

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: P528317

Luminaire Tested: **GALN-SA3B-827-U-T2-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P528317  
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-SA3B-827-U-T2-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 80 CRI, 2700K, 800mA 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: 7366 lumens  
Efficiency: N/A  
Efficacy: 60.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G1

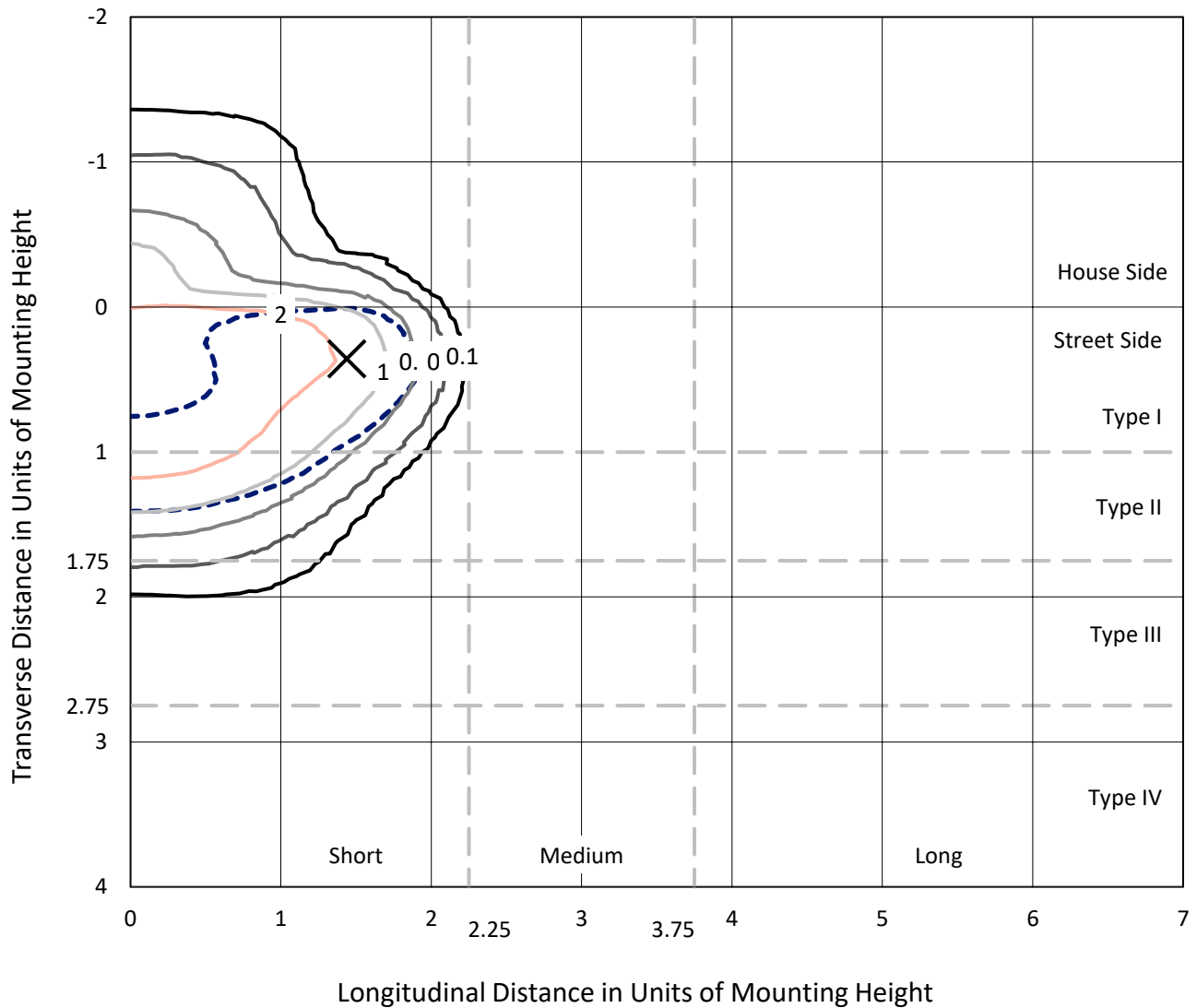
Input Watts (W): 121  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

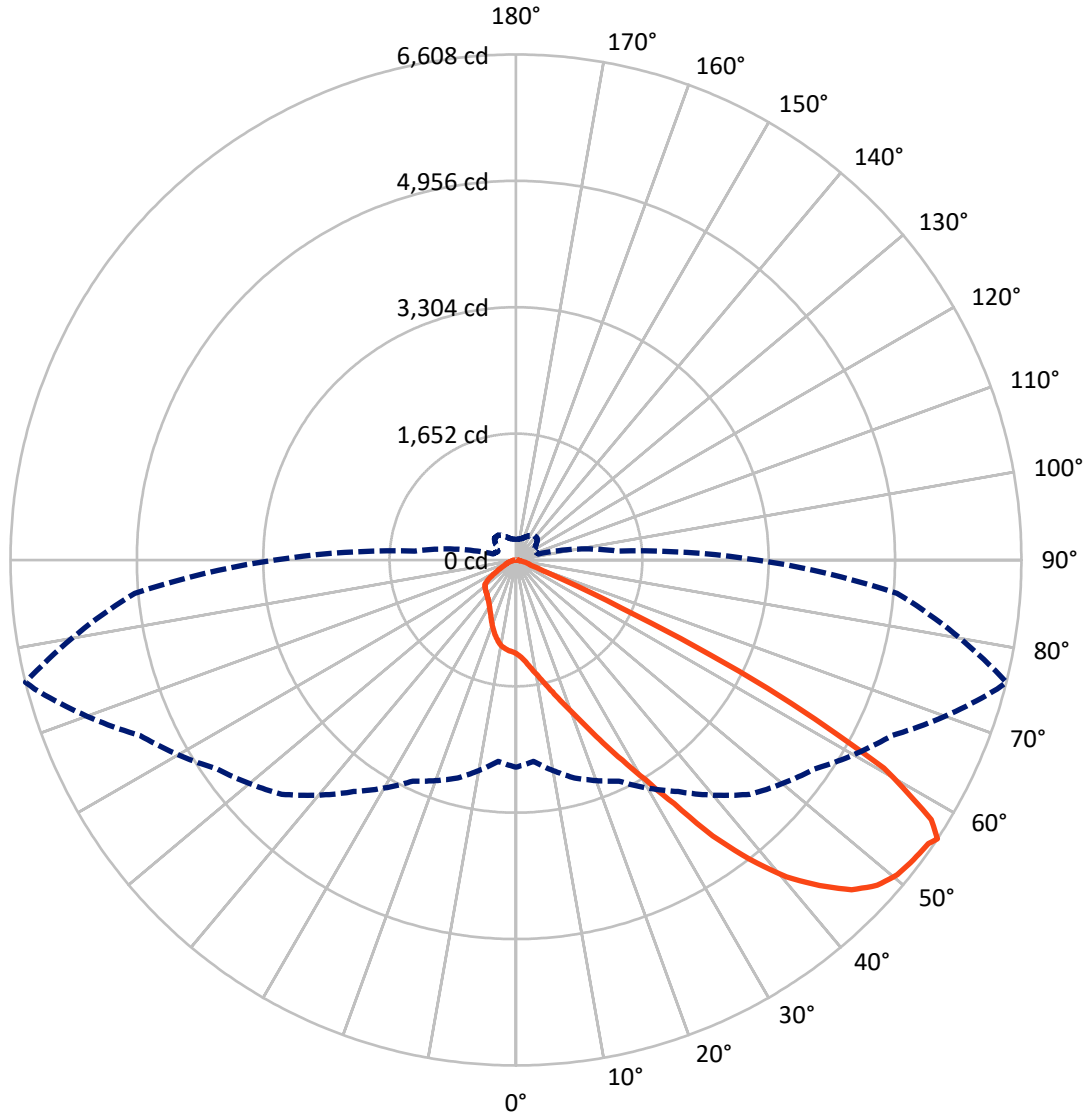
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.9 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	1157.2	0.0	1157.2
	% Fixture	15.7	0.0	15.7
<b>Street Side</b>	Lumens	6208.8	0.0	6208.8
	% Fixture	84.3	0.0	84.3
<b>Total</b>	Lumens	7366.0	0.0	7366.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	123.5	1.7
10°-20°	396.8	5.4
20°-30°	719.5	9.8
30°-40°	1240.8	16.8
40°-50°	2015.7	27.4
50°-60°	2124.6	28.8
60°-70°	649.2	8.8
70°-80°	83.2	1.1
80°-90°	12.7	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°	7366.0	100.0
0°-180°	7366.0	100.0

**Coefficient of Utilization**

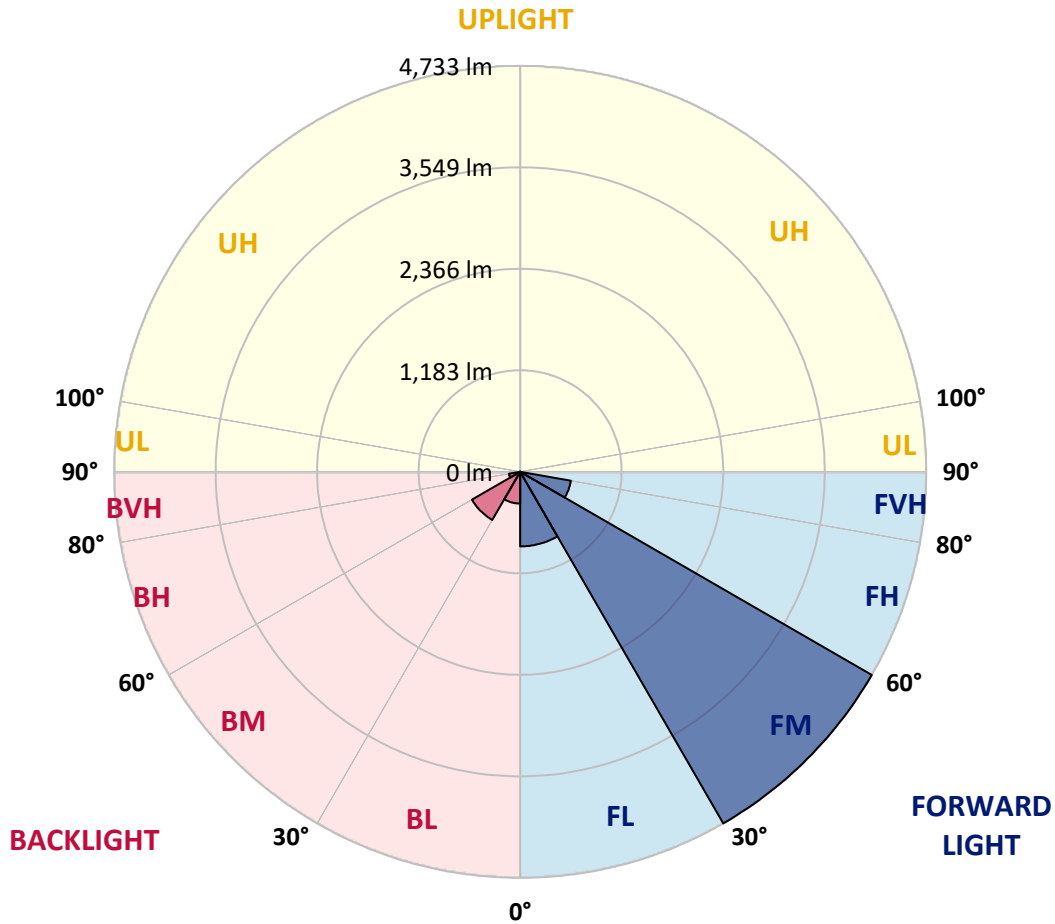


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	869.6	11.8			
FM (30°-60°)	4732.7	64.2			
FH (60°-80°)	600.4	8.2			G0/660
FVH (80°-90°)	6.2	0.1			G0/10
