.9	1159.2	1150.8
12.5°	1702.8	1570.2	1328.7	1177.7	1103.9	1085.4	1108.9	1130.7	1164.3	1177.7	1160.9
15°	1763.2	1585.3	1249.8	1088.8	1041.8	1056.9	1097.2	1135.7	1169.3	1186.1	1196.1
17.5°	1837.0	1580.3	1172.6	1018.3	983.1	1026.7	1075.3	1110.6	1160.9	1186.1	1179.4
20°	1905.8	1563.5	1087.1	947.8	949.5	989.8	1030.0	1087.1	1113.9	1147.5	1135.7
22.5°	1971.2	1533.3	998.2	899.2	899.2	961.3	981.4	1018.3	1041.8	1058.6	1056.9
25°	2063.5	1476.3	924.4	852.2	872.4	912.6	929.4	941.1	931.1	944.5	946.2
27.5°	2128.9	1417.6	864.0	810.3	847.2	877.4	872.4	865.6	842.2	823.7	835.4
30°	2199.3	1348.8	812.0	781.8	801.9	828.7	808.6	788.5	751.6	721.4	723.0
32.5°	2300.0	1316.9	766.7	748.2	775.1	778.4	756.6	726.4	689.5	661.0	659.3
35°	2487.9	1296.8	728.1	726.4	731.4	733.1	711.3	674.4	659.3	635.8	644.2
37.5°	2675.8	1286.7	701.2	694.5	692.8	694.5	669.4	634.1	662.7	661.0	664.3
40°	2915.7	1332.0	662.7	654.3	655.9	655.9	624.1	614.0	664.3	669.4	671.0
42.5°	3158.9	1389.1	637.5	610.6	617.4	617.4	600.6	588.8	624.1	590.5	585.5
45°	3370.3	1472.9	610.6	567.0	583.8	592.2	587.2	567.0	545.2	488.2	488.2
47.5°	3439.1	1546.7	578.8	525.1	538.5	575.4	560.3	518.4	479.8	432.8	429.5
50°	3559.9	1627.3	553.6	476.4	505.0	550.3	535.2	493.2	449.6	416.0	417.7
52.5°	3684.0	1719.5	506.6	419.4	454.6	530.1	530.1	483.1	416.0	392.6	389.2
55°	3870.2	1716.2	422.8	343.9	406.0	499.9	508.3	432.8	372.4	354.0	354.0
56°	3897.1	1639.0	380.8	322.1	384.2	491.5	493.2	419.4	355.7	335.5	335.5
57.5°	3695.8	1479.6	333.8	295.3	357.3	476.4	478.1	407.7	342.2	313.7	310.4
60°	2843.5	1001.5	278.5	263.4	323.8	429.5	437.9	370.8	300.3	278.5	276.8
62.5°	1605.5	555.3	244.9	238.2	278.5	365.7	390.9	323.8	255.0	243.3	246.6
65°	733.1	305.3	206.3	192.9	224.8	281.8	315.4	266.7	209.7	196.3	196.3
67.5°	268.4	208.0	176.1	152.7	157.7	182.9	204.7	172.8	139.2	119.1	124.1
70°	191.2	174.5	154.3	132.5	122.5	119.1	117.4	97.3	68.8	53.7	57.0
72.5°	154.3	144.3	129.2	112.4	95.6	80.5	68.8	50.3	31.9	21.8	20.1
75°	110.7	105.7	93.9	80.5	67.1	57.0	47.0	31.9	16.8	8.4	8.4
77.5°	57.0	57.0	55.4	50.3	41.9	33.6	26.8	18.5	10.1	3.4	3.4
80°	43.6	47.0	48.7	43.6	38.6	30.2	21.8	13.4	6.7	1.7	1.7
82.5°	41.9	48.7	52.0	45.3	38.6	28.5	21.8	13.4	6.7	1.7	1.7
85°	10.1	10.1	15.1	16.8	21.8	23.5	18.5	11.7	5.0	1.7	1.7
87.5°	3.4	3.4	3.4	3.4	3.4	3.4	1.7	1.7	1.7	1.7	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)