

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: P528071

Luminaire Tested: **GALN-SA3A-827-U-AFL-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P528071
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-SA3A-827-U-AFL-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 2700K, 615mA 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: 7486 lumens
Efficiency: N/A
Efficacy: 80.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G0

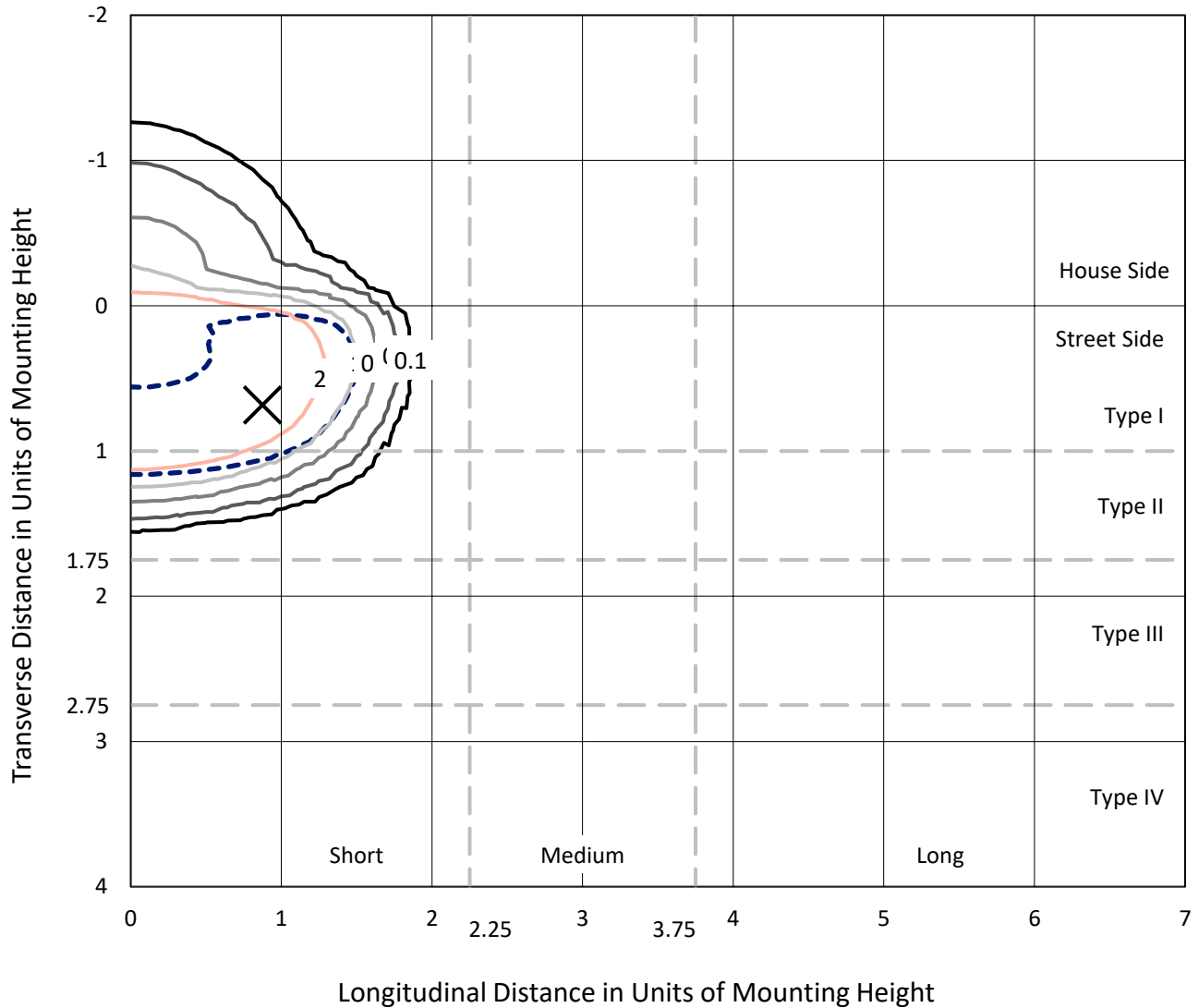
Input Watts (W): 93
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P528071
 CATALOG NUMBER: GALN-SA3A-827-U-AFL-GRSBK

