

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: P527369

Luminaire Tested: **GALN-SA2B-827-U-AFL-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P527369  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-27)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA2B-827-U-AFL-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 80 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6275 lumens  
Efficiency: N/A  
Efficacy: 76.5 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G0

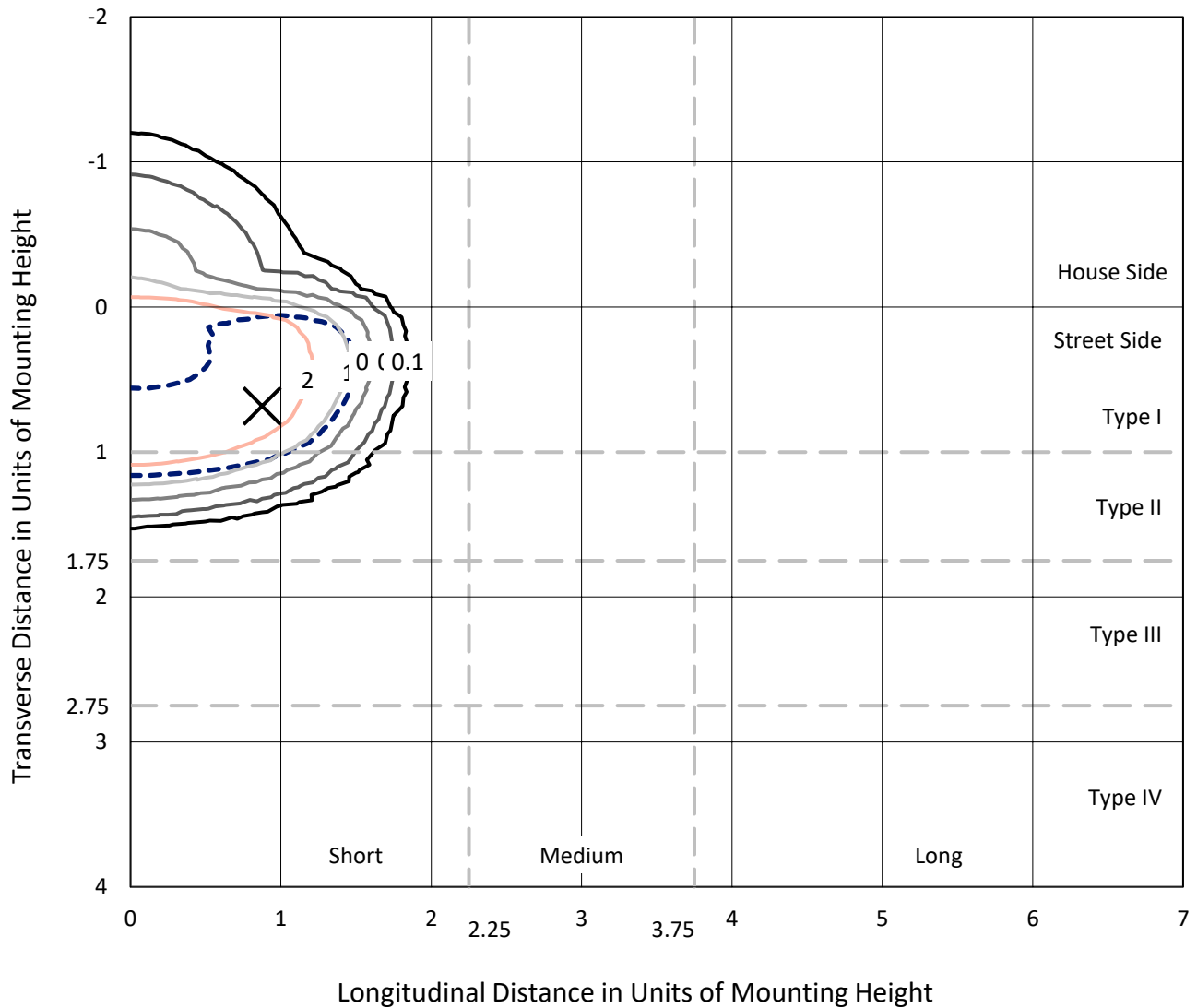
Input Watts (W): 82  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

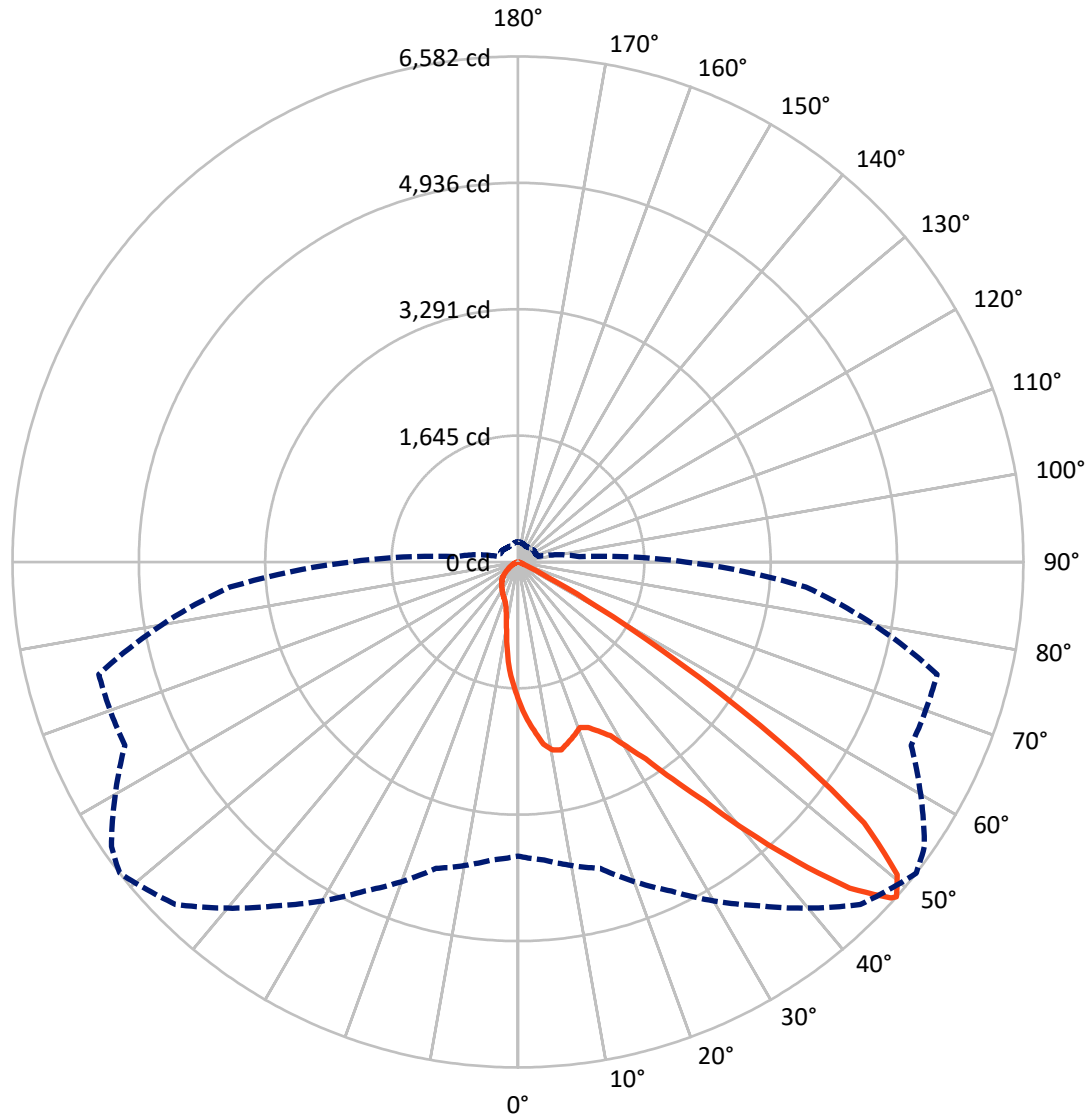
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.1 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 52-Deg Lateral      - - - Horizontal Cone Through 48-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	764.0	0.0	764.0
	% Fixture	12.2	0.0	12.2
<b>Street Side</b>	Lumens	5511.0	0.0	5511.0
	% Fixture	87.8	0.0	87.8
<b>Total</b>	Lumens	6275.0	0.0	6275.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	165.9	2.6
10°-20°	433.5	6.9
20°-30°	740.1	11.8
30°-40°	1362.9	21.7
40°-50°	2116.5	33.7
50°-60°	1273.8	20.3
60°-70°	147.3	2.3
70°-80°	28.5	0.5
80°-90°	6.6	0.1
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°	6275.0	100.0
0°-180°	6275.0	100.0

**Coefficient of Utilization**



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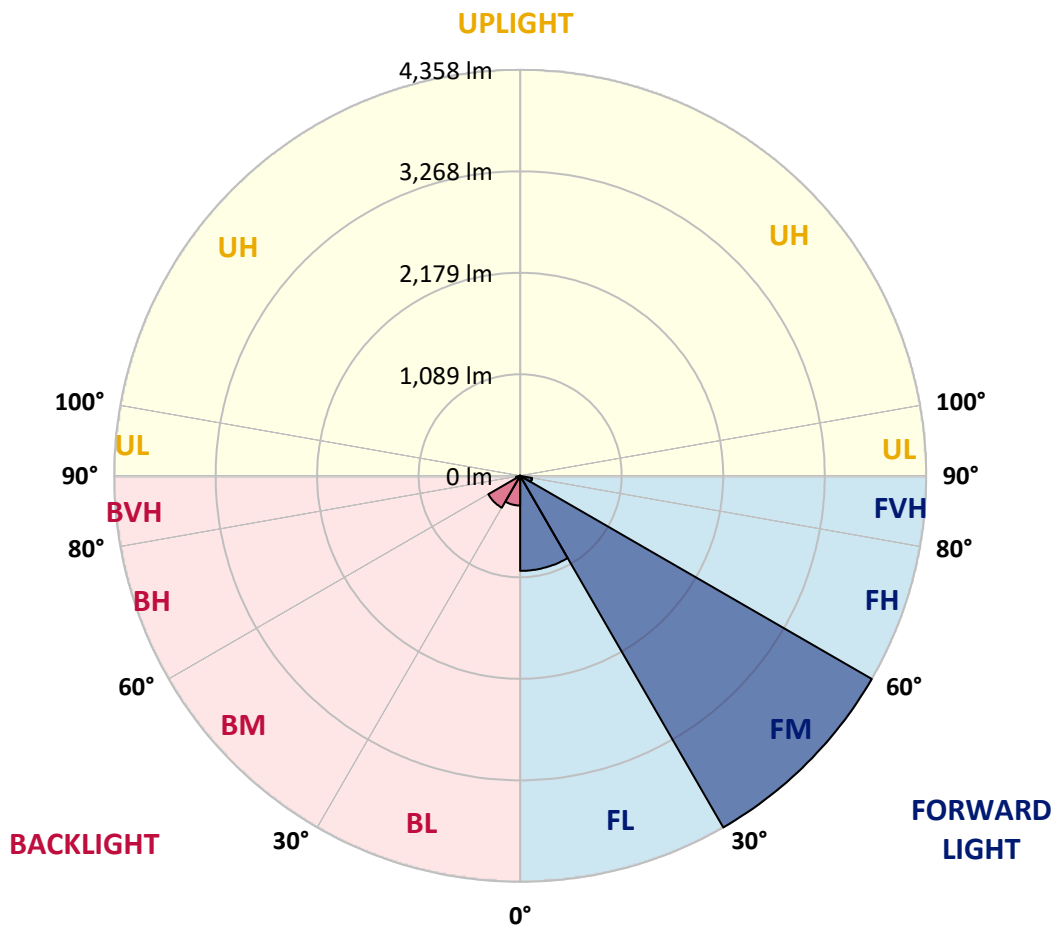
