

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: P651853

Luminaire Tested: **GALN-SA4A-840-U-T2-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P651853  
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-SA4A-840-U-T2-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 80 CRI, 4000K, 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: 8975.2 lumens  
Efficiency: N/A  
Efficacy: 74.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G1

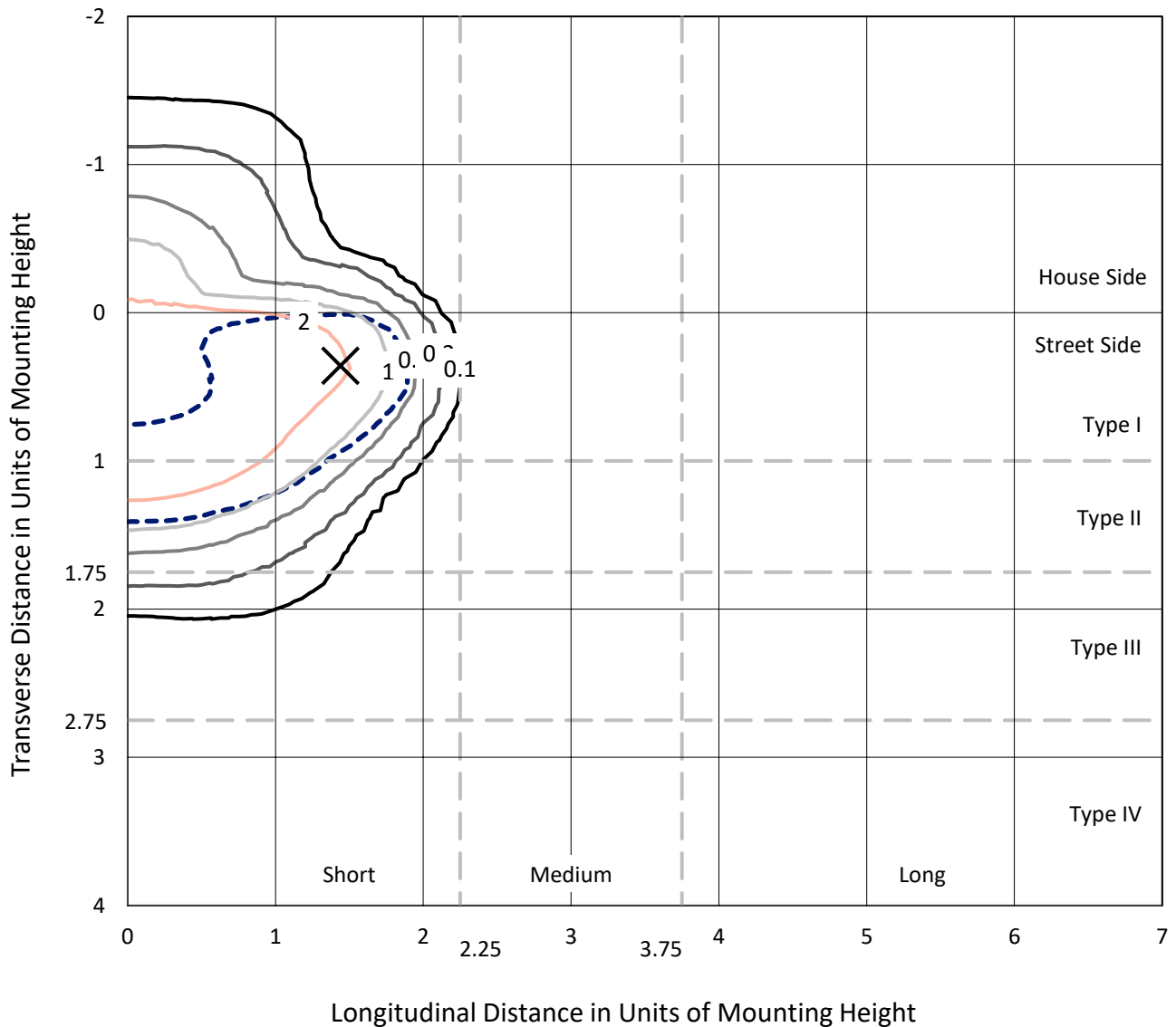
Input Watts (W): 121  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

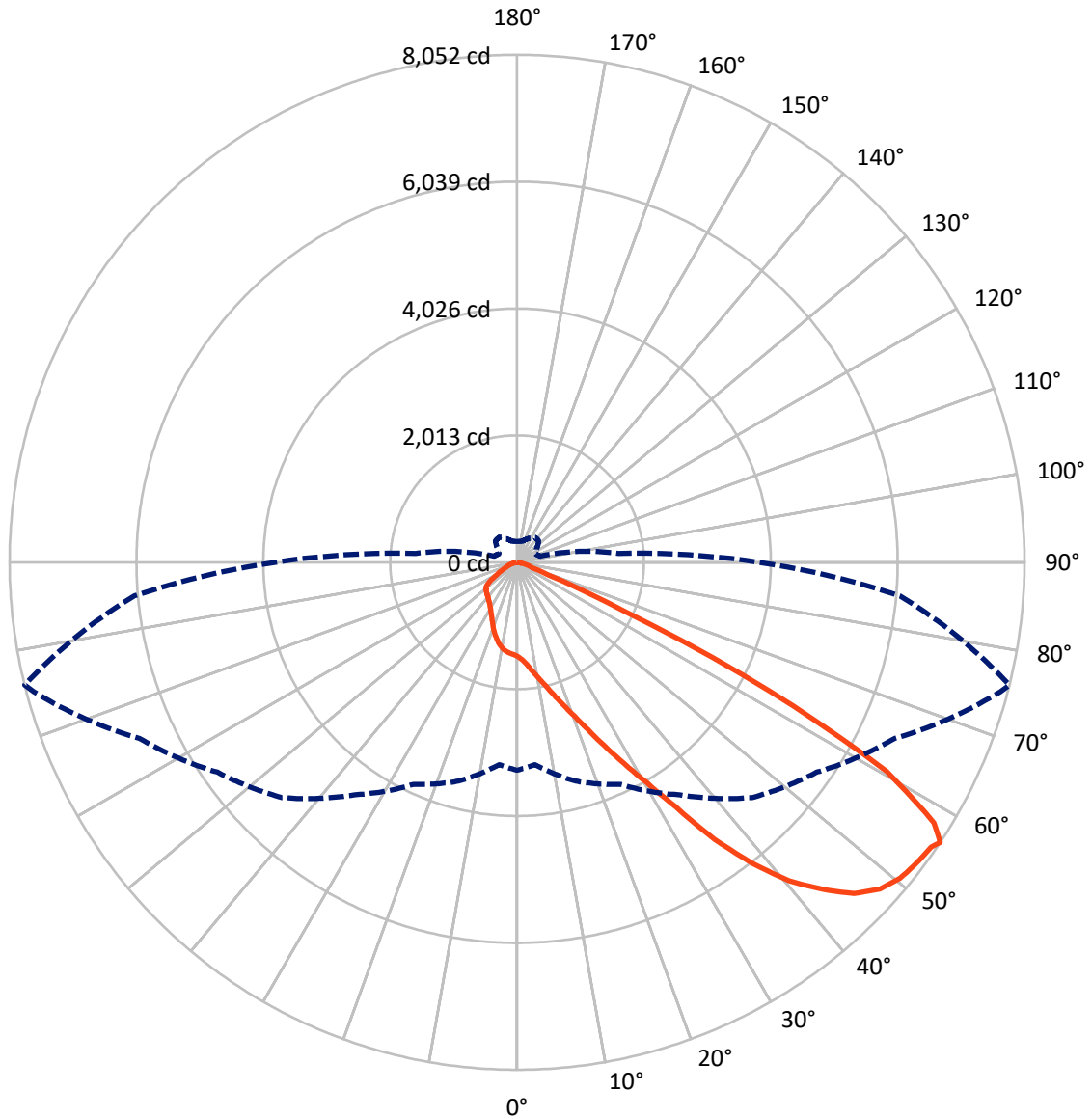
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.7 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	1410.0	0.0	1410.0
	% Fixture	15.7	0.0	15.7
<b>Street Side</b>	Lumens	7565.2	0.0	7565.2
	% Fixture	84.3	0.0	84.3
<b>Total</b>	Lumens	8975.2	0.0	8975.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	150.5	1.7
10°-20°	483.5	5.4
20°-30°	876.7	9.8
30°-40°	1511.9	16.8
40°-50°	2456.1	27.4
50°-60°	2588.8	28.8
60°-70°	791.0	8.8
70°-80°	101.4	1.1
80°-90°	15.4	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°	8975.2	100.0
0°-180°	8975.2	100.0

**Coefficient of Utilization**



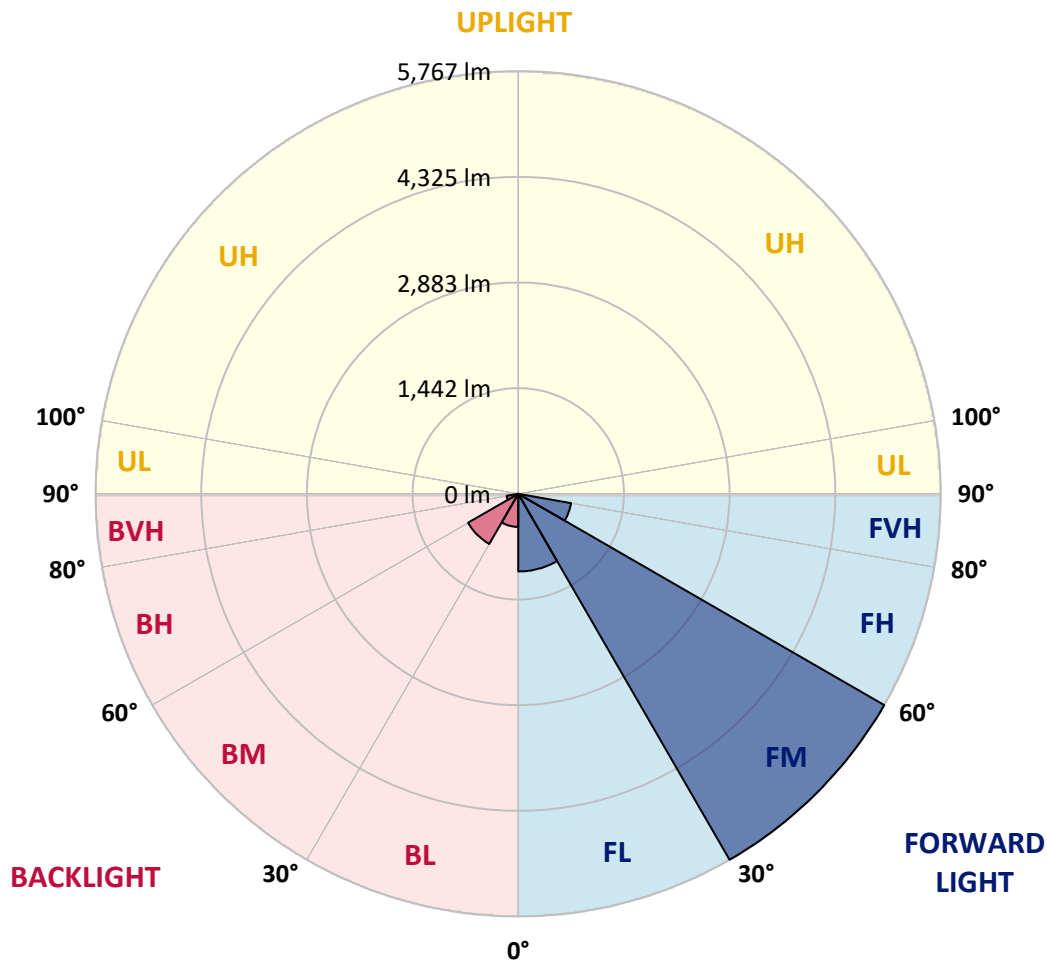
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1059.6	11.8			
FM (30°-60°)	5766.5	64.2			
FH (60°-80°)	731.5	8.2			G1/1800
FVH (80°-90°)	7.6	0.1			G0/10
BL (0°-30°)	451.0	5.0	B1/500		
