

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: P528153

Luminaire Tested: **GALN-SA3B-727-U-SL2-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P528153
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-17)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA3B-727-U-SL2-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8292 lumens
Efficiency: N/A
Efficacy: 68.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

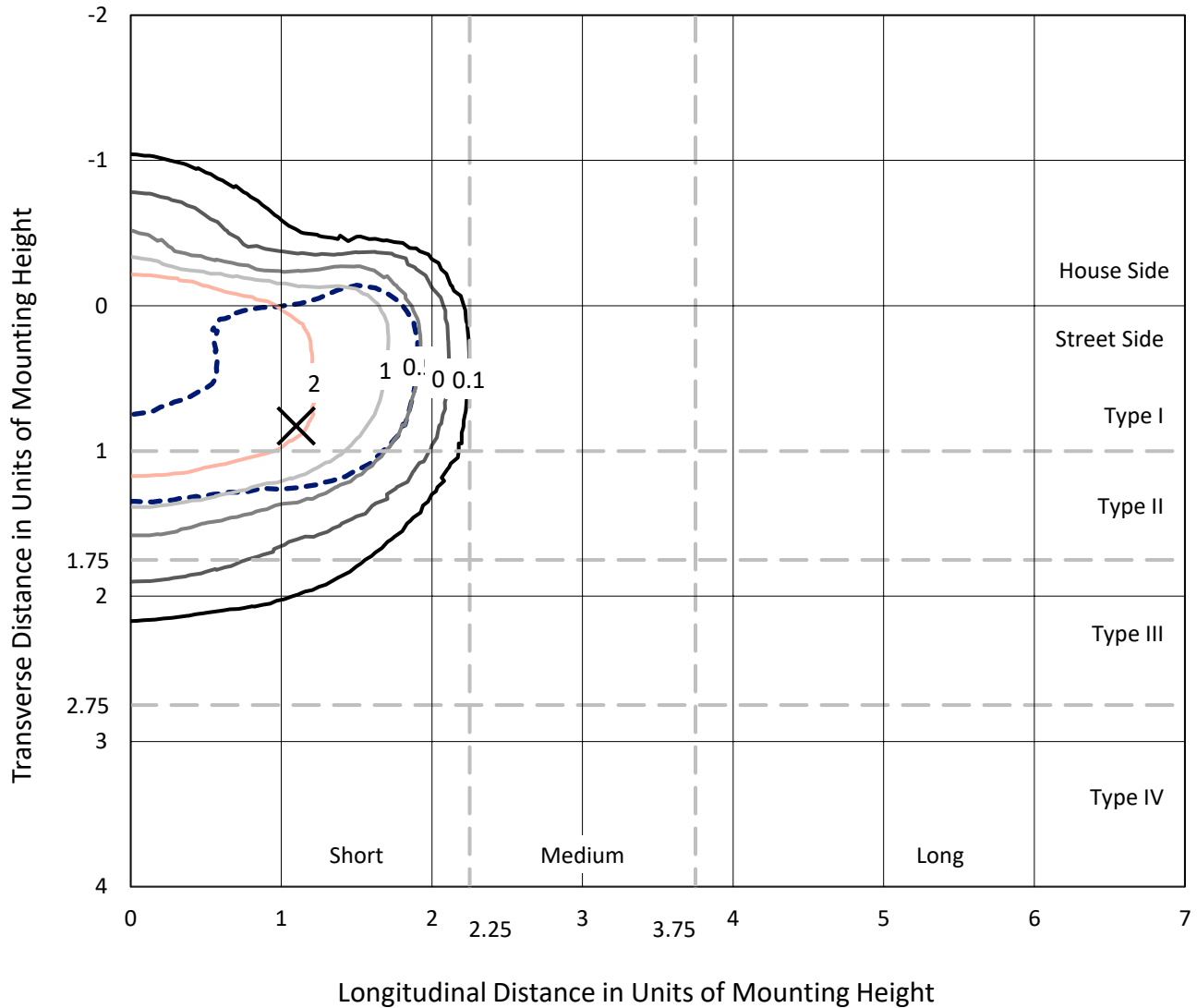
Input Watts (W): 121
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

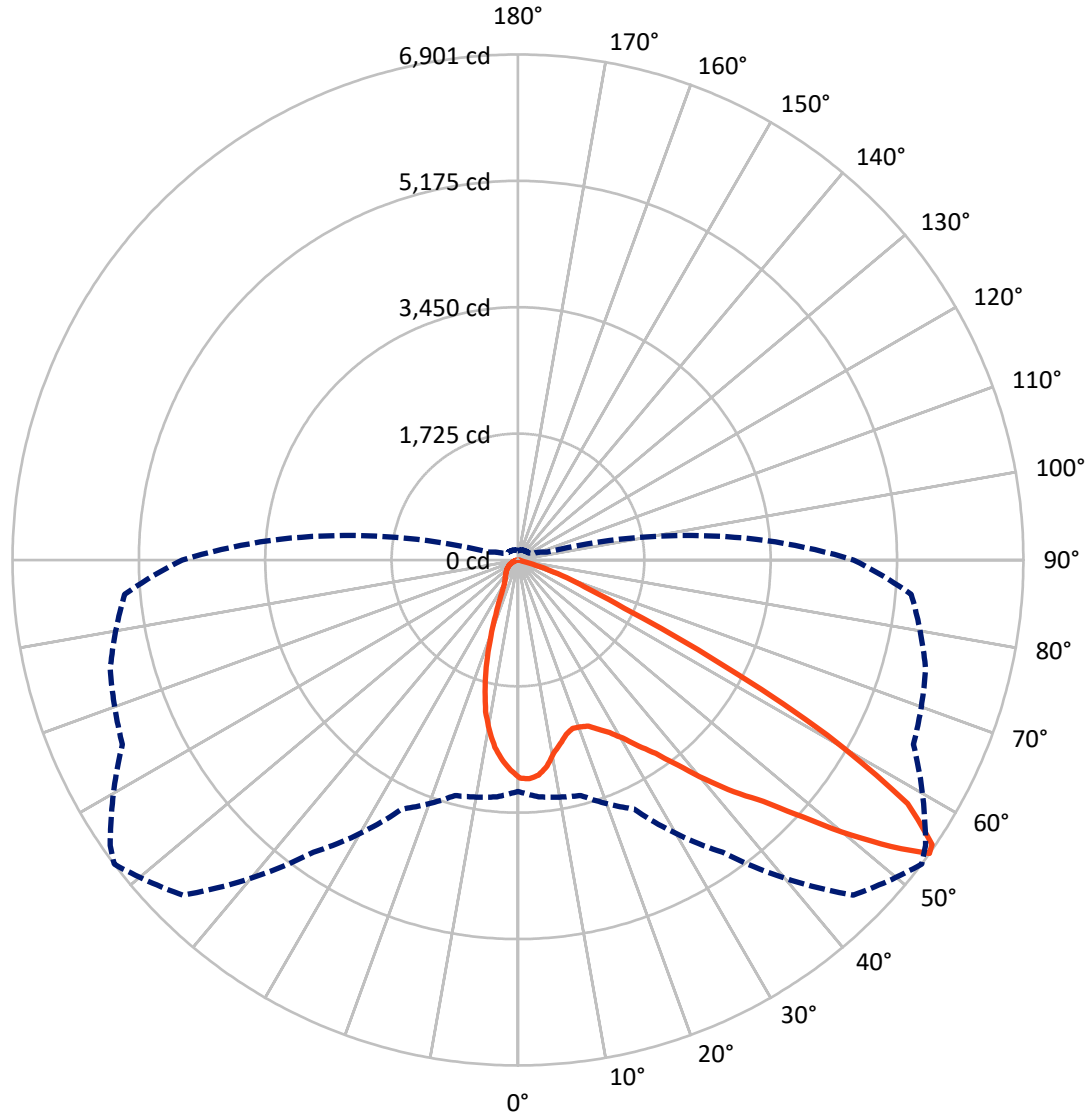
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral - - - Horizontal Cone Through 54-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1371.9	0.0	1371.9
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	6920.1	0.0	6920.1
	% Fixture	83.5	0.0	83.5
Total	Lumens	8292.0	0.0	8292.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	255.5	3.1
10°-20°	585.9	7.1
20°-30°	832.6	10.0
30°-40°	1285.0	15.5
40°-50°	2014.7	24.3
50°-60°	2340.4	28.2
60°-70°	884.3	10.7
70°-80°	84.1	1.0
80°-90°	9.5	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°	8292.0	100.0
0°-180°	8292.0	100.0

Coefficient of Utilization

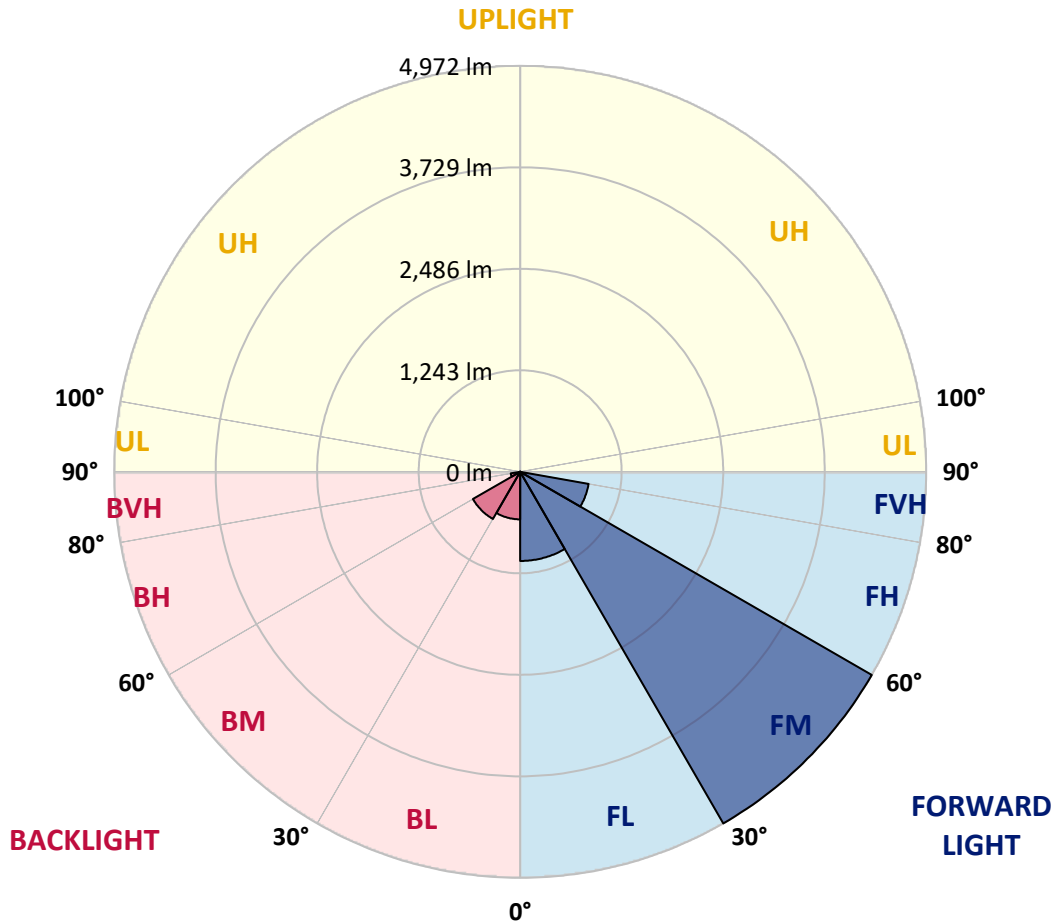


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1091.8	13.2			
FM (30°-60°)	4972.5	60.0			
FH (60°-80°)	850.9	10.3			G1/1800
FVH (80°-90°)	4.9	0.1			G0/10