BL (0°-30°)	370.2	5.0	B1/500		
BM (30°-60°)	648.5	8.8	B1/1000		
BH (60°-80°)	132.0	1.8	B1/500		G1/500
BVH (80°-90°)	6.5	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°	1226.1	1226.1	1226.1	1226.1	1226.1	1226.1	1226.1	1226.1	1226.1	1226.1	1226.1
2.5°	1412.1	1379.5	1380.9	1378.2	1374.1	1359.1	1314.3	1307.5	1277.7	1269.5	1242.4
5°	1581.8	1553.3	1569.6	1545.2	1522.1	1508.5	1435.2	1401.2	1353.7	1336.1	1298.0
7.5°	1687.7	1674.2	1668.7	1670.1	1648.4	1614.4	1581.8	1507.1	1443.3	1429.7	1349.6
10°	1739.3	1731.2	1739.3	1735.3	1744.8	1748.8	1691.8	1647.0	1553.3	1530.2	1405.3
12.5°	1751.5	1767.8	1774.6	1792.3	1815.4	1854.7	1850.7	1789.6	1664.6	1649.7	1490.9
15°	1781.4	1795.0	1788.2	1816.7	1860.2	1926.7	1962.0	1952.5	1818.1	1790.9	1590.0
17.5°	1808.6	1784.1	1807.2	1864.2	1907.7	2009.5	2095.1	2134.4	1985.1	1953.9	1680.9
20°	1845.2	1838.4	1834.4	1862.9	1940.3	2076.1	2245.8	2317.7	2172.5	2139.9	1811.3
22.5°	1956.6	1957.9	1955.2	1913.1	1968.8	2122.2	2377.5	2555.4	2396.5	2369.3	1959.3
25°	2103.2	2085.6	2072.0	2038.0	2031.2	2164.3	2510.5	2845.9	2665.3	2646.3	2119.5
27.5°	2258.0	2258.0	2217.3	2186.0	2142.6	2268.9	2632.7	3128.3	2989.8	2964.0	2259.4
30°	2426.4	2435.9	2430.4	2363.9	2336.8	2382.9	2757.7	3489.5	3361.9	3329.3	2490.2
32.5°	2674.8	2654.5	2677.6	2621.9	2541.8	2582.5	2954.5	3812.7	3845.3	3799.1	2793.0
35°	3003.4	2991.2	2976.3	2885.3	2790.3	2822.8	3232.9	4210.5	4452.2	4429.1	3098.5
