

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: P528545

Luminaire Tested: **GALN-SA3C-827-U-SL3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P528545
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-SA3C-827-U-SL3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 2700K, 1050mA 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: 9023 lumens
Efficiency: N/A
Efficacy: 56.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

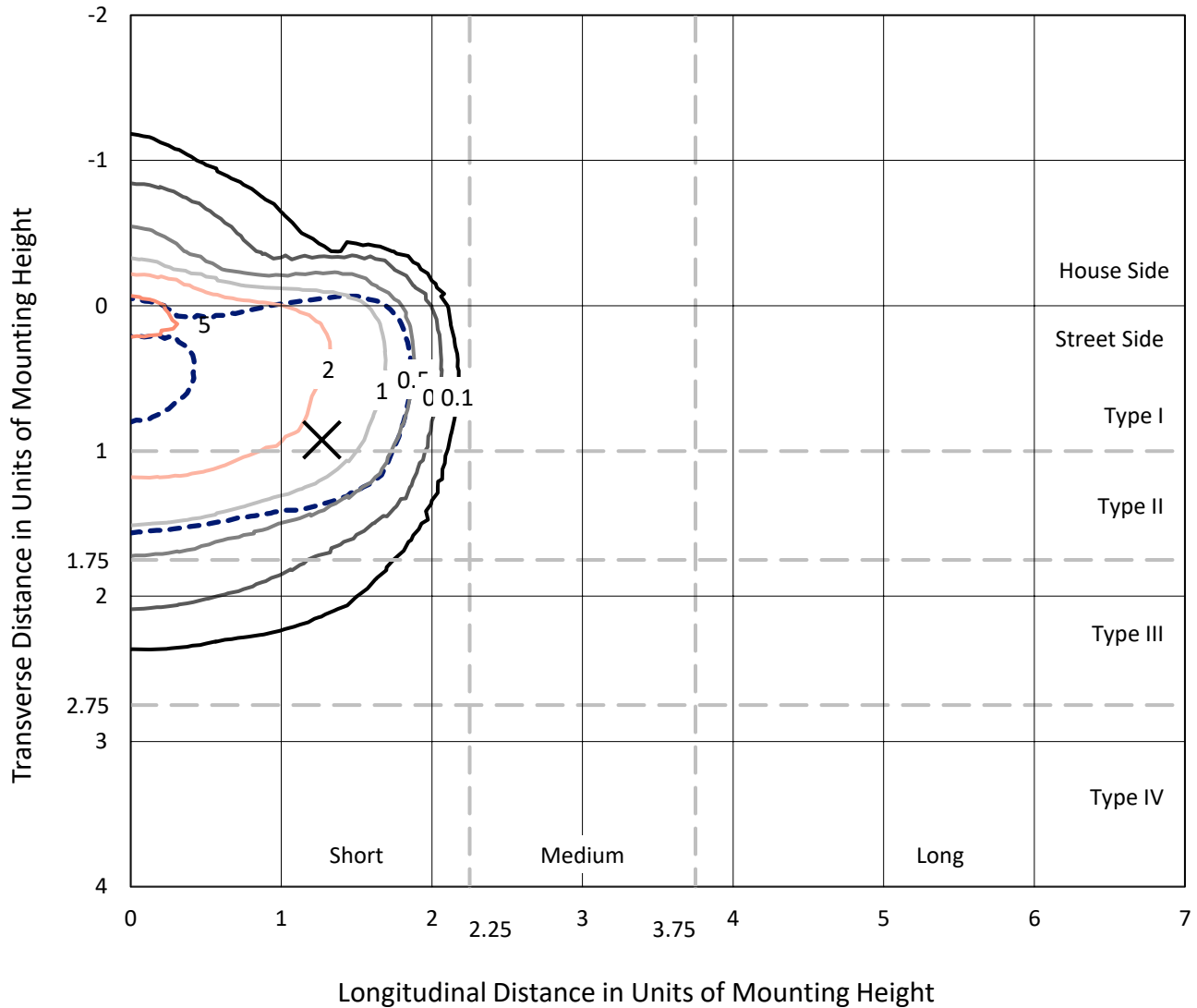
Input Watts (W): 160
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

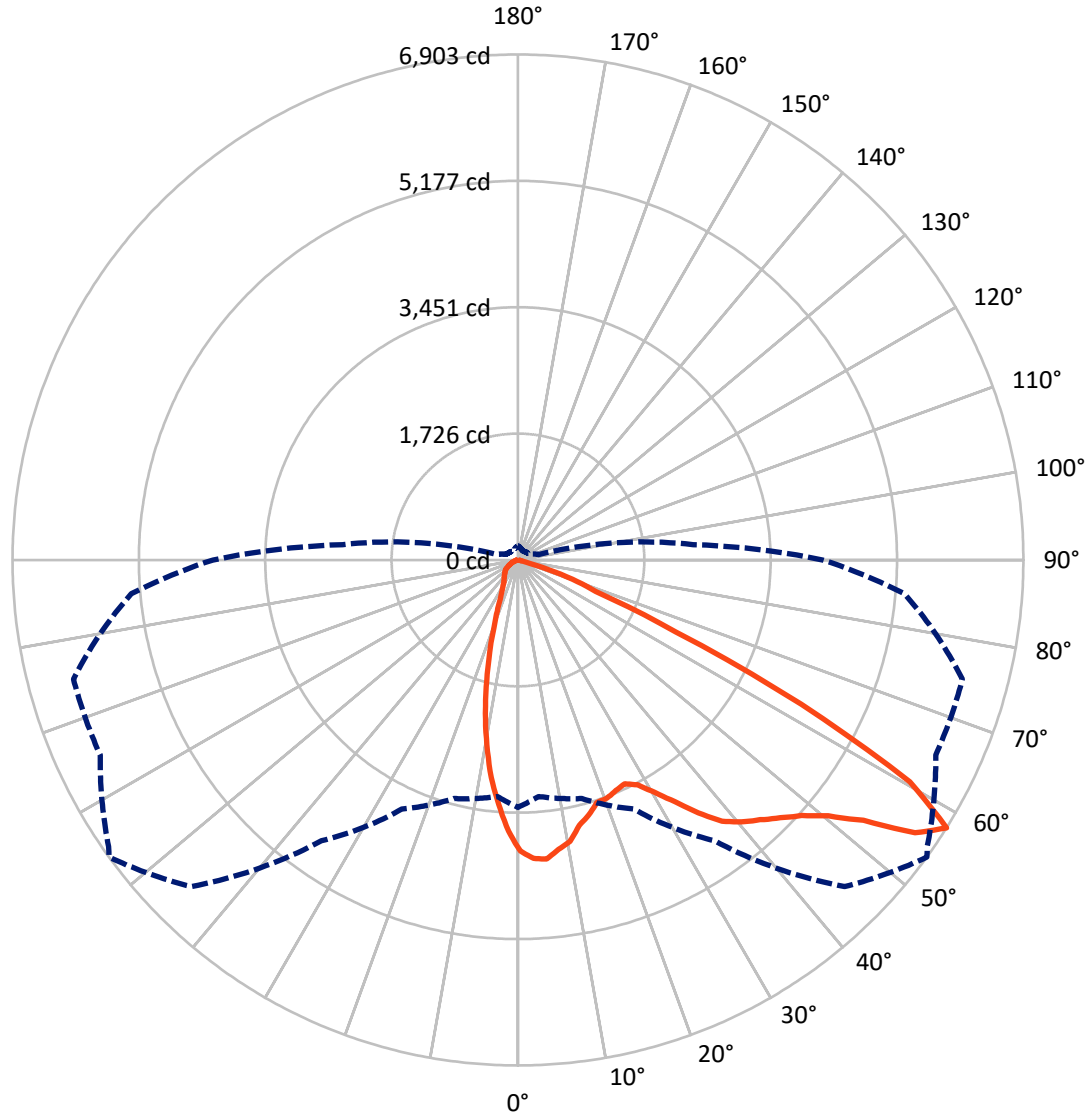
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.4 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	1275.1	0.0	1275.1
	% Fixture	14.1	0.0	14.1
Street Side	Lumens	7747.9	0.0	7747.9
	% Fixture	85.9	0.0	85.9
Total	Lumens	9023.0	0.0	9023.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	332.6	3.7
10°-20°	710.1	7.9
20°-30°	941.1	10.4
30°-40°	1367.6	15.2
40°-50°	2028.0	22.5
50°-60°	2535.9	28.1
60°-70°	1000.3	11.1
70°-80°	99.6	1.1
80°-90°	7.7	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°	9023.0	100.0
0°-180°	9023.0	100.0

Coefficient of Utilization



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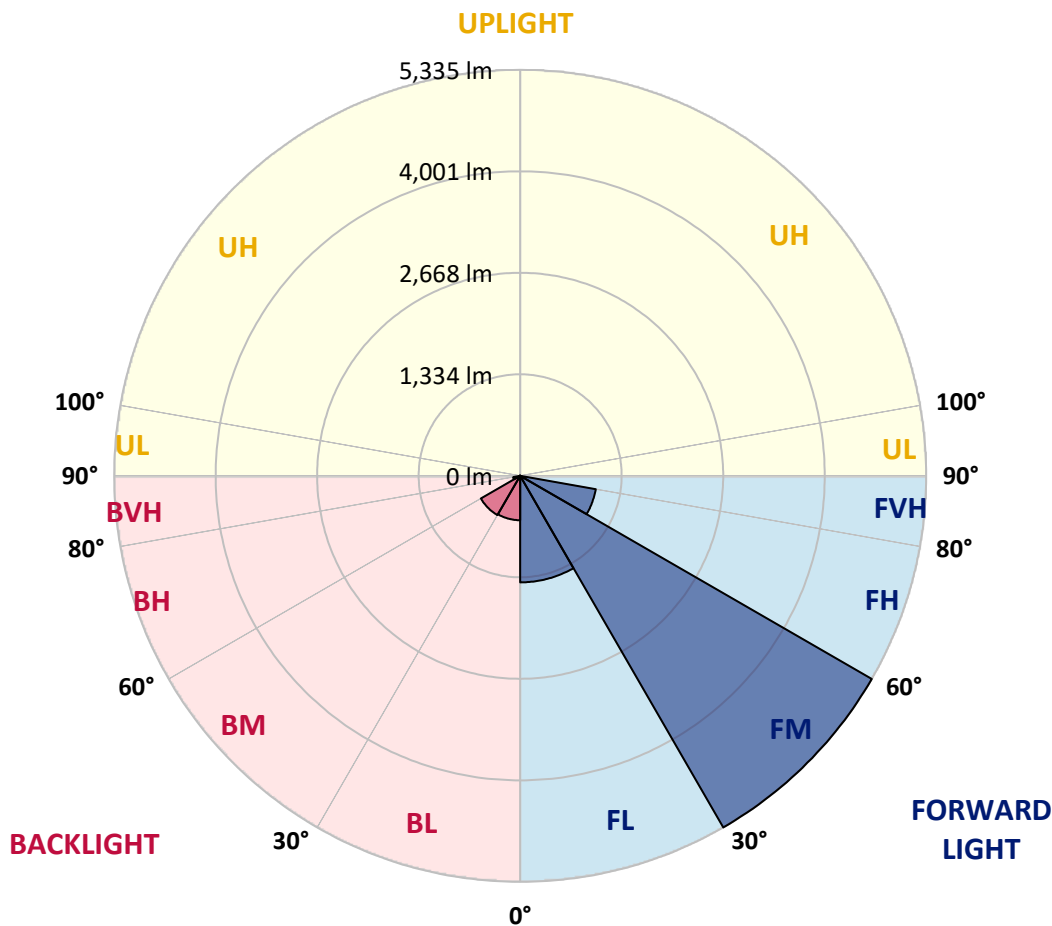
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1400.6	15.5			
FM (30°-60°)	5335.3	59.1			