BL (0°-30°)	582.2	7.0	B2/1000		
BM (30°-60°)	667.6	8.1	B1/1000		
BH (60°-80°)	117.5	1.4	B1/500		G1/500
BVH (80°-90°)	4.6	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	2978.3	2978.3	2978.3	2978.3	2978.3	2978.3	2978.3	2978.3	2978.3	2978.3	2978.3
2.5°	2962.9	2936.6	2962.9	2966.0	2984.5	3001.5	2990.7	3015.4	3001.5	2986.1	2981.4
5°	2723.5	2759.0	2760.5	2816.1	2803.8	2905.7	2950.5	2938.2	3013.9	3009.2	2998.4
7.5°	2508.7	2494.8	2513.4	2578.2	2660.1	2777.5	2842.4	2840.9	2949.0	3026.2	3018.5
10°	2309.5	2307.9	2346.5	2397.5	2467.0	2590.6	2680.2	2725.0	2893.4	3010.8	3027.8
12.5°	2175.1	2168.9	2210.6	2252.3	2362.0	2457.8	2572.1	2593.7	2786.8	2956.7	2984.5
15°	2087.0	2100.9	2104.0	2184.3	2253.8	2380.5	2470.1	2514.9	2737.4	2913.5	3020.1
17.5°	2071.6	2090.1	2091.6	2158.1	2232.2	2338.8	2417.6	2477.8	2695.7	2935.1	3021.6
20°	2102.5	2091.6	2100.9	2142.6	2215.2	2317.2	2431.5	2451.6	2681.7	2945.9	3038.6
22.5°	2190.5	2187.4	2164.2	2198.2	2249.2	2355.8	2463.9	2494.8	2721.9	3001.5	3052.5
25°	2287.8	2304.8	2283.2	2278.6	2314.1	2419.1	2562.8	2603.0	2856.3	3101.9	3095.8
27.5°	2470.1	2453.1	2453.1	2431.5	2422.2	2473.2	2669.4	2735.8	3006.2	3231.7	3145.2
30°	2644.7	2663.2	2649.3	2657.0	2595.2	2590.6	2820.8	2902.7	3271.9	3429.4	3250.2
32.5°	2921.2	2896.5	2919.6	2899.6	2817.7	2734.3	3026.2	3111.2	3593.2	3656.5	3407.8
35°	3151.4	3140.5	3239.4	3236.3	3103.5	3021.6	3244.0	3370.7	3817.2	3928.4	3593.2
37.5°	3478.9	3458.8	3571.5	3625.6	3506.7	3384.6	3556.1	3702.9	4025.7	4146.2	3783.2
