

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: P651193

Luminaire Tested: **GALN-SA1D-840-U-T2-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P651193  
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-SA1D-840-U-T2-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 80 CRI, 4000K, 1200mA LIGHTSQUARE WITH 16 LEDS AND TYPE II OPTICS  
WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3882.9 lumens  
Efficiency: N/A  
Efficacy: 59.7 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G0

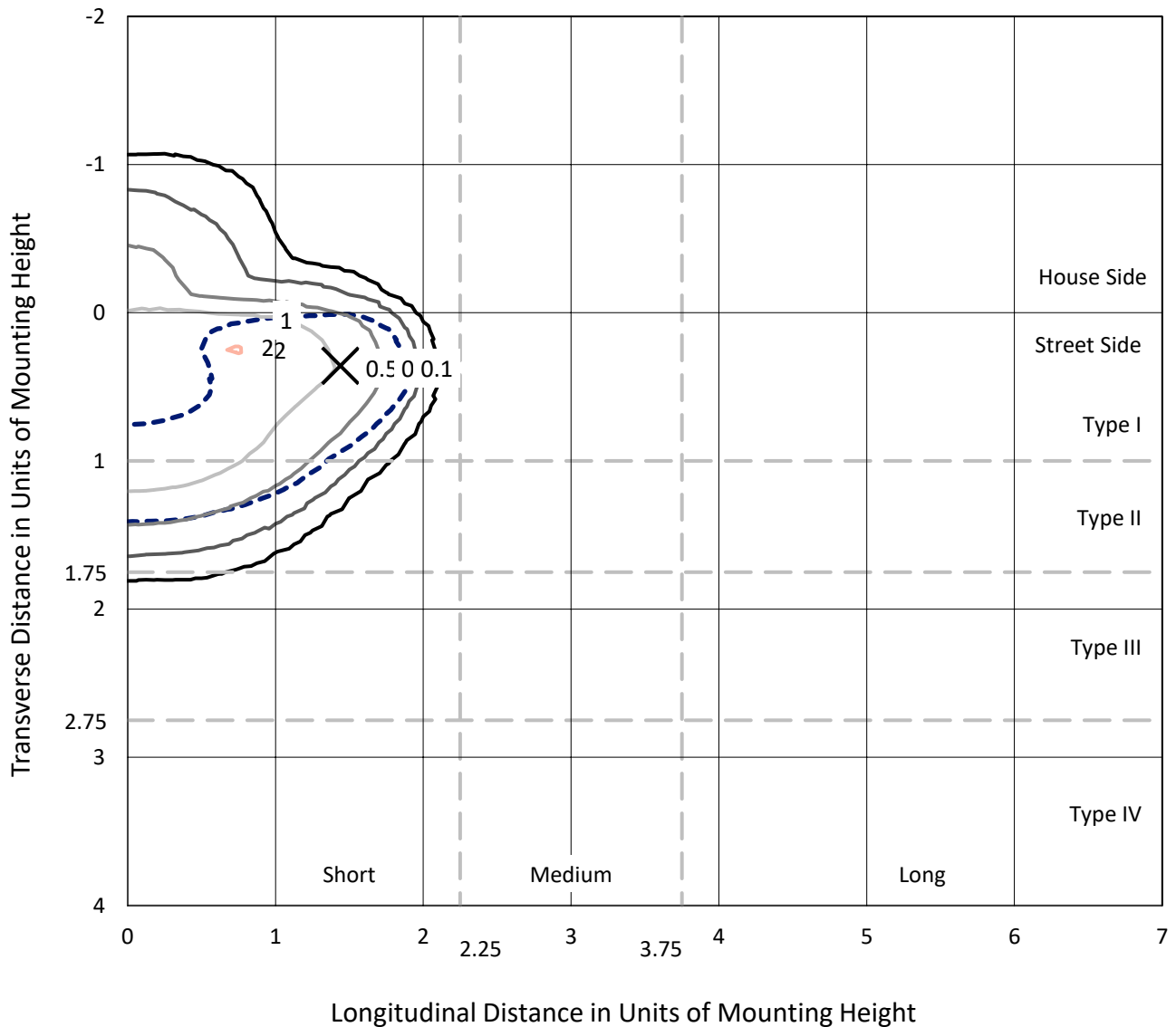
Input Watts (W): 65  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

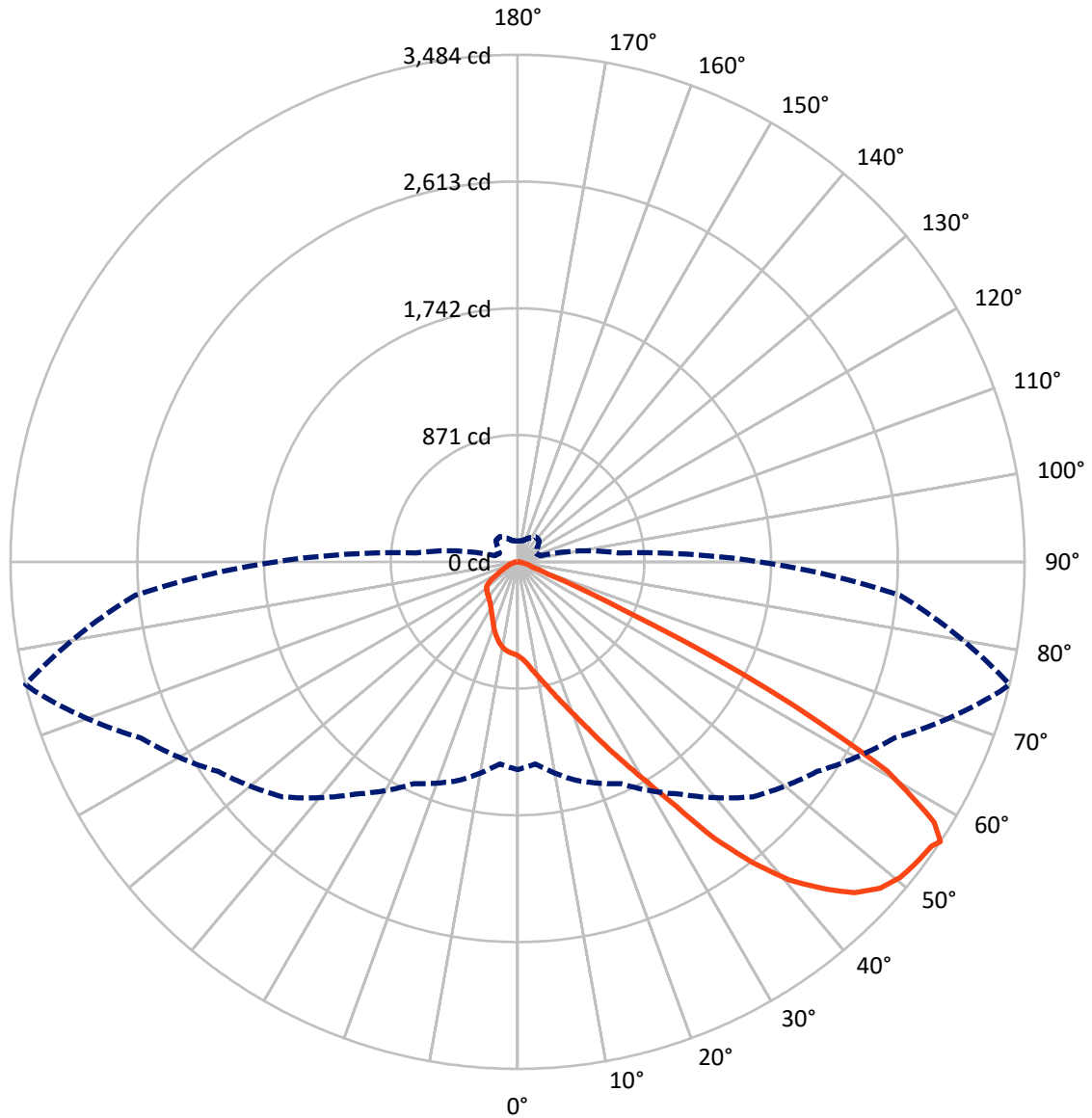
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.1 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	610.0	0.0	610.0
	% Fixture	15.7	0.0	15.7
<b>Street Side</b>	Lumens	3272.9	0.0	3272.9
	% Fixture	84.3	0.0	84.3
<b>Total</b>	Lumens	3882.9	0.0	3882.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	65.1	1.7
10°-20°	209.2	5.4
20°-30°	379.3	9.8
30°-40°	654.1	16.8
40°-50°	1062.6	27.4
50°-60°	1120.0	28.8
60°-70°	342.2	8.8
70°-80°	43.9	1.1
80°-90°	6.7	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°	3882.9	100.0
0°-180°	3882.9	100.0

**Coefficient of Utilization**

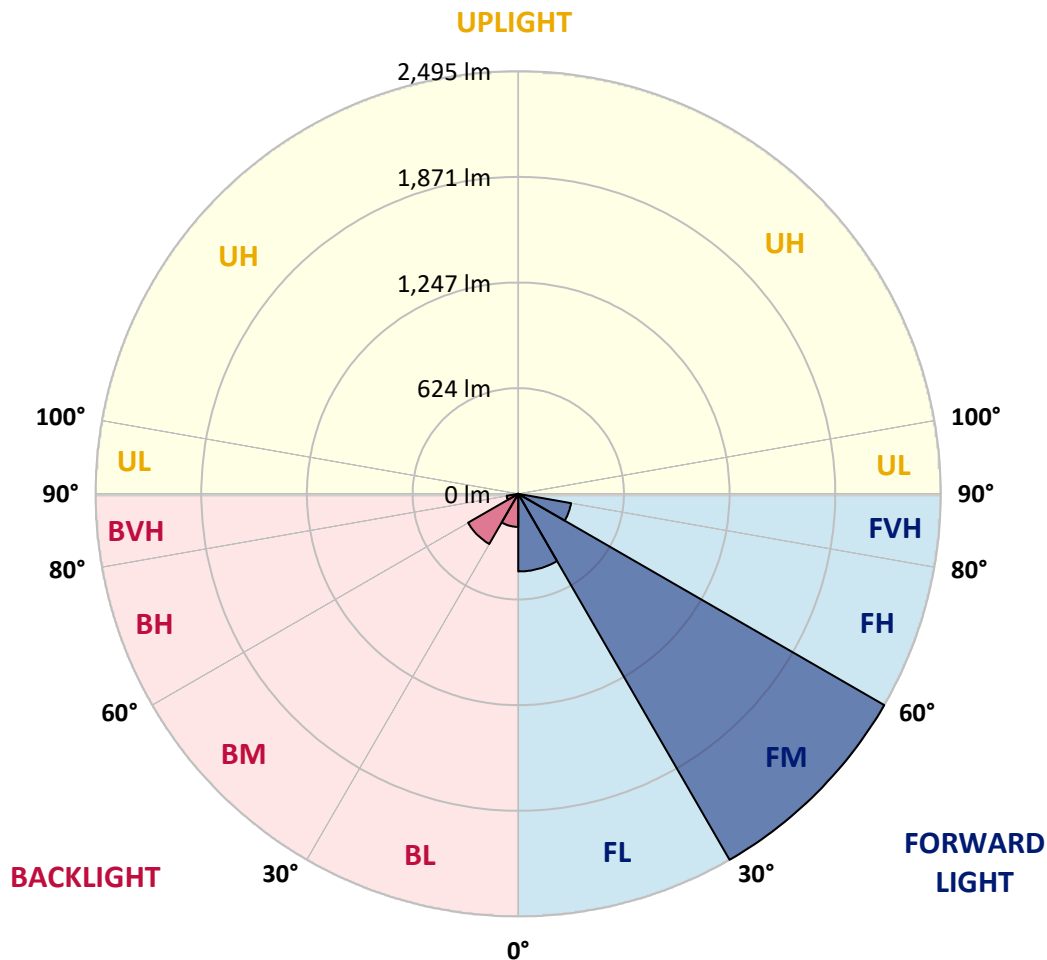


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	458.4	11.8			
FM (30°-60°)	2494.8	64.2			