FH (60°-80°)	1008.5	11.2			G1/1800
FVH (80°-90°)	3.5	0.0			G0/10
BL (0°-30°)	583.2	6.5	B2/1000		
BM (30°-60°)	596.3	6.6	B1/1000		
BH (60°-80°)	91.4	1.0	B0/110		G0/110
BVH (80°-90°)	4.2	0.0			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°	54°	55°	65°	75°	85°
0°	3974.8	3974.8	3974.8	3974.8	3974.8	3974.8	3974.8	3974.8	3974.8	3974.8	3974.8
2.5°	4206.3	4162.7	4166.0	4150.9	4130.8	4145.9	4080.5	4095.6	4093.9	4005.0	3946.2
5°	4100.6	4147.6	4098.9	4139.2	4100.6	4142.5	4102.3	4072.1	4023.4	3958.0	3848.9
7.5°	3921.1	3875.8	3889.2	3939.5	3947.9	4041.9	3991.5	4030.1	4010.0	3880.8	3731.5
10°	3560.3	3550.3	3617.4	3684.5	3766.7	3867.4	3906.0	3884.2	3869.1	3820.4	3620.7
12.5°	3283.5	3312.0	3310.3	3421.1	3560.3	3617.4	3718.0	3714.7	3798.6	3708.0	3516.7
15°	3020.1	3035.2	3105.6	3174.4	3328.8	3491.5	3615.7	3632.5	3733.1	3669.4	3436.2
17.5°	2859.0	2837.2	2892.6	2974.8	3132.5	3345.6	3483.2	3523.4	3661.0	3647.6	3343.9
20°	2699.6	2699.6	2744.9	2842.2	2986.5	3226.4	3471.4	3459.7	3661.0	3622.4	3244.9
22.5°	2645.9	2672.8	2684.5	2758.3	2929.5	3135.8	3421.1	3442.9	3689.5	3610.7	3201.3
25°	2719.7	2684.5	2687.9	2746.6	2907.7	3092.2	3384.2	3432.8	3741.5	3669.4	3166.0
27.5°	2731.5	2766.7	2776.8	2817.1	2924.4	3105.6	3476.4	3575.4	3870.7	3807.0	3176.1
30°	2833.8	2869.1	2867.4	2936.2	3010.0	3214.7	3682.8	3702.9	4137.5	3979.8	3238.2
32.5°	2958.0	2994.9	3006.7	3087.2	3145.9	3414.4	3934.5	3986.5	4394.2	4251.6	3400.9