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1020.2	16.3			
FM (30°-60°)	4357.9	69.4			
FH (60°-80°)	129.7	2.1			G0/660
FVH (80°-90°)	3.1	0.0			G0/10
BL (0°-30°)	319.2	5.1	B1/500		
BM (30°-60°)	395.3	6.3	B1/1000		
BH (60°-80°)	46.1	0.7	B0/110		G0/110
BVH (80°-90°)	3.5	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-G0**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	52°	55°	65°	75°	85°
0°	1812.1	1812.1	1812.1	1812.1	1812.1	1812.1	1812.1	1812.1	1812.1	1812.1	1812.1
2.5°	2196.3	2146.0	2150.6	2117.6	2098.4	2067.3	2025.3	2017.0	1971.3	1909.1	1846.0
5°	2393.9	2382.0	2397.6	2350.0	2351.8	2300.6	2201.8	2203.6	2098.4	1996.9	1899.0
7.5°	2406.7	2379.3	2394.8	2436.9	2461.6	2452.4	2396.6	2348.2	2248.5	2099.3	1956.6
10°	2155.1	2207.3	2223.8	2293.3	2392.1	2496.3	2489.9	2492.7	2409.4	2214.6	2006.0
12.5°	2004.2	1969.5	2025.3	2067.3	2216.4	2418.6	2511.0	2531.1	2537.5	2326.2	2055.4
15°	1935.6	1935.6	1944.8	1956.6	2064.6	2251.2	2439.6	2498.2	2636.3	2472.6	2133.2
17.5°	1978.6	1976.8	1989.6	1964.9	2005.1	2148.7	2373.8	2440.5	2747.0	2616.2	2194.5
20°	2109.4	2115.8	2107.6	2036.2	2039.0	2146.9	2300.6	2405.8	2822.0	2740.6	2275.9
22.5°	2291.4	2295.1	2248.5	2170.7	2147.8	2200.9	2342.7	2423.2	2882.4	2889.7	2300.6
25°	2501.8	2487.2	2478.1	2368.3	2298.8	2344.5	2437.8	2484.5	2919.9	3017.8	2371.0
27.5°	2793.6	2764.4	2708.6	2610.7	2559.5	2494.5	2561.3	2638.1	3026.9	3197.0	2447.9
30°	3224.5	3198.9	3090.0	2963.8	2829.3	2765.3	2786.3	2828.4	3219.9	3404.7	2549.4
