

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: P527687

Luminaire Tested: **GALN-SA2D-727-U-SL3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P527687
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-19)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA2D-727-U-SL3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7608 lumens
Efficiency: N/A
Efficacy: 60.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

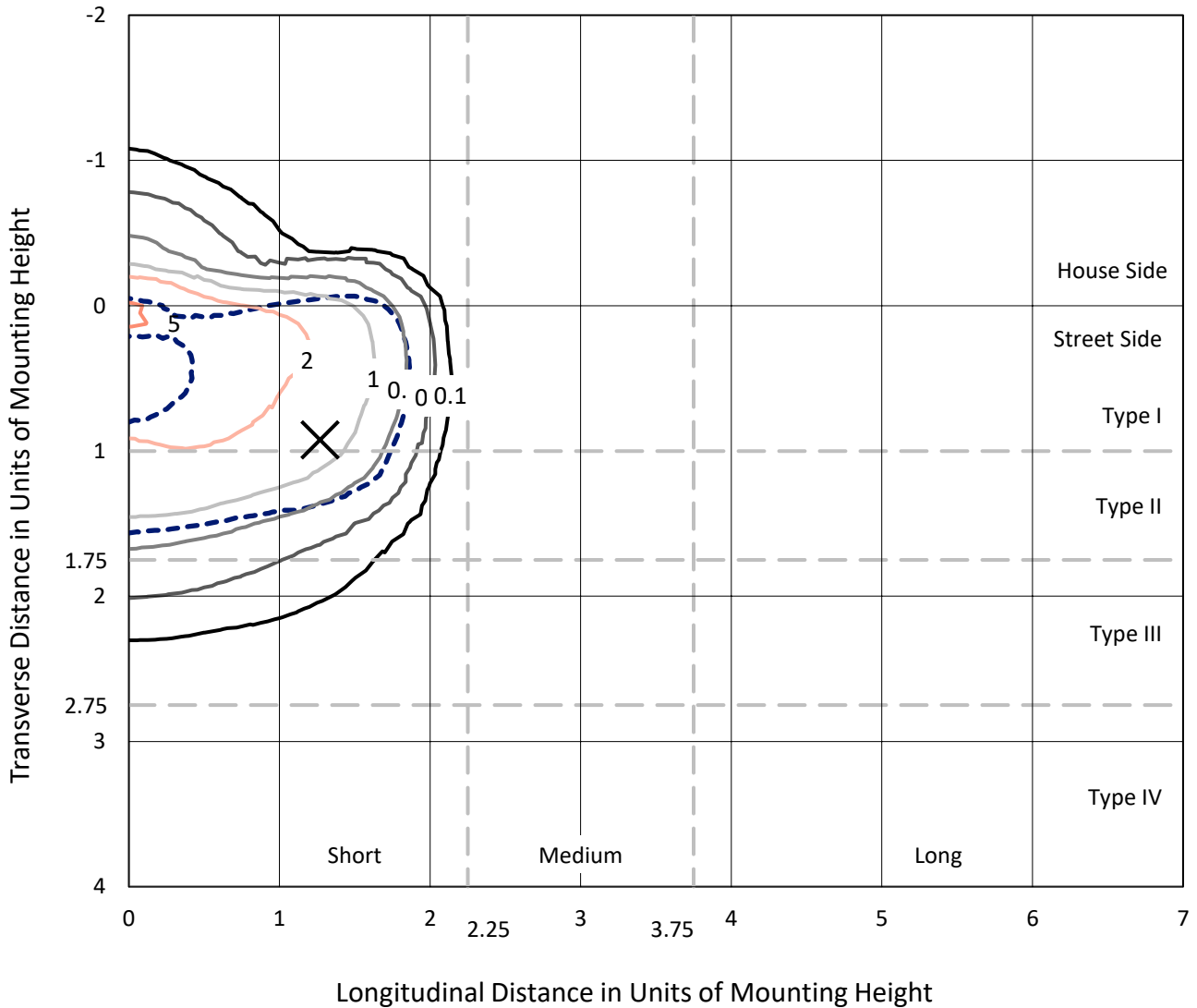
Input Watts (W): 125
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

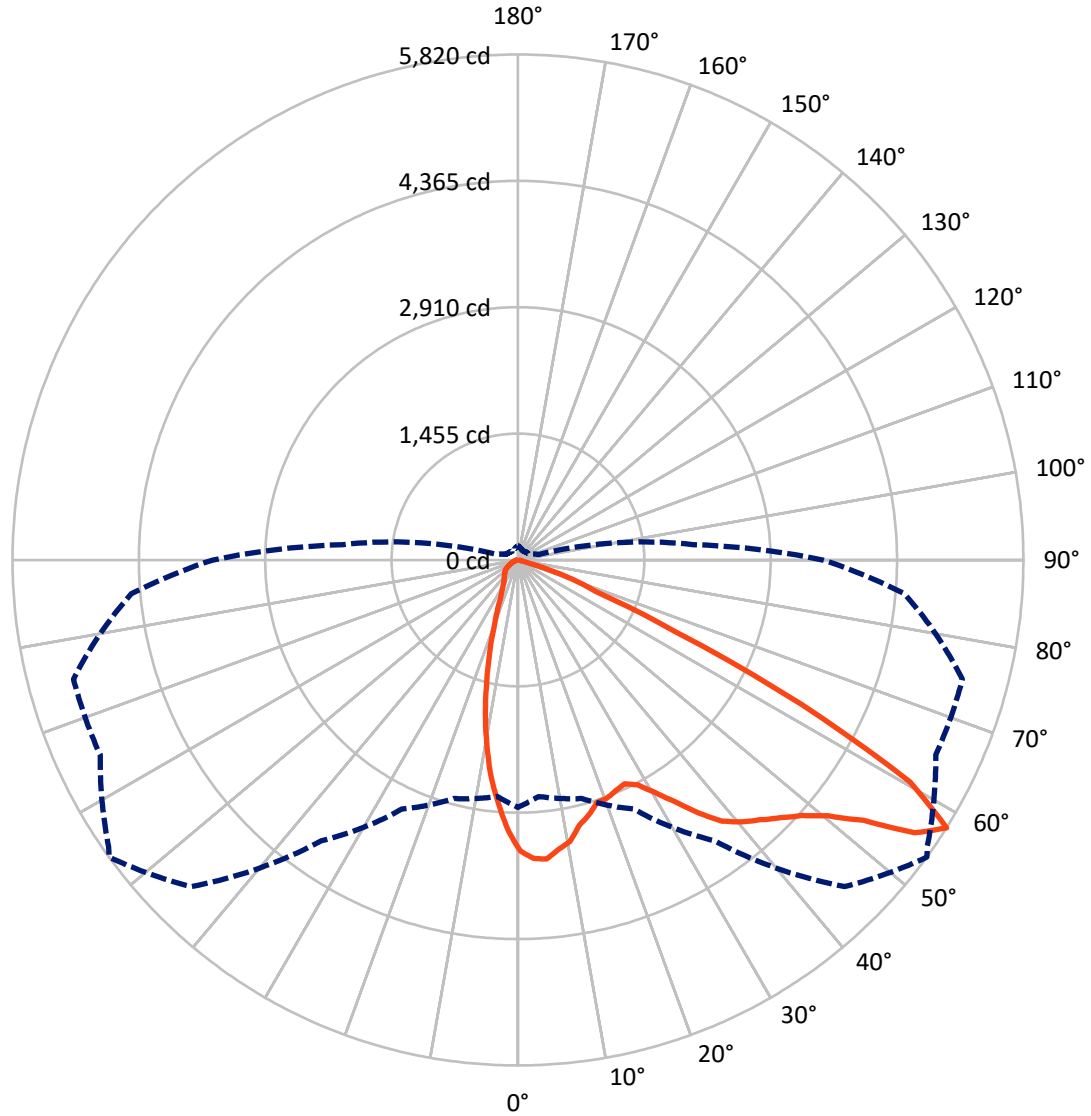
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1075.1	0.0	1075.1
	% Fixture	14.1	0.0	14.1
Street Side	Lumens	6532.9	0.0	6532.9
	% Fixture	85.9	0.0	85.9
Total	Lumens	7608.0	0.0	7608.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	280.5	3.7
10°-20°	598.8	7.9
20°-30°	793.5	10.4
30°-40°	1153.2	15.2
40°-50°	1710.0	22.5
50°-60°	2138.2	28.1
60°-70°	843.4	11.1
70°-80°	84.0	1.1
80°-90°	6.5	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°	7608.0	100.0
0°-180°	7608.0	100.0

Coefficient of Utilization



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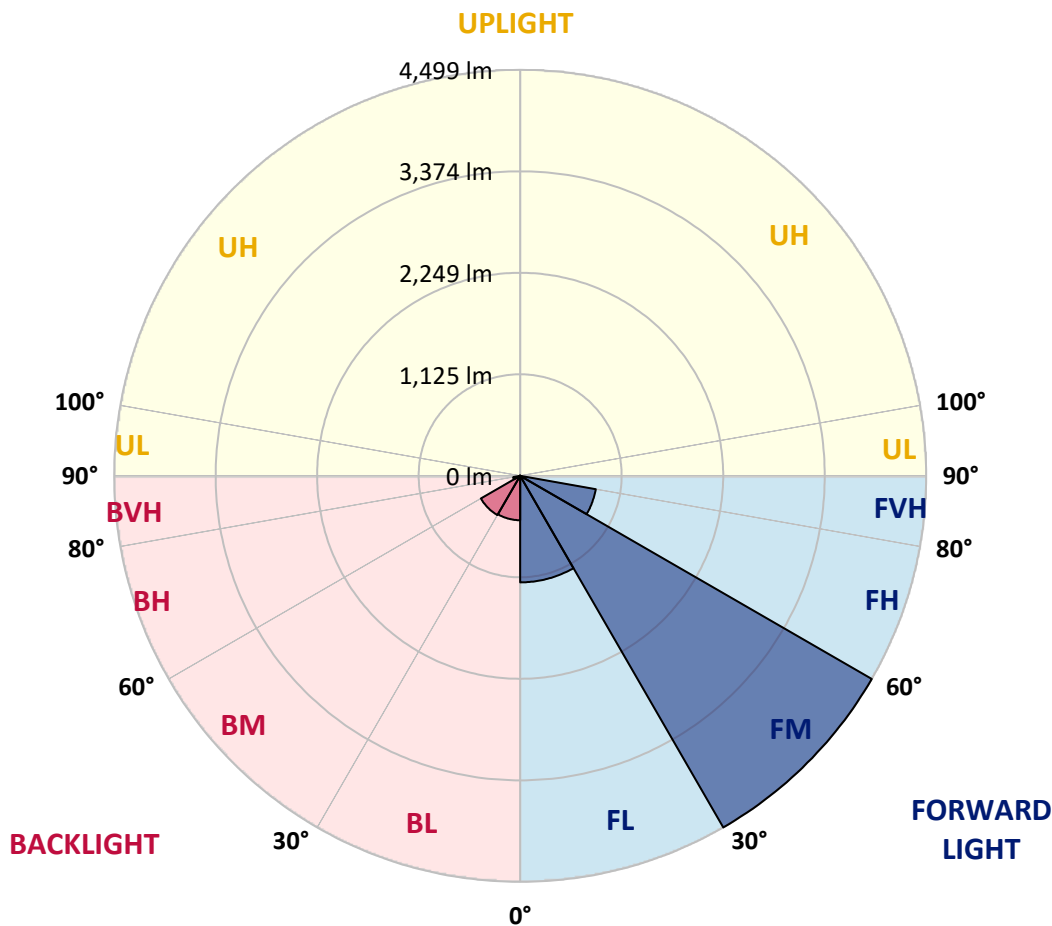
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1181.0	15.5			
FM (30°-60°)	4498.6	59.1			
FH (60°-80°)	850.3	11.2			G1/1800
FVH (80°-90°)	3.0	0.0			G0/10