35°	3112.4	3098.9	3152.6	3233.2	3359.0	3706.3	4241.5	4328.8	4671.0	4603.9	3568.7
37.5°	3305.3	3288.5	3340.5	3471.4	3642.5	4051.9	4525.1	4582.1	4872.4	4931.1	3879.1
40°	3441.2	3447.9	3605.6	3781.8	3963.0	4380.8	4704.6	4760.0	5013.3	5236.5	4114.0
42.5°	3667.7	3709.7	3899.3	4114.0	4303.6	4627.4	4850.6	4904.3	5078.8	5481.4	4431.1
45°	3996.6	3978.1	4187.8	4427.8	4637.5	4884.1	5023.4	5004.9	5117.3	5724.7	4630.8
47.5°	4419.4	4422.7	4562.0	4766.7	4984.8	5107.3	5216.3	5150.9	5197.9	5981.4	4897.6
50°	4708.0	4733.1	4845.5	5055.3	5164.3	5352.2	5491.5	5451.2	5436.1	6135.8	5065.3
52.5°	4781.8	4857.3	4917.7	5179.4	5434.5	5731.4	5909.3	5994.8	5726.4	6187.8	5278.4
55°	4224.7	4291.9	4504.9	4864.0	5536.8	6332.1	6577.1	6578.7	6105.6	6419.3	5427.7
57.5°	3377.4	3241.5	3372.4	3753.3	4681.1	6306.9	6902.5	6823.7	6295.2	6283.4	5298.6
60°	2335.5	2302.0	2310.4	2461.4	3239.9	5016.7	6150.9	6253.2	5796.9	5446.2	4194.5
62.5°	1850.6	1822.1	1785.2	1768.4	2011.7	3125.8	4338.8	4483.1	4053.6	3531.8	2486.5
65°	1449.6	1432.9	1437.9	1505.0	1503.3	1773.5	2372.4	2313.7	1852.3	1369.1	781.9
67.5°	978.2	1003.3	1023.5	1226.5	1330.5	1234.9	1146.0	1112.4	602.3	253.4	172.8
70°	550.3	553.7	575.5	766.8	1010.0	958.0	790.3	790.3	300.3	92.3	99.0
72.5°	300.3	290.3	270.1	330.5	449.7	456.4	352.3	307.0	88.9	60.4	55.4
75°	146.0	144.3	124.2	102.3	97.3	80.5	62.1	57.0	40.3	38.6	33.6