BM (30°-60°)	790.2	8.8	B1/1000		
BH (60°-80°)	160.9	1.8	B1/500		G1/500
BVH (80°-90°)	7.9	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: 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°	1494.0	1494.0	1494.0	1494.0	1494.0	1494.0	1494.0	1494.0	1494.0	1494.0	1494.0
2.5°	1720.6	1680.9	1682.5	1679.2	1674.3	1656.1	1601.4	1593.2	1556.8	1546.9	1513.8
5°	1927.4	1892.7	1912.5	1882.7	1854.6	1838.0	1748.7	1707.3	1649.5	1627.9	1581.6
7.5°	2056.4	2039.8	2033.3	2034.9	2008.5	1967.1	1927.4	1836.4	1758.6	1742.0	1644.5
10°	2119.3	2109.4	2119.3	2114.4	2125.9	2130.8	2061.4	2006.8	1892.7	1864.5	1712.3
12.5°	2134.2	2154.1	2162.3	2183.8	2211.9	2259.9	2255.0	2180.5	2028.3	2010.1	1816.6
15°	2170.6	2187.1	2178.9	2213.6	2266.5	2347.6	2390.6	2379.0	2215.3	2182.1	1937.3
17.5°	2203.7	2173.9	2202.0	2271.5	2324.4	2448.5	2552.8	2600.7	2418.7	2380.7	2048.2
20°	2248.3	2240.1	2235.1	2269.9	2364.1	2529.6	2736.4	2824.1	2647.0	2607.4	2207.0
22.5°	2384.0	2385.7	2382.4	2331.1	2398.9	2585.8	2896.8	3113.6	2920.0	2886.9	2387.3
25°	2562.7	2541.2	2524.6	2483.2	2475.0	2637.1	3059.0	3467.6	3247.6	3224.4	2582.5
27.5°	2751.2	2751.2	2701.6	2663.6	2610.6	2764.5	3207.9	3811.7	3643.0	3611.6	2752.9
30°	2956.5	2968.0	2961.4	2880.3	2847.2	2903.5	3360.1	4251.8	4096.3	4056.6	3034.2
32.5°	3259.2	3234.4	3262.5	3194.6	3097.1	3146.7	3600.0	4645.6	4685.3	4629.0	3403.1
35°	3659.5	3644.6	3626.5	3515.6	3399.8	3439.5	3939.2	5130.3	5424.8	5396.7	3775.3