BL (0°-30°)	491.7	6.5	B1/500		
BM (30°-60°)	502.8	6.6	B1/1000		
BH (60°-80°)	77.1	1.0	B0/110		G0/110
BVH (80°-90°)	3.6	0.0			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°	54°	55°	65°	75°	85°
0°	3351.4	3351.4	3351.4	3351.4	3351.4	3351.4	3351.4	3351.4	3351.4	3351.4	3351.4
2.5°	3546.7	3509.9	3512.7	3500.0	3483.0	3495.7	3440.6	3453.3	3451.9	3376.9	3327.4
5°	3457.5	3497.1	3456.1	3490.1	3457.5	3492.9	3458.9	3433.5	3392.5	3337.3	3245.3
7.5°	3306.2	3268.0	3279.3	3321.7	3328.8	3408.0	3365.6	3398.1	3381.1	3272.2	3146.3
10°	3002.0	2993.5	3050.1	3106.7	3176.0	3260.9	3293.4	3275.0	3262.3	3221.3	3052.9
12.5°	2768.6	2792.6	2791.2	2884.6	3002.0	3050.1	3135.0	3132.1	3202.9	3126.5	2965.2
15°	2546.5	2559.2	2618.6	2676.6	2806.8	2944.0	3048.7	3062.8	3147.7	3094.0	2897.3
17.5°	2410.7	2392.3	2438.9	2508.3	2641.2	2820.9	2936.9	2970.9	3086.9	3075.6	2819.5
20°	2276.3	2276.3	2314.5	2396.5	2518.2	2720.5	2927.0	2917.1	3086.9	3054.3	2736.0
22.5°	2231.0	2253.6	2263.5	2325.8	2470.1	2644.1	2884.6	2903.0	3110.9	3044.4	2699.2
25°	2293.2	2263.5	2266.4	2315.9	2451.7	2607.3	2853.5	2894.5	3154.8	3094.0	2669.5
27.5°	2303.1	2332.8	2341.3	2375.3	2465.8	2618.6	2931.3	3014.7	3263.7	3210.0	2678.0
30°	2389.4	2419.1	2417.7	2475.7	2538.0	2710.6	3105.3	3122.2	3488.7	3355.7	2730.4
32.5°	2494.1	2525.2	2535.1	2603.0	2652.6	2878.9	3317.5	3361.3	3705.1	3584.9	2867.6
35°	2624.3	2613.0	2658.2	2726.1	2832.2	3125.1	3576.4	3649.9	3938.5	3881.9	3009.1