FH (60°-80°)	316.5	8.2			G0/660
FVH (80°-90°)	3.3	0.1			G0/10
BL (0°-30°)	195.1	5.0	B1/500		
BM (30°-60°)	341.9	8.8	B1/1000		
BH (60°-80°)	69.6	1.8	B0/110		G0/110
BVH (80°-90°)	3.4	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-G0**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	646.3	646.3	646.3	646.3	646.3	646.3	646.3	646.3	646.3	646.3	646.3
2.5°	744.4	727.2	727.9	726.5	724.4	716.4	692.8	689.3	673.5	669.2	654.9
5°	833.9	818.8	827.4	814.5	802.3	795.2	756.6	738.7	713.6	704.3	684.2
7.5°	889.7	882.5	879.7	880.4	868.9	851.0	833.9	794.5	760.9	753.7	711.5
10°	916.9	912.6	916.9	914.8	919.7	921.9	891.8	868.2	818.8	806.6	740.8
12.5°	923.3	931.9	935.4	944.8	957.0	977.7	975.6	943.3	877.5	869.6	785.9
15°	939.1	946.2	942.6	957.6	980.6	1015.7	1034.3	1029.2	958.4	944.0	838.1
17.5°	953.4	940.5	952.7	982.7	1005.6	1059.3	1104.4	1125.2	1046.4	1030.0	886.1
20°	972.7	969.1	967.0	982.0	1022.8	1094.4	1183.9	1221.8	1145.2	1128.0	954.8
22.5°	1031.4	1032.1	1030.6	1008.4	1037.8	1118.7	1253.3	1347.0	1263.3	1249.0	1032.8
25°	1108.7	1099.4	1092.2	1074.3	1070.8	1140.9	1323.4	1500.2	1405.0	1395.0	1117.3
27.5°	1190.3	1190.3	1168.8	1152.3	1129.5	1196.0	1387.8	1649.0	1576.0	1562.5	1191.0
30°	1279.0	1284.0	1281.2	1246.1	1231.8	1256.1	1453.7	1839.4	1772.2	1755.0	1312.6
32.5°	1410.0	1399.3	1411.5	1382.1	1339.9	1361.3	1557.4	2009.8	2027.0	2002.7	1472.3
35°	1583.2	1576.8	1568.9	1520.9	1470.8	1488.1	1704.2	2219.5	2346.9	2334.8	1633.3