77.5°	30.2	28.5	15.1	15.1	16.8	18.5	23.5	23.5	28.5	28.5	23.5
80°	0.0	0.0	1.7	6.7	11.7	16.8	20.1	20.1	23.5	23.5	18.5
82.5°	0.0	0.0	1.7	5.0	10.1	15.1	18.5	20.1	23.5	25.2	20.1
85°	0.0	0.0	0.0	3.4	8.4	11.7	10.1	10.1	8.4	6.7	3.4
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°	3974.8	3974.8	3974.8	3974.8	3974.8	3974.8	3974.8	3974.8	3974.8	3974.8	3974.8
2.5°	3916.0	3912.7	3835.5	3791.9	3713.0	3644.2	3588.9	3548.6	3548.6	3523.4	3499.9
5°	3805.3	3776.8	3612.3	3506.6	3357.3	3246.6	3171.1	3112.4	3020.1	3045.2	2946.2
7.5°	3667.7	3595.6	3377.4	3216.4	3010.0	2852.3	2691.2	2548.6	2411.0	2348.9	2382.5
10°	3520.1	3394.2	3100.6	2845.6	2588.9	2300.3	2112.4	1884.2	1743.3	1734.9	1698.0
12.5°	3364.0	3221.4	2864.0	2511.7	2174.5	1827.1	1540.2	1327.2	1231.5	1125.8	1146.0
15°	3246.6	3035.2	2600.6	2176.1	1728.2	1377.5	1088.9	924.5	833.9	808.7	800.3
17.5°	3119.1	2892.6	2332.2	1818.8	1355.7	991.6	783.5	704.7	669.4	669.4	664.4
20°	2986.5	2731.5	2065.4	1486.5	1016.8	739.9	627.5	602.3	600.7	599.0	599.0
22.5°	2899.3	2546.9	1823.8	1181.2	766.8	592.3	545.3	535.2	541.9	562.1	562.1
25°	2807.0	2369.1	1557.0	911.1	593.9	508.4	481.5	488.2	505.0	523.5	516.8
27.5°	2713.0	2253.3	1305.3	714.8	486.6	444.6	434.6	449.7	468.1	484.9	479.9
30°	2691.2	2129.2	1067.1	541.9	417.8	387.6	394.3	407.7	426.2	432.9	439.6
32.5°	2724.8	2031.8	874.1	444.6	364.1	355.7	355.7	362.4	374.2	389.3	384.2
35°	2820.4	1976.5	691.3	385.9	333.9	325.5	323.8	330.5	337.2	342.3	337.2