37.5°	2787.0	2772.8	2816.7	2927.0	3071.3	3416.5	3815.4	3863.5	4108.3	4157.8	3270.8
40°	2901.6	2907.2	3040.2	3188.7	3341.5	3693.8	3966.8	4013.5	4227.1	4415.3	3468.8
42.5°	3092.5	3127.9	3287.8	3468.8	3628.7	3901.7	4089.9	4135.2	4282.3	4621.8	3736.2
45°	3369.8	3354.3	3531.1	3733.4	3910.2	4118.2	4235.6	4220.1	4314.8	4827.0	3904.6
47.5°	3726.3	3729.2	3846.6	4019.2	4203.1	4306.3	4398.3	4343.1	4382.7	5043.4	4129.5
50°	3969.7	3990.9	4085.7	4262.5	4354.4	4512.9	4630.3	4596.4	4583.6	5173.6	4271.0
52.5°	4031.9	4095.6	4146.5	4367.2	4582.2	4832.6	4982.6	5054.7	4828.4	5217.4	4450.6
55°	3562.2	3618.8	3798.5	4101.2	4668.5	5339.1	5545.6	5547.0	5148.1	5412.6	4576.6
57.5°	2847.8	2733.2	2843.5	3164.7	3947.0	5317.9	5820.1	5753.6	5308.0	5298.1	4467.6
60°	1969.3	1941.0	1948.0	2075.4	2731.8	4230.0	5186.3	5272.6	4887.8	4592.1	3536.8
62.5°	1560.4	1536.4	1505.2	1491.1	1696.2	2635.6	3658.4	3780.1	3417.9	2977.9	2096.6
65°	1222.3	1208.2	1212.4	1269.0	1267.6	1495.3	2000.4	1950.9	1561.8	1154.4	659.3
67.5°	824.8	846.0	863.0	1034.1	1121.9	1041.2	966.2	937.9	507.9	213.6	145.7
70°	464.0	466.9	485.2	646.5	851.6	807.8	666.3	666.3	253.2	77.8	83.5
72.5°	253.2	244.7	227.8	278.7	379.1	384.8	297.1	258.9	75.0	50.9	46.7
75°	123.1	121.7	104.7	86.3	82.1	67.9	52.3	48.1	34.0	32.5	28.3
77.5°	25.5	24.0	12.7	12.7	14.1	15.6	19.8	19.8	24.0	24.0	19.8