40°	3815.6	3866.6	4018.0	4107.6	3980.9	3818.7	3937.7	3982.5	4164.7	4288.3	3912.9
42.5°	4242.0	4316.1	4470.6	4547.8	4537.0	4360.9	4325.4	4323.9	4265.2	4248.2	4008.7
45°	4651.3	4623.5	4861.4	5029.8	5165.8	5114.8	4699.2	4652.9	4424.3	4308.4	4033.4
47.5°	4830.5	4821.3	4983.5	5283.2	5746.6	5809.9	5243.0	5063.8	4693.1	4561.8	4167.8
50°	4598.8	4646.7	4807.4	5139.5	5850.1	6333.6	5910.3	5669.4	5006.7	4870.7	4486.1
52.5°	3841.9	3874.3	4027.3	4449.0	5497.9	6642.6	6549.9	6410.9	5582.9	5357.3	5040.6
54°	3159.1	3245.6	3329.0	3752.3	4870.7	6471.1	6900.6	6794.0	5958.2	5762.1	5389.8
55°	2751.3	2802.2	2862.5	3284.2	4436.6	6180.7	6860.4	6869.7	6210.0	5888.7	5624.6
57.5°	2009.8	2045.3	1983.5	2170.4	3046.3	5019.0	6274.9	6525.2	6549.9	6078.7	5768.2
60°	1535.5	1551.0	1481.4	1510.8	1893.9	3444.9	4853.7	5154.9	5908.8	5312.5	4886.2
62.5°	1191.0	1194.1	1192.6	1243.6	1305.3	2026.8	3035.5	3302.8	4073.6	3772.4	3318.2
65°	877.4	863.5	888.3	1042.7	1113.8	1274.4	1598.9	1793.5	2213.7	1869.2	1336.2
67.5°	568.5	573.1	597.8	775.5	954.7	977.8	984.0	968.6	970.1	534.5	335.2
70°	341.4	349.1	341.4	438.7	682.8	701.3	641.1	625.6	488.2	126.7	125.1
72.5°	202.4	191.6	171.5	188.5	284.2	339.9	305.9	304.3	191.6	74.1	74.1
75°	85.0	77.2	63.3	57.2	75.7	72.6	72.6	64.9	51.0	49.4	46.3
77.5°	17.0	17.0	12.4	13.9	18.5	21.6	26.3	26.3	30.9	30.9	29.4
80°	0.0	1.5	4.6	9.3	13.9	20.1	23.2	23.2	26.3	26.3	21.6