32.5°	3873.0	3819.1	3661.7	3421.2	3238.2	3061.7	3056.2	3101.0	3392.8	3691.9	2670.1
35°	4587.5	4571.0	4339.6	4091.7	3737.7	3465.1	3469.6	3493.4	3723.9	4068.8	2828.4
37.5°	5062.2	5152.8	5005.5	4739.3	4442.0	4052.3	3953.5	3961.8	4178.6	4515.2	3113.8
40°	5429.0	5352.2	5369.6	5307.4	5104.3	4839.0	4620.4	4577.4	4704.5	5009.2	3397.4
42.5°	5268.9	5272.6	5379.6	5526.9	5577.2	5558.0	5334.8	5253.4	5154.6	5413.5	3667.2
45°	4817.1	4911.3	5050.3	5440.0	5782.1	6103.2	6059.3	5923.9	5465.6	5733.6	3822.7
47.5°	4096.2	4092.6	4320.4	4827.1	5587.3	6339.2	6538.6	6443.5	5686.1	5698.0	3790.7
48°	3830.0	3895.9	4131.0	4727.4	5463.8	6304.4	6581.6	6461.8	5648.6	5650.4	3763.3
50°	2831.1	2819.3	3112.0	3843.8	4880.2	5923.9	6400.5	6493.8	5647.7	5409.8	3571.2
52.5°	1495.6	1546.8	1760.0	2416.8	3450.4	4848.2	5645.8	5791.3	5448.2	5016.5	3294.9
55°	635.7	574.5	738.2	1091.3	1941.1	3239.1	4142.0	4465.8	4606.7	4439.3	2882.4
57.5°	226.9	247.9	285.4	410.7	816.0	1772.8	2469.8	2721.4	3191.6	3257.4	1964.0
60°	145.4	148.2	160.1	188.4	306.4	683.3	1171.8	1372.1	1585.3	1636.5	916.6
62.5°	112.5	113.4	118.9	123.5	145.4	265.3	440.0	521.4	541.5	465.6	240.6
65°	94.2	95.1	97.0	97.0	103.4	124.4	153.7	169.2	164.7	162.8	136.3
67.5°	72.3	74.1	77.8	77.8	81.4	75.9	85.1	90.6	102.5	124.4	116.2
70°	56.7	57.6	60.4	62.2	62.2	54.9	61.3	66.8	75.0	92.4	91.5
72.5°	43.9	45.7	47.6	47.6	44.8	37.5	43.9	48.5	54.0	64.0	62.2
75°	33.8	33.8	34.8	28.4	22.0	19.2	26.5	32.0	40.2	42.1	34.8