80°	0.0	0.0	1.4	5.7	9.9	14.1	17.0	17.0	19.8	19.8	15.6
82.5°	0.0	0.0	1.4	4.2	8.5	12.7	15.6	17.0	19.8	21.2	17.0
85°	0.0	0.0	0.0	2.8	7.1	9.9	8.5	8.5	7.1	5.7	2.8
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3351.4	3351.4	3351.4	3351.4	3351.4	3351.4	3351.4	3351.4	3351.4	3351.4	3351.4
2.5°	3301.9	3299.1	3234.0	3197.2	3130.7	3072.7	3026.0	2992.1	2992.1	2970.9	2951.1
5°	3208.5	3184.5	3045.9	2956.7	2830.8	2737.4	2673.8	2624.3	2546.5	2567.7	2484.2
7.5°	3092.5	3031.7	2847.8	2712.0	2538.0	2405.0	2269.2	2148.9	2032.9	1980.6	2008.9
10°	2968.0	2861.9	2614.4	2399.3	2182.9	1939.6	1781.1	1588.7	1469.9	1462.8	1431.7
12.5°	2836.5	2716.2	2414.9	2117.8	1833.5	1540.6	1298.7	1119.0	1038.4	949.3	966.2
15°	2737.4	2559.2	2192.8	1834.9	1457.1	1161.5	918.1	779.5	703.1	681.9	674.8
17.5°	2629.9	2438.9	1966.4	1533.5	1143.1	836.1	660.7	594.2	564.5	564.5	560.2
20°	2518.2	2303.1	1741.5	1253.4	857.3	623.9	529.1	507.9	506.5	505.0	505.0
22.5°	2444.6	2147.5	1537.8	995.9	646.5	499.4	459.8	451.3	456.9	473.9	473.9
25°	2366.8	1997.6	1312.8	768.2	500.8	428.7	406.0	411.7	425.8	441.4	435.7
27.5°	2287.6	1899.9	1100.6	602.7	410.3	374.9	366.4	379.1	394.7	408.8	404.6
30°	2269.2	1795.3	899.7	456.9	352.3	326.8	332.5	343.8	359.3	365.0	370.7
32.5°	2297.5	1713.2	737.1	374.9	307.0	299.9	299.9	305.6	315.5	328.2	324.0
35°	2378.1	1666.5	582.9	325.4	281.5	274.5	273.0	278.7	284.4	288.6	284.4