82.5°	0.0	1.5	4.6	9.3	12.4	18.5	23.2	23.2	26.3	27.8	23.2
85°	0.0	1.5	4.6	7.7	12.4	15.4	15.4	13.9	10.8	9.3	6.2
87.5°	0.0	0.0	1.5	3.1	1.5	3.1	3.1	3.1	3.1	3.1	3.1
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°	2978.3	2978.3	2978.3	2978.3	2978.3	2978.3	2978.3	2978.3	2978.3	2978.3	2978.3
2.5°	2992.2	2990.7	2953.6	2893.4	2879.5	2828.5	2822.3	2791.4	2808.4	2751.3	2745.1
5°	2967.5	2949.0	2904.2	2865.6	2752.8	2672.5	2609.1	2531.9	2487.1	2494.8	2465.5
7.5°	3003.1	2955.2	2876.4	2742.0	2604.5	2463.9	2388.2	2230.7	2173.5	2088.6	2076.2
10°	2966.0	2930.5	2808.4	2586.0	2396.0	2193.6	2015.9	1841.4	1708.5	1651.4	1639.0
12.5°	2962.9	2901.1	2697.2	2450.0	2175.1	1884.6	1626.7	1408.8	1277.5	1203.4	1186.4
15°	2915.0	2840.9	2572.1	2239.9	1859.9	1498.4	1217.3	1007.2	906.8	863.5	875.9
17.5°	2919.6	2808.4	2446.9	2017.5	1549.4	1099.9	831.1	723.0	696.7	707.5	707.5
20°	2915.0	2735.8	2295.6	1761.1	1186.4	763.1	610.2	571.6	588.6	622.5	614.8
22.5°	2890.3	2701.8	2156.5	1490.7	872.8	565.4	489.7	491.2	517.5	559.2	568.5
25°	2908.8	2626.1	1980.4	1217.3	636.5	451.1	424.8	435.6	463.4	494.3	500.5
27.5°	2894.9	2572.1	1796.6	945.4	465.0	387.7	386.2	398.6	410.9	434.1	434.1
30°	2910.4	2522.6	1615.8	702.9	383.1	355.3	349.1	358.4	370.7	375.4	373.8
32.5°	2967.5	2485.6	1407.3	525.2	338.3	324.4	324.4	324.4	322.9	329.0	330.6
35°	3092.7	2491.7	1223.5	406.3	309.0	298.1	293.5	287.3	284.2	287.3	288.9
37.5°	3228.6	2488.6	1033.5	346.0	287.3	278.1	267.2	258.0	256.4	259.5	254.9