37.5°	3298.1	3291.3	3279.1	3216.6	3106.6	3146.0	3549.3	4624.6	5044.2	4968.1	3530.2
40°	3607.6	3644.3	3604.9	3549.3	3448.8	3535.7	3921.3	4870.4	5542.5	5450.2	3860.2
42.5°	4027.2	3998.7	4016.3	3914.5	3860.2	3955.2	4294.7	5116.1	5929.5	5819.5	4210.5
45°	4473.9	4475.3	4427.7	4395.2	4253.9	4357.1	4524.1	5251.9	6237.7	6152.1	4475.3
47.5°	4760.4	4759.0	4810.6	4862.2	4717.0	4615.1	4680.3	5380.9	6396.5	6357.2	4571.7
50°	4715.6	4729.2	4795.7	4988.5	5064.5	4927.4	4826.9	5342.9	6468.5	6464.4	4654.5
52.5°	4101.9	4146.7	4258.0	4536.4	4919.3	5089.0	4980.4	5413.5	6503.8	6510.6	4778.1
55°	3122.9	3147.4	3359.2	3697.3	4120.9	4702.0	4919.3	5469.2	6531.0	6543.2	4927.4
56°	2708.8	2643.6	2949.1	3189.4	3695.9	4331.3	4764.5	5425.7	6514.7	6608.3	5002.1
57.5°	2044.8	2001.4	2248.5	2548.6	3036.0	3706.8	4283.8	5220.7	6404.7	6403.3	4894.8
60°	1243.7	1200.3	1390.4	1566.9	1839.8	2282.4	2894.8	4157.5	5414.9	5528.9	3963.4
62.5°	740.0	767.1	954.5	1061.8	1150.0	1196.2	1497.6	2471.2	3613.1	3694.5	2459.0
65°	492.9	502.4	643.6	820.1	859.5	684.3	609.6	1000.7	1566.9	1516.6	1014.3
67.5°	304.1	325.9	431.8	616.4	683.0	499.7	289.2	373.4	431.8	431.8	293.3
70°	184.7	195.5	287.9	419.6	468.4	321.8	210.5	210.5	207.7	203.7	175.2
72.5°	88.3	95.0	146.6	215.9	220.0	169.7	162.9	177.9	173.8	172.4	145.3
75°	38.0	40.7	51.6	67.9	77.4	72.0	99.1	127.6	131.7	127.6	104.5
77.5°	12.2	13.6	19.0	24.4	25.8	31.2	42.1	53.0	61.1	57.0	51.6
80°	1.4	2.7	5.4	12.2	19.0	24.4	31.2	35.3	39.4	39.4	36.7