Iso-Footcandle Lines of Horizontal Illumination

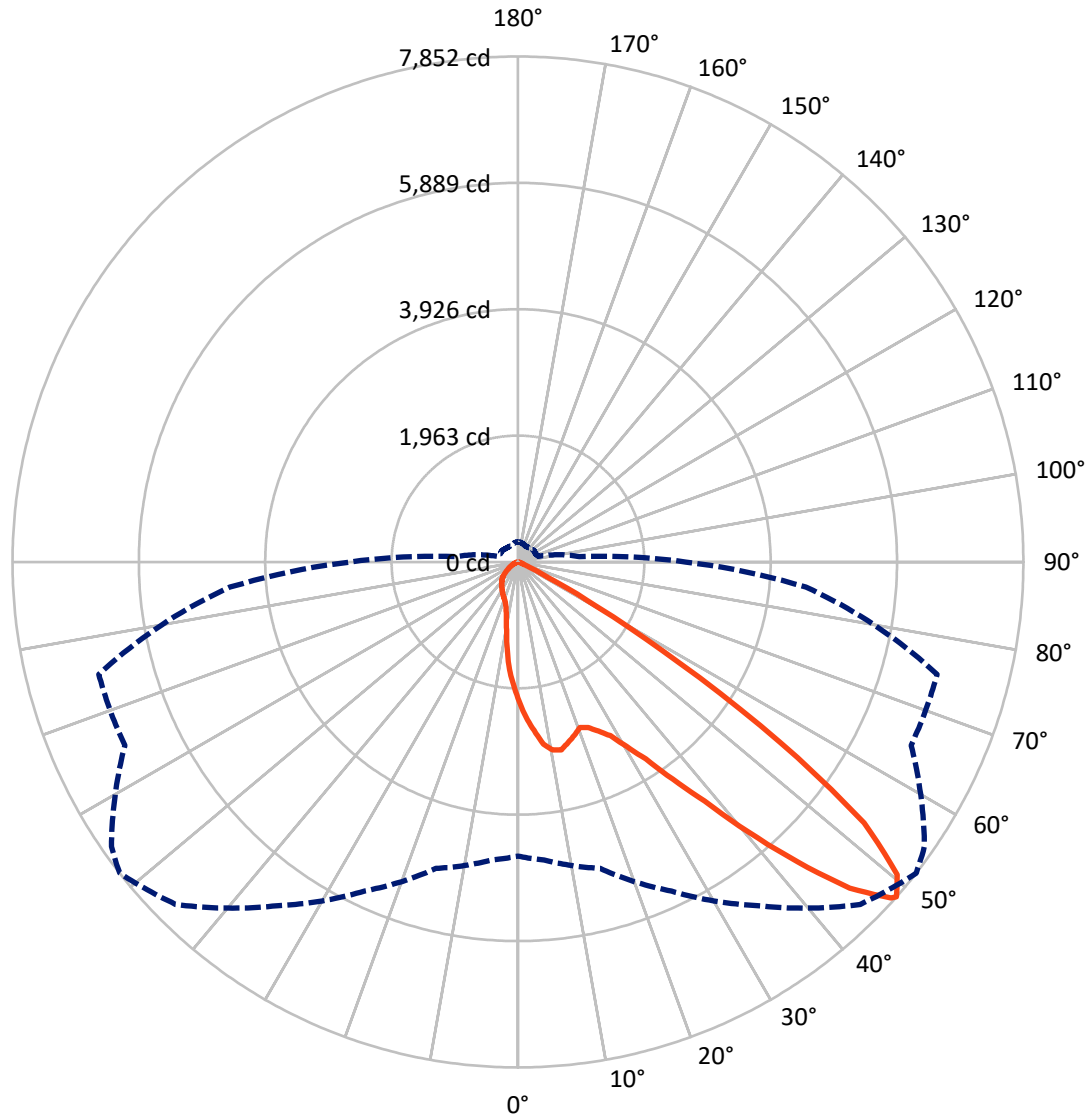
✕ Max cd
 - - - 1/2 Max cd



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

REPORT NUMBER: P528071
CATALOG NUMBER: GALN-SA3A-827-U-AFL-GRSBK

Luminous Intensity Polar Plot



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

REPORT NUMBER: P528071

CATALOG NUMBER: GALN-SA3A-827-U-AFL-GRSBK

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	911.5	0.0	911.5
	% Fixture	12.2	0.0	12.2
Street Side	Lumens	6574.5	0.0	6574.5
	% Fixture	87.8	0.0	87.8
Total	Lumens	7486.0	0.0	7486.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	197.9	2.6
10°-20°	517.1	6.9
20°-30°	882.9	11.8
30°-40°	1625.9	21.7
40°-50°	2525.0	33.7
50°-60°	1519.6	20.3
60°-70°	175.8	2.3
70°-80°	34.0	0.5
80°-90°	7.9	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°	7486.0	100.0
0°-180°	7486.0	100.0