37.5°	4018.6	4010.3	3995.4	3919.3	3785.3	3833.3	4324.6	5634.9	6146.1	6053.4	4301.5
40°	4395.7	4440.4	4392.5	4324.6	4202.2	4308.1	4777.9	5934.3	6753.3	6640.8	4703.5
42.5°	4907.0	4872.2	4893.7	4769.6	4703.5	4819.3	5232.9	6233.8	7224.8	7090.8	5130.3
45°	5451.3	5453.0	5395.0	5355.3	5183.3	5309.0	5512.5	6399.3	7600.4	7496.1	5453.0
47.5°	5800.4	5798.7	5861.5	5924.4	5747.4	5623.3	5702.7	6556.4	7793.9	7745.9	5570.4
50°	5745.7	5762.3	5843.4	6078.2	6170.9	6003.8	5881.4	6510.1	7881.6	7876.6	5671.3
52.5°	4998.0	5052.6	5188.2	5527.4	5993.9	6200.7	6068.3	6596.1	7924.6	7932.9	5821.8
55°	3805.1	3834.9	4093.0	4505.0	5021.1	5729.2	5993.9	6663.9	7957.7	7972.6	6003.8
56°	3300.5	3221.1	3593.3	3886.2	4503.3	5277.5	5805.3	6611.0	7937.9	8052.0	6094.8
57.5°	2491.5	2438.6	2739.7	3105.3	3699.2	4516.5	5219.7	6361.2	7803.8	7802.2	5964.1
60°	1515.4	1462.5	1694.1	1909.2	2241.7	2781.0	3527.2	5065.8	6597.7	6736.7	4829.2
62.5°	901.6	934.8	1163.0	1293.7	1401.3	1457.5	1824.8	3011.0	4402.4	4501.6	2996.1
65°	600.6	612.2	784.1	999.3	1047.2	833.9	742.9	1219.3	1909.2	1847.9	1235.8
67.5°	370.6	397.0	526.1	751.1	832.2	608.8	352.4	455.0	526.1	526.1	357.3
70°	225.0	238.3	350.7	511.2	570.8	392.1	256.4	256.4	253.1	248.2	213.4
72.5°	107.6	115.8	178.7	263.1	268.0	206.8	198.6	216.7	211.8	210.1	177.0
75°	46.3	49.6	62.9	82.8	94.3	87.7	120.8	155.5	160.5	155.5	127.4
77.5°	14.9	16.6	23.1	29.8	31.5	38.0	51.3	64.5	74.4	69.5	62.9
80°	1.7	3.3	6.6	14.9	23.1	29.8	38.0	43.0	47.9	47.9	44.7