37.5°	1738.5	1735.0	1728.5	1695.6	1637.6	1658.4	1871.0	2437.8	2659.0	2618.9	1861.0
40°	1901.8	1921.0	1900.3	1871.0	1818.0	1863.8	2067.1	2567.3	2921.6	2873.0	2034.9
42.5°	2122.9	2107.9	2117.1	2063.5	2034.9	2084.9	2263.9	2696.9	3125.7	3067.6	2219.5
45°	2358.3	2359.1	2334.0	2316.9	2242.4	2296.8	2384.8	2768.5	3288.1	3243.0	2359.1
47.5°	2509.4	2508.7	2535.9	2563.0	2486.5	2432.8	2467.2	2836.4	3371.8	3351.1	2409.9
50°	2485.7	2492.9	2528.0	2629.6	2669.8	2597.4	2544.4	2816.4	3409.8	3407.6	2453.5
52.5°	2162.3	2185.8	2244.5	2391.3	2593.1	2682.6	2625.3	2853.7	3428.4	3432.0	2518.7
55°	1646.2	1659.1	1770.7	1948.9	2172.3	2478.6	2593.1	2883.0	3442.7	3449.2	2597.4
56°	1427.9	1393.5	1554.6	1681.2	1948.3	2283.2	2511.6	2860.1	3434.1	3483.5	2636.8
57.5°	1077.9	1055.0	1185.3	1343.4	1600.4	1954.0	2258.2	2752.0	3376.1	3375.4	2580.3
60°	655.6	632.7	732.9	825.9	969.8	1203.1	1526.0	2191.6	2854.4	2914.5	2089.2
62.5°	390.1	404.4	503.2	559.7	606.2	630.6	789.4	1302.6	1904.6	1947.5	1296.2
65°	259.8	264.8	339.3	432.3	453.0	360.7	321.3	527.5	825.9	799.5	534.6
67.5°	160.3	171.8	227.6	325.0	360.0	263.4	152.5	196.8	227.6	227.6	154.6
70°	97.3	103.1	151.7	221.2	246.9	169.6	110.9	110.9	109.5	107.4	92.3
72.5°	46.5	50.1	77.3	113.8	116.0	89.5	85.9	93.8	91.6	90.9	76.6
75°	20.0	21.4	27.2	35.8	40.8	37.9	52.2	67.3	69.5	67.3	55.1
77.5°	6.5	7.1	10.0	12.9	13.6	16.5	22.2	27.9	32.2	30.0	27.2