Coefficient of Utilization



REPORT NUMBER: P528071

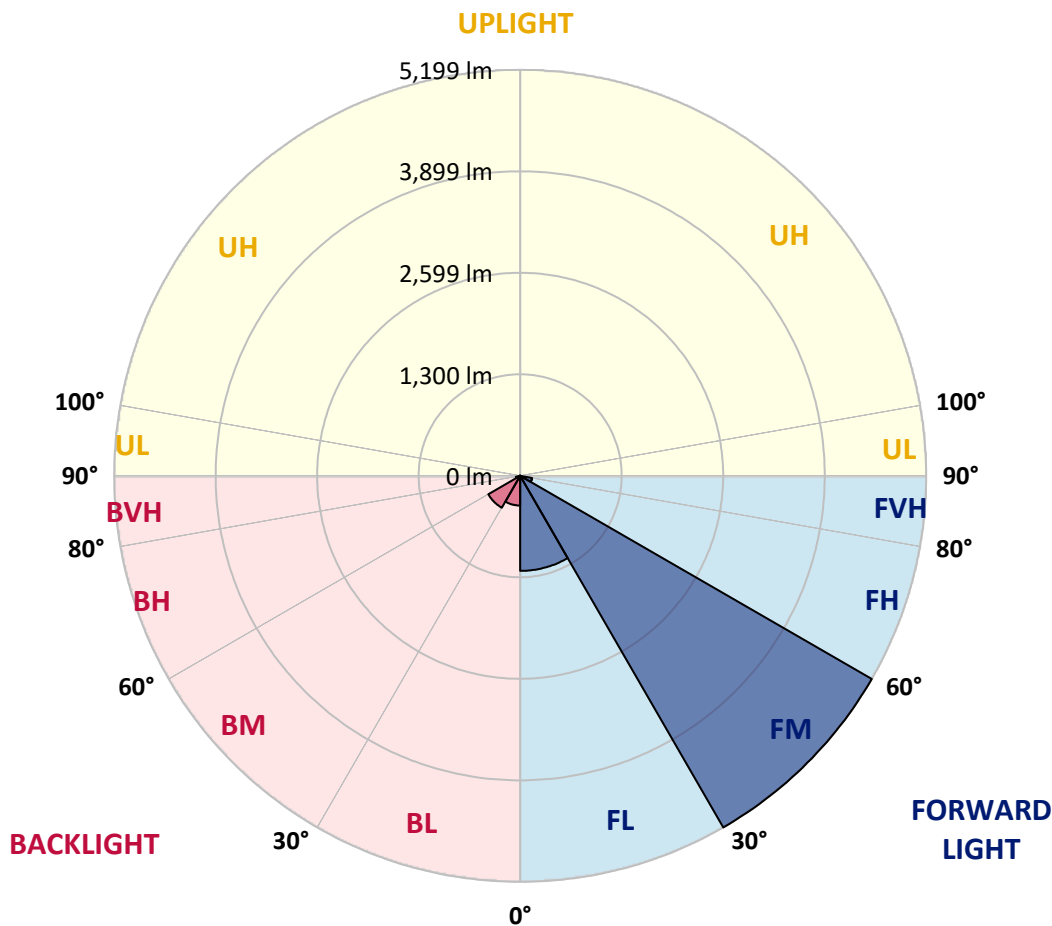
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1217.1	16.3			
FM (30°-60°)	5198.9	69.4			
FH (60°-80°)	154.8	2.1			G0/660
FVH (80°-90°)	3.7	0.1			G0/10
BL (0°-30°)	380.8	5.1	B1/500		
BM (30°-60°)	471.6	6.3	B1/1000		
BH (60°-80°)	55.0	0.7	B0/110		G0/110
BVH (80°-90°)	4.1	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