82.5°	1.7	1.7	6.6	13.2	21.5	28.1	36.4	41.4	47.9	49.6	46.3
85°	0.0	1.7	5.0	11.6	18.2	18.2	16.6	16.6	11.6	11.6	11.6
87.5°	0.0	0.0	1.7	1.7	1.7	3.3	3.3	3.3	3.3	3.3	3.3
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°	1494.0	1494.0	1494.0	1494.0	1494.0	1494.0	1494.0	1494.0	1494.0	1494.0	1494.0
2.5°	1507.2	1503.9	1459.2	1431.0	1416.2	1386.4	1368.2	1354.9	1345.0	1333.5	1335.1
5°	1527.0	1515.4	1441.0	1389.7	1328.5	1295.4	1267.3	1244.1	1229.2	1225.9	1219.3
7.5°	1583.3	1522.0	1409.5	1316.9	1239.1	1206.1	1181.3	1166.4	1172.9	1158.1	1169.7
10°	1626.2	1535.3	1371.5	1237.5	1159.7	1134.9	1121.7	1133.2	1149.8	1143.2	1134.9
12.5°	1679.2	1548.5	1310.3	1161.4	1088.6	1070.4	1093.6	1115.1	1148.1	1161.4	1144.9
15°	1738.8	1563.4	1232.6	1073.7	1027.4	1042.3	1081.9	1120.0	1153.1	1169.7	1179.6
17.5°	1811.6	1558.5	1156.5	1004.2	969.5	1012.5	1060.5	1095.2	1144.9	1169.7	1163.0
20°	1879.4	1541.9	1072.0	934.8	936.4	976.1	1015.8	1072.0	1098.5	1131.6	1120.0
22.5°	1943.9	1512.1	984.4	886.8	886.8	948.0	967.8	1004.2	1027.4	1043.9	1042.3
25°	2034.9	1455.9	911.6	840.4	860.3	900.0	916.5	928.1	918.2	931.4	933.1
27.5°	2099.5	1398.0	852.0	799.1	835.4	865.2	860.3	853.7	830.5	812.3	823.9
30°	2168.9	1330.1	800.7	770.9	790.8	817.3	797.4	777.6	741.2	711.4	713.1
32.5°	2268.2	1298.7	756.1	737.9	764.3	767.7	746.1	716.4	679.9	651.9	650.2
35°	2453.4	1278.8	718.0	716.4	721.3	723.0	701.5	665.1	650.2	627.0	635.3
37.5°	2638.8	1268.9	691.6	684.9	683.2	684.9	660.1	625.4	653.5	651.9	655.1