80°	0.8	1.4	2.9	6.5	10.0	12.9	16.5	18.6	20.8	20.8	19.3
82.5°	0.8	0.8	2.9	5.7	9.3	12.2	15.7	17.9	20.8	21.4	20.0
85°	0.0	0.8	2.2	5.0	7.9	7.9	7.1	7.1	5.0	5.0	5.0
87.5°	0.0	0.0	0.8	0.8	0.8	1.4	1.4	1.4	1.4	1.4	1.4
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°	646.3	646.3	646.3	646.3	646.3	646.3	646.3	646.3	646.3	646.3	646.3
2.5°	652.0	650.6	631.3	619.1	612.7	599.8	591.9	586.2	581.9	576.9	577.6
5°	660.6	655.6	623.4	601.2	574.7	560.4	548.2	538.2	531.8	530.3	527.5
7.5°	685.0	658.5	609.8	569.7	536.1	521.8	511.1	504.6	507.5	501.0	506.0
10°	703.6	664.2	593.3	535.4	501.7	491.0	485.3	490.3	497.5	494.6	491.0
12.5°	726.5	669.9	566.8	502.4	471.0	463.1	473.1	482.4	496.7	502.4	495.3
15°	752.3	676.4	533.2	464.5	444.5	450.9	468.1	484.6	498.9	506.0	510.3
17.5°	783.7	674.2	500.3	434.5	419.4	438.0	458.8	473.8	495.3	506.0	503.2
20°	813.1	667.1	463.8	404.4	405.1	422.3	439.5	463.8	475.2	489.5	484.6
22.5°	841.0	654.2	425.9	383.7	383.7	410.2	418.7	434.5	444.5	451.6	450.9
25°	880.4	629.8	394.3	363.6	372.2	389.4	396.5	401.5	397.2	402.9	403.7
27.5°	908.3	604.8	368.6	345.7	361.5	374.3	372.2	369.3	359.3	351.5	356.4
30°	938.3	575.5	346.4	333.5	342.1	353.6	345.0	336.4	320.7	307.8	308.5
32.5°	981.3	561.9	327.1	319.2	330.7	332.1	322.8	309.9	294.2	282.0	281.3
35°	1061.4	553.3	310.7	309.9	312.1	312.8	303.4	287.7	281.3	271.3	274.8
37.5°	1141.6	549.0	299.1	296.3	295.6	296.3	285.6	270.5	282.7	282.0	283.4
