

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: P527765

Luminaire Tested: **GALN-SA2D-740-U-SL3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P527765
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-740-U-SL3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 4000K, 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: 9097 lumens
Efficiency: N/A
Efficacy: 72.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