40°	3288.8	2518.0	857.4	310.5	267.2	256.4	239.4	231.7	233.3	236.4	233.3
42.5°	3370.7	2527.3	743.0	282.7	248.7	231.7	220.9	211.6	210.1	214.7	213.2
45°	3369.2	2474.7	622.5	267.2	231.7	213.2	199.3	191.6	191.6	194.6	196.2
47.5°	3468.0	2467.0	534.5	253.3	219.4	200.8	183.8	177.7	176.1	176.1	173.0
50°	3698.2	2575.2	466.5	237.9	203.9	186.9	173.0	165.3	159.1	156.0	154.5
52.5°	4147.7	2911.9	414.0	219.4	186.9	173.0	160.7	154.5	146.8	139.0	137.5
54°	4583.4	3259.5	410.9	203.9	173.0	163.7	152.9	149.8	140.6	129.8	126.7
55°	4779.6	3461.9	421.7	191.6	163.7	157.6	148.3	145.2	135.9	123.6	122.0
57.5°	4941.8	3540.6	415.5	159.1	148.3	146.8	139.0	134.4	123.6	106.6	103.5
60°	3977.8	2677.1	298.1	140.6	135.9	132.9	126.7	123.6	109.7	91.1	89.6
62.5°	2513.4	1540.2	190.0	123.6	118.9	114.3	106.6	103.5	91.1	72.6	68.0
65°	1070.5	638.0	128.2	109.7	102.0	94.2	88.1	83.4	72.6	54.1	52.5
67.5°	278.1	227.1	106.6	95.8	85.0	74.1	69.5	61.8	49.4	37.1	35.5
70°	125.1	114.3	89.6	80.3	68.0	57.2	51.0	43.3	32.4	24.7	23.2
72.5°	74.1	72.6	68.0	60.2	51.0	43.3	37.1	29.4	21.6	13.9	13.9
75°	46.3	44.8	46.3	41.7	35.5	32.4	27.8	20.1	12.4	6.2	6.2
77.5°	27.8	27.8	27.8	26.3	24.7	24.7	20.1	12.4	6.2	1.5	1.5
80°	21.6	21.6	23.2	21.6	21.6	21.6	17.0	9.3	3.1	0.0	0.0
82.5°	21.6	23.2	26.3	24.7	21.6	18.5	15.4	9.3	3.1	0.0	0.0
85°	6.2	4.6	7.7	10.8	15.4	13.9	10.8	7.7	3.1	0.0	0.0
87.5°	3.1	3.1	3.1	3.1	1.5	1.5	1.5	1.5	1.5	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)