82.5°	1.4	1.4	5.4	10.9	17.7	23.1	29.9	33.9	39.4	40.7	38.0
85°	0.0	1.4	4.1	9.5	14.9	14.9	13.6	13.6	9.5	9.5	9.5
87.5°	0.0	0.0	1.4	1.4	1.4	2.7	2.7	2.7	2.7	2.7	2.7
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°	1226.1	1226.1	1226.1	1226.1	1226.1	1226.1	1226.1	1226.1	1226.1	1226.1	1226.1
2.5°	1236.9	1234.2	1197.6	1174.5	1162.3	1137.8	1122.9	1112.0	1103.9	1094.4	1095.7
5°	1253.2	1243.7	1182.6	1140.5	1090.3	1063.1	1040.1	1021.1	1008.8	1006.1	1000.7
7.5°	1299.4	1249.2	1156.8	1080.8	1017.0	989.8	969.5	957.2	962.7	950.5	960.0
10°	1334.7	1260.0	1125.6	1015.6	951.8	931.4	920.6	930.1	943.7	938.2	931.4
12.5°	1378.2	1270.9	1075.4	953.2	893.4	878.5	897.5	915.1	942.3	953.2	939.6
15°	1427.0	1283.1	1011.6	881.2	843.2	855.4	888.0	919.2	946.4	960.0	968.1
17.5°	1486.8	1279.0	949.1	824.2	795.7	831.0	870.3	898.9	939.6	960.0	954.5
20°	1542.4	1265.5	879.8	767.1	768.5	801.1	833.7	879.8	901.6	928.7	919.2
22.5°	1595.4	1241.0	807.9	727.8	727.8	778.0	794.3	824.2	843.2	856.8	855.4
25°	1670.1	1194.9	748.1	689.8	706.0	738.6	752.2	761.7	753.6	764.4	765.8
27.5°	1723.0	1147.3	699.3	655.8	685.7	710.1	706.0	700.6	681.6	666.7	676.2
30°	1780.1	1091.7	657.2	632.7	649.0	670.7	654.5	638.2	608.3	583.8	585.2
32.5°	1861.5	1065.9	620.5	605.6	627.3	630.0	612.4	587.9	558.1	535.0	533.6
35°	2013.6	1049.6	589.3	587.9	592.0	593.4	575.7	545.8	533.6	514.6	521.4
37.5°	2165.7	1041.4	567.6	562.1	560.8	562.1	541.8	513.2	536.3	535.0	537.7