37.5°	2501.2	1629.7	476.8	288.6	264.5	253.2	250.4	249.0	254.6	256.1	258.9
40°	2658.2	1649.5	404.6	266.0	247.6	234.8	226.4	226.4	226.4	230.6	232.0
42.5°	2828.0	1676.4	349.4	253.2	232.0	216.4	208.0	205.1	208.0	213.6	212.2
45°	3006.2	1728.8	314.1	233.4	217.9	198.1	186.7	183.9	191.0	202.3	200.9
47.5°	3173.2	1803.7	287.2	220.7	203.7	185.3	171.2	168.3	181.1	196.6	198.1
50°	3340.1	1933.9	277.3	210.8	193.8	172.6	159.9	157.0	171.2	191.0	195.2
52.5°	3532.5	2074.0	270.2	198.1	182.5	162.7	148.5	145.7	161.3	186.7	188.2
55°	3658.4	2192.8	264.5	175.4	161.3	147.1	135.8	134.4	151.4	174.0	179.7
57.5°	3511.3	2027.3	244.7	152.8	137.2	130.2	120.2	120.2	134.4	155.6	159.9
60°	2662.5	1334.1	174.0	123.1	116.0	111.8	107.5	107.5	118.8	134.4	135.8
62.5°	1559.0	718.7	111.8	99.0	99.0	94.8	87.7	87.7	99.0	107.5	108.9
65°	462.6	230.6	90.5	84.9	83.5	76.4	69.3	67.9	76.4	80.6	79.2
67.5°	133.0	106.1	75.0	70.7	69.3	58.0	53.8	52.3	53.8	50.9	49.5
70°	79.2	72.1	58.0	59.4	52.3	42.4	38.2	36.8	34.0	29.7	26.9
72.5°	43.9	43.9	42.4	45.3	36.8	28.3	24.0	19.8	15.6	12.7	11.3
75°	26.9	28.3	29.7	31.1	24.0	18.4	15.6	9.9	5.7	2.8	2.8
77.5°	18.4	19.8	21.2	22.6	19.8	17.0	12.7	7.1	1.4	0.0	0.0
80°	14.1	15.6	18.4	19.8	21.2	22.6	17.0	7.1	1.4	0.0	0.0
82.5°	15.6	17.0	21.2	19.8	19.8	19.8	15.6	7.1	1.4	0.0	0.0
85°	2.8	4.2	7.1	7.1	9.9	12.7	9.9	2.8	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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)