40°	2875.4	1313.6	653.5	645.2	646.9	646.9	615.4	605.5	655.1	660.1	661.8
42.5°	3115.2	1369.8	628.6	602.2	608.8	608.8	592.3	580.7	615.4	582.4	577.3
45°	3323.7	1452.6	602.2	559.2	575.7	584.0	579.0	559.2	537.7	481.5	481.5
47.5°	3391.5	1525.3	570.8	517.8	531.1	567.4	552.5	511.2	473.1	426.8	423.5
50°	3510.7	1604.8	546.0	469.9	498.0	542.6	527.7	486.4	443.4	410.3	411.9
52.5°	3633.0	1695.8	499.6	413.6	448.3	522.8	522.8	476.5	410.3	387.1	383.8
55°	3816.7	1692.4	416.9	339.2	400.4	493.0	501.3	426.8	367.3	349.1	349.1
56°	3843.2	1616.3	375.6	317.6	378.9	484.8	486.4	413.6	350.7	330.8	330.8
57.5°	3644.6	1459.2	329.3	291.2	352.4	469.9	471.5	402.0	337.5	309.4	306.0
60°	2804.2	987.7	274.7	259.7	319.3	423.5	431.8	365.6	296.1	274.7	273.0
62.5°	1583.3	547.6	241.5	234.9	274.7	360.6	385.5	319.3	251.5	239.9	243.2
65°	723.0	301.1	203.5	190.2	221.7	278.0	311.0	263.1	206.8	193.6	193.6
67.5°	264.7	205.1	173.8	150.5	155.5	180.3	201.8	170.4	137.3	117.5	122.4
70°	188.6	172.1	152.2	130.7	120.8	117.5	115.8	96.0	67.9	53.0	56.3
72.5°	152.2	142.3	127.4	110.8	94.3	79.4	67.9	49.6	31.5	21.5	19.8
75°	109.2	104.2	92.7	79.4	66.2	56.3	46.3	31.5	16.6	8.2	8.2
77.5°	56.3	56.3	54.6	49.6	41.4	33.1	26.5	18.2	9.9	3.3	3.3
80°	43.0	46.3	47.9	43.0	38.0	29.8	21.5	13.2	6.6	1.7	1.7
82.5°	41.4	47.9	51.3	44.7	38.0	28.1	21.5	13.2	6.6	1.7	1.7
85°	9.9	9.9	14.9	16.6	21.5	23.1	18.2	11.6	5.0	1.7	1.7
87.5°	3.3	3.3	3.3	3.3	3.3	3.3	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)