40°	2359.8	1078.1	536.3	529.5	530.9	530.9	505.1	497.0	537.7	541.8	543.1
42.5°	2556.7	1124.2	516.0	494.2	499.7	499.7	486.1	476.6	505.1	477.9	473.9
45°	2727.8	1192.1	494.2	458.9	472.5	479.3	475.2	458.9	441.3	395.1	395.1
47.5°	2783.5	1251.9	468.4	425.0	435.8	465.7	453.5	419.6	388.3	350.3	347.6
50°	2881.2	1317.1	448.1	385.6	408.7	445.4	433.1	399.2	363.9	336.7	338.1
52.5°	2981.7	1391.7	410.1	339.4	368.0	429.1	429.1	391.0	336.7	317.7	315.0
55°	3132.4	1389.0	342.2	278.3	328.6	404.6	411.4	350.3	301.4	286.5	286.5
56°	3154.1	1326.6	308.2	260.7	310.9	397.8	399.2	339.4	287.9	271.6	271.6
57.5°	2991.2	1197.6	270.2	239.0	289.2	385.6	387.0	329.9	277.0	253.9	251.2
60°	2301.4	810.6	225.4	213.2	262.1	347.6	354.4	300.1	243.0	225.4	224.0
62.5°	1299.4	449.4	198.2	192.8	225.4	296.0	316.4	262.1	206.4	196.9	199.6
65°	593.4	247.1	167.0	156.1	181.9	228.1	255.3	215.9	169.7	158.9	158.9
67.5°	217.2	168.4	142.6	123.6	127.6	148.0	165.7	139.9	112.7	96.4	100.5
70°	154.8	141.2	124.9	107.3	99.1	96.4	95.0	78.8	55.7	43.4	46.2
72.5°	124.9	116.8	104.5	91.0	77.4	65.2	55.7	40.7	25.8	17.7	16.3
75°	89.6	85.5	76.0	65.2	54.3	46.2	38.0	25.8	13.6	6.8	6.8
77.5°	46.2	46.2	44.8	40.7	33.9	27.2	21.7	14.9	8.1	2.7	2.7
80°	35.3	38.0	39.4	35.3	31.2	24.4	17.7	10.9	5.4	1.4	1.4
82.5°	33.9	39.4	42.1	36.7	31.2	23.1	17.7	10.9	5.4	1.4	1.4
85°	8.1	8.1	12.2	13.6	17.7	19.0	14.9	9.5	4.1	1.4	1.4
87.5°	2.7	2.7	2.7	2.7	2.7	2.7	1.4	1.4	1.4	1.4	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)