REPORT NUMBER: P528071

CATALOG NUMBER: GALN-SA3A-827-U-AFL-GRSBK

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	52°	55°	65°	75°	85°
0°	2161.8	2161.8	2161.8	2161.8	2161.8	2161.8	2161.8	2161.8	2161.8	2161.8	2161.8
2.5°	2620.2	2560.2	2565.6	2526.3	2503.4	2466.3	2416.1	2406.3	2351.7	2277.5	2202.2
5°	2855.9	2841.7	2860.3	2803.5	2805.7	2744.6	2626.7	2628.9	2503.4	2382.3	2265.5
7.5°	2871.2	2838.4	2857.0	2907.2	2936.6	2925.7	2859.2	2801.3	2682.4	2504.5	2334.3
10°	2571.1	2633.3	2652.9	2735.8	2853.7	2978.1	2970.5	2973.7	2874.4	2642.0	2393.2
12.5°	2391.0	2349.5	2416.1	2466.3	2644.2	2885.4	2995.6	3019.6	3027.2	2775.1	2452.1
15°	2309.2	2309.2	2320.1	2334.3	2463.0	2685.6	2910.5	2980.3	3145.1	2949.7	2544.9
17.5°	2360.4	2358.3	2373.5	2344.1	2392.1	2563.4	2831.9	2911.5	3277.1	3121.1	2618.0
20°	2516.5	2524.1	2514.3	2429.2	2432.5	2561.2	2744.6	2870.1	3366.6	3269.5	2715.1
22.5°	2733.7	2738.0	2682.4	2589.6	2562.3	2625.6	2794.8	2890.8	3438.6	3447.4	2744.6
25°	2984.7	2967.2	2956.3	2825.3	2742.4	2797.0	2908.3	2963.9	3483.4	3600.1	2828.6
27.5°	3332.8	3297.9	3231.3	3114.5	3053.4	2975.9	3055.6	3147.3	3611.1	3814.0	2920.3
30°	3846.8	3816.2	3686.4	3535.8	3375.3	3298.9	3324.0	3374.2	3841.3	4061.8	3041.4
32.5°	4620.5	4556.1	4368.4	4081.4	3863.1	3652.5	3646.0	3699.5	4047.6	4404.4	3185.5
35°	5472.8	5453.1	5177.0	4881.3	4459.0	4133.8	4139.2	4167.6	4442.6	4854.0	3374.2
37.5°	6039.2	6147.2	5971.5	5653.9	5299.3	4834.4	4716.5	4726.3	4985.0	5386.6	3714.7
40°	6476.8	6385.1	6405.8	6331.6	6089.4	5772.9	5512.1	5460.8	5612.5	5975.9	4053.0
42.5°	6285.8	6290.2	6417.8	6593.5	6653.6	6630.6	6364.4	6267.2	6149.4	6458.2	4375.0
45°	5746.7	5859.1	6025.0	6489.9	6898.0	7281.0	7228.7	7067.2	6520.4	6840.2	4560.5
47.5°	4886.8	4882.4	5154.1	5758.7	6665.6	7562.6	7800.5	7687.0	6783.4	6797.6	4522.3
48°	4569.2	4647.8	4928.2	5639.8	6518.2	7521.1	7851.8	7708.8	6738.7	6740.9	4489.5
50°	3377.5	3363.3	3712.5	4585.6	5822.0	7067.2	7635.7	7747.0	6737.6	6453.9	4260.4
52.5°	1784.2	1845.4	2099.6	2883.2	4116.3	5783.8	6735.4	6908.9	6499.7	5984.6	3930.8
55°	758.4	685.3	880.7	1301.9	2315.7	3864.2	4941.3	5327.6	5495.7	5296.0	3438.6
57.5°	270.6	295.7	340.5	490.0	973.4	2114.9	2946.5	3246.6	3807.5	3886.1	2343.0
60°	173.5	176.8	191.0	224.8	365.6	815.2	1397.9	1636.9	1891.2	1952.3	1093.5
62.5°	134.2	135.3	141.9	147.3	173.5	316.5	524.9	622.0	646.0	555.5	287.0
65°	112.4	113.5	115.7	115.7	123.3	148.4	183.3	201.9	196.4	194.2	162.6
67.5°	86.2	88.4	92.8	92.8	97.1	90.6	101.5	108.0	122.2	148.4	138.6
70°	67.7	68.8	72.0	74.2	74.2	65.5	73.1	79.7	89.5	110.2	109.1
72.5°	52.4	54.6	56.7	56.7	53.5	44.7	52.4	57.8	64.4	76.4	74.2
75°	40.4	40.4	41.5	33.8	26.2	22.9	31.6	38.2	48.0	50.2	41.5
77.5°	10.9	12.0	10.9	9.8	10.9	16.4	20.7	24.0	30.6	30.6	27.3
80°	0.0	1.1	3.3	6.5	10.9	15.3	18.6	20.7	24.0	26.2	25.1
82.5°	0.0	1.1	3.3	6.5	9.8	12.0	16.4	17.5	19.6	22.9	22.9
85°	0.0	1.1	2.2	4.4	6.5	7.6	7.6	6.5	6.5	5.5	4.4
87.5°	0.0	0.0	1.1	2.2	2.2	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