77.5°	9.1	10.1	9.1	8.2	9.1	13.7	17.4	20.1	25.6	25.6	22.9
80°	0.0	0.9	2.7	5.5	9.1	12.8	15.6	17.4	20.1	22.0	21.0
82.5°	0.0	0.9	2.7	5.5	8.2	10.1	13.7	14.6	16.5	19.2	19.2
85°	0.0	0.9	1.8	3.7	5.5	6.4	6.4	5.5	5.5	4.6	3.7
87.5°	0.0	0.0	0.9	1.8	1.8	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°	1812.1	1812.1	1812.1	1812.1	1812.1	1812.1	1812.1	1812.1	1812.1	1812.1	1812.1
2.5°	1821.3	1792.9	1749.9	1682.2	1617.3	1575.2	1534.9	1490.1	1465.4	1463.6	1449.9
5°	1843.2	1779.2	1676.7	1560.6	1436.2	1329.1	1221.2	1150.8	1087.6	1052.9	1046.5
7.5°	1855.1	1771.9	1606.3	1411.5	1199.2	1024.5	903.8	815.0	780.3	754.7	753.8
10°	1879.8	1759.1	1501.1	1213.9	951.3	774.8	691.5	651.3	632.1	624.8	613.8
12.5°	1898.1	1735.3	1393.2	1010.8	751.9	642.2	605.6	596.4	597.3	601.0	596.4
15°	1923.7	1714.2	1247.7	829.7	631.2	578.1	578.1	580.0	592.8	594.6	593.7
17.5°	1921.9	1673.1	1097.7	683.3	558.0	550.7	553.4	570.8	579.0	581.8	575.4
20°	1943.8	1634.7	943.1	583.6	516.8	527.8	546.1	550.7	560.7	562.6	555.3
22.5°	1937.4	1538.6	799.5	504.9	485.7	506.8	525.1	530.6	527.8	522.3	521.4
25°	1925.5	1456.3	667.8	452.8	462.9	485.7	503.1	493.0	487.6	488.5	489.4
27.5°	1904.5	1352.0	558.9	416.2	431.8	465.6	464.7	461.0	466.5	461.9	466.5
30°	1900.8	1247.7	469.3	383.3	408.9	433.6	435.4	441.8	448.2	440.0	448.2
32.5°	1906.3	1133.4	405.2	363.2	395.2	396.1	416.2	422.6	418.0	399.7	401.6
35°	1948.4	1045.6	358.6	352.2	373.2	374.1	393.3	385.1	365.0	354.0	360.4