40°	1243.9	568.3	282.7	279.1	279.9	279.9	266.3	262.0	283.4	285.6	286.3
42.5°	1347.7	592.7	272.0	260.5	263.4	263.4	256.3	251.2	266.3	252.0	249.8
45°	1437.9	628.4	260.5	242.0	249.1	252.6	250.5	242.0	232.6	208.3	208.3
47.5°	1467.3	659.9	246.9	224.0	229.8	245.5	239.1	221.2	204.7	184.7	183.3
50°	1518.8	694.2	236.2	203.3	215.5	234.7	228.3	210.4	191.8	177.5	178.2
52.5°	1571.7	733.6	216.1	179.0	193.9	226.1	226.1	206.1	177.5	167.4	166.0
55°	1651.2	732.2	180.4	146.8	173.2	213.3	216.9	184.7	158.9	151.0	151.0
56°	1662.7	699.3	162.5	137.4	163.9	209.7	210.4	179.0	151.7	143.1	143.1
57.5°	1576.8	631.3	142.5	126.0	152.5	203.3	204.0	173.9	146.0	133.8	132.4
60°	1213.1	427.3	118.8	112.4	138.2	183.3	186.8	158.2	128.1	118.8	118.1
62.5°	685.0	236.9	104.5	101.7	118.8	156.0	166.8	138.2	108.8	103.8	105.2
65°	312.8	130.3	88.1	82.3	95.9	120.3	134.6	113.8	89.5	83.8	83.8
67.5°	114.5	88.7	75.2	65.1	67.3	78.0	87.3	73.8	59.4	50.8	53.0
70°	81.6	74.4	65.9	56.5	52.2	50.8	50.1	41.5	29.4	22.9	24.3
72.5°	65.9	61.6	55.1	47.9	40.8	34.4	29.4	21.4	13.6	9.3	8.6
75°	47.3	45.1	40.1	34.4	28.6	24.3	20.0	13.6	7.1	3.6	3.6
77.5°	24.3	24.3	23.6	21.4	17.9	14.3	11.4	7.9	4.3	1.4	1.4
80°	18.6	20.0	20.8	18.6	16.5	12.9	9.3	5.7	2.9	0.8	0.8
82.5°	17.9	20.8	22.2	19.3	16.5	12.2	9.3	5.7	2.9	0.8	0.8
85°	4.3	4.3	6.5	7.1	9.3	10.0	7.9	5.0	2.2	0.8	0.8
87.5°	1.4	1.4	1.4	1.4	1.4	1.4	0.8	0.8	0.8	0.8	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)