REPORT NUMBER: P528071

CATALOG NUMBER: GALN-SA3A-827-U-AFL-GRSBK

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2161.8	2161.8	2161.8	2161.8	2161.8	2161.8	2161.8	2161.8	2161.8	2161.8	2161.8
2.5°	2172.7	2138.9	2087.6	2006.9	1929.4	1879.2	1831.2	1777.7	1748.2	1746.1	1729.7
5°	2198.9	2122.5	2000.3	1861.7	1713.3	1585.6	1456.9	1372.8	1297.5	1256.1	1248.4
7.5°	2213.1	2113.8	1916.3	1683.9	1430.7	1222.2	1078.2	972.3	930.9	900.3	899.2
10°	2242.6	2098.5	1790.8	1448.1	1134.9	924.3	825.0	777.0	754.1	745.3	732.3
12.5°	2264.4	2070.2	1662.0	1205.9	897.0	766.1	722.4	711.5	712.6	717.0	711.5
15°	2295.0	2045.1	1488.5	989.8	753.0	689.7	689.7	691.9	707.2	709.3	708.2
17.5°	2292.8	1996.0	1309.5	815.2	665.7	657.0	660.2	681.0	690.8	694.1	686.4
20°	2319.0	1950.1	1125.1	696.2	616.6	629.7	651.5	657.0	669.0	671.1	662.4
22.5°	2311.3	1835.5	953.8	602.4	579.5	604.6	626.4	632.9	629.7	623.1	622.0
25°	2297.2	1737.3	796.6	540.2	552.2	579.5	600.2	588.2	581.7	582.7	583.8
27.5°	2272.1	1612.9	666.8	496.5	515.1	555.5	554.4	550.0	556.6	551.1	556.6
30°	2267.7	1488.5	559.8	457.2	487.8	517.3	519.5	527.1	534.7	524.9	534.7
32.5°	2274.2	1352.1	483.4	433.2	471.4	472.5	496.5	504.2	498.7	476.9	479.1
35°	2324.4	1247.3	427.8	420.1	445.2	446.3	469.3	459.4	435.4	422.3	430.0
37.5°	2430.3	1160.0	401.6	408.1	410.3	424.5	425.6	406.0	408.1	407.0	411.4
40°	2565.6	1093.5	383.0	397.2	395.0	404.9	365.6	376.5	386.3	389.6	391.8
42.5°	2658.4	1045.4	371.0	379.8	375.4	357.9	336.1	347.0	354.7	366.7	368.9
45°	2699.8	1007.3	356.8	349.2	349.2	317.6	308.8	311.0	328.5	341.6	339.4
47.5°	2632.2	970.2	331.8	308.8	316.5	290.3	280.5	280.5	299.0	315.4	312.1
48°	2606.0	954.9	332.8	300.1	305.6	285.9	276.1	273.9	294.6	309.9	309.9
50°	2476.1	898.1	304.5	276.1	265.2	263.0	256.5	258.6	271.7	285.9	285.9
52.5°	2222.9	775.9	257.5	236.8	217.2	230.3	233.5	229.2	235.7	248.8	247.7
55°	1855.2	595.8	206.3	196.4	181.2	195.3	201.9	196.4	189.9	199.7	199.7
57.5°	1188.4	320.8	164.8	167.0	151.7	165.9	171.3	158.2	146.2	153.9	152.8
60°	535.8	192.1	135.3	132.0	122.2	138.6	147.3	132.0	115.7	121.1	126.6
62.5°	200.8	136.4	102.6	100.4	98.2	113.5	117.9	105.9	89.5	92.8	93.9
65°	147.3	120.0	81.8	74.2	78.6	89.5	87.3	75.3	64.4	64.4	66.6
67.5°	125.5	104.8	66.6	57.8	57.8	58.9	54.6	48.0	44.7	46.9	49.1
70°	98.2	82.9	52.4	44.7	40.4	36.0	31.6	30.6	27.3	30.6	29.5
72.5°	63.3	55.7	40.4	33.8	30.6	25.1	20.7	19.6	16.4	15.3	15.3
75°	33.8	33.8	31.6	27.3	24.0	19.6	16.4	13.1	8.7	6.5	6.5
77.5°	24.0	26.2	28.4	26.2	21.8	16.4	13.1	8.7	4.4	2.2	2.2
80°	22.9	26.2	28.4	25.1	21.8	16.4	12.0	6.5	3.3	1.1	1.1
82.5°	20.7	24.0	26.2	22.9	19.6	14.2	10.9	6.5	3.3	1.1	1.1
85°	4.4	5.5	6.5	6.5	7.6	9.8	7.6	5.5	2.2	1.1	1.1
87.5°	3.3	3.3	3.3	3.3	3.3	3.3	2.2	2.2	1.1	1.1	1.1
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)