37.5°	2037.1	972.4	336.6	342.1	343.9	355.8	356.8	340.3	342.1	341.2	344.9
40°	2150.6	916.6	321.1	333.0	331.1	339.4	306.4	315.6	323.8	326.6	328.4
42.5°	2228.3	876.3	311.0	318.3	314.7	300.0	281.7	290.9	297.3	307.4	309.2
45°	2263.1	844.3	299.1	292.7	292.7	266.2	258.9	260.7	275.3	286.3	284.5
47.5°	2206.4	813.2	278.1	258.9	265.3	243.3	235.1	235.1	250.6	264.4	261.6
48°	2184.4	800.4	279.0	251.6	256.1	239.7	231.4	229.6	247.0	259.8	259.8
50°	2075.6	752.8	255.2	231.4	222.3	220.5	215.0	216.8	227.8	239.7	239.7
52.5°	1863.3	650.4	215.9	198.5	182.0	193.0	195.8	192.1	197.6	208.6	207.6
55°	1555.1	499.5	172.9	164.7	151.8	163.7	169.2	164.7	159.2	167.4	167.4
57.5°	996.2	268.9	138.1	140.0	127.1	139.0	143.6	132.6	122.6	129.0	128.1
60°	449.1	161.0	113.4	110.7	102.5	116.2	123.5	110.7	97.0	101.5	106.1
62.5°	168.3	114.3	86.0	84.2	82.3	95.1	98.8	88.7	75.0	77.8	78.7
65°	123.5	100.6	68.6	62.2	65.9	75.0	73.2	63.1	54.0	54.0	55.8
67.5°	105.2	87.8	55.8	48.5	48.5	49.4	45.7	40.2	37.5	39.3	41.2
70°	82.3	69.5	43.9	37.5	33.8	30.2	26.5	25.6	22.9	25.6	24.7
72.5°	53.1	46.7	33.8	28.4	25.6	21.0	17.4	16.5	13.7	12.8	12.8
75°	28.4	28.4	26.5	22.9	20.1	16.5	13.7	11.0	7.3	5.5	5.5
77.5°	20.1	22.0	23.8	22.0	18.3	13.7	11.0	7.3	3.7	1.8	1.8
80°	19.2	22.0	23.8	21.0	18.3	13.7	10.1	5.5	2.7	0.9	0.9
82.5°	17.4	20.1	22.0	19.2	16.5	11.9	9.1	5.5	2.7	0.9	0.9
85°	3.7	4.6	5.5	5.5	6.4	8.2	6.4	4.6	1.8	0.9	0.9
87.5°	2.7	2.7	2.7	2.7	2.7	2.7	1.8	1.8	0.9	0.9	0.9
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)