37.5°	2966.4	1932.8	565.4	342.3	313.8	300.3	297.0	295.3	302.0	303.7	307.0
40°	3152.6	1956.3	479.9	315.4	293.6	278.5	268.5	268.5	268.5	273.5	275.2
42.5°	3354.0	1988.2	414.4	300.3	275.2	256.7	246.6	243.3	246.6	253.4	251.7
45°	3565.4	2050.3	372.5	276.8	258.4	234.9	221.5	218.1	226.5	239.9	238.3
47.5°	3763.3	2139.2	340.6	261.7	241.6	219.8	203.0	199.7	214.8	233.2	234.9
50°	3961.3	2293.6	328.9	250.0	229.9	204.7	189.6	186.2	203.0	226.5	231.5
52.5°	4189.5	2459.7	320.5	234.9	216.4	192.9	176.2	172.8	191.3	221.5	223.1
55°	4338.8	2600.6	313.8	208.0	191.3	174.5	161.1	159.4	179.5	206.4	213.1
57.5°	4164.3	2404.3	290.3	181.2	162.7	154.4	142.6	142.6	159.4	184.6	189.6
60°	3157.7	1582.2	206.4	146.0	137.6	132.5	127.5	127.5	140.9	159.4	161.1
62.5°	1849.0	852.3	132.5	117.4	117.4	112.4	104.0	104.0	117.4	127.5	129.2
65°	548.6	273.5	107.4	100.7	99.0	90.6	82.2	80.5	90.6	95.6	94.0
67.5°	157.7	125.8	88.9	83.9	82.2	68.8	63.8	62.1	63.8	60.4	58.7
70°	94.0	85.6	68.8	70.5	62.1	50.3	45.3	43.6	40.3	35.2	31.9
72.5°	52.0	52.0	50.3	53.7	43.6	33.6	28.5	23.5	18.5	15.1	13.4
75°	31.9	33.6	35.2	36.9	28.5	21.8	18.5	11.7	6.7	3.4	3.4
77.5°	21.8	23.5	25.2	26.8	23.5	20.1	15.1	8.4	1.7	0.0	0.0
80°	16.8	18.5	21.8	23.5	25.2	26.8	20.1	8.4	1.7	0.0	0.0
82.5°	18.5	20.1	25.2	23.5	23.5	23.5	18.5	8.4	1.7	0.0	0.0
85°	3.4	5.0	8.4	8.4	11.7	15.1	11.7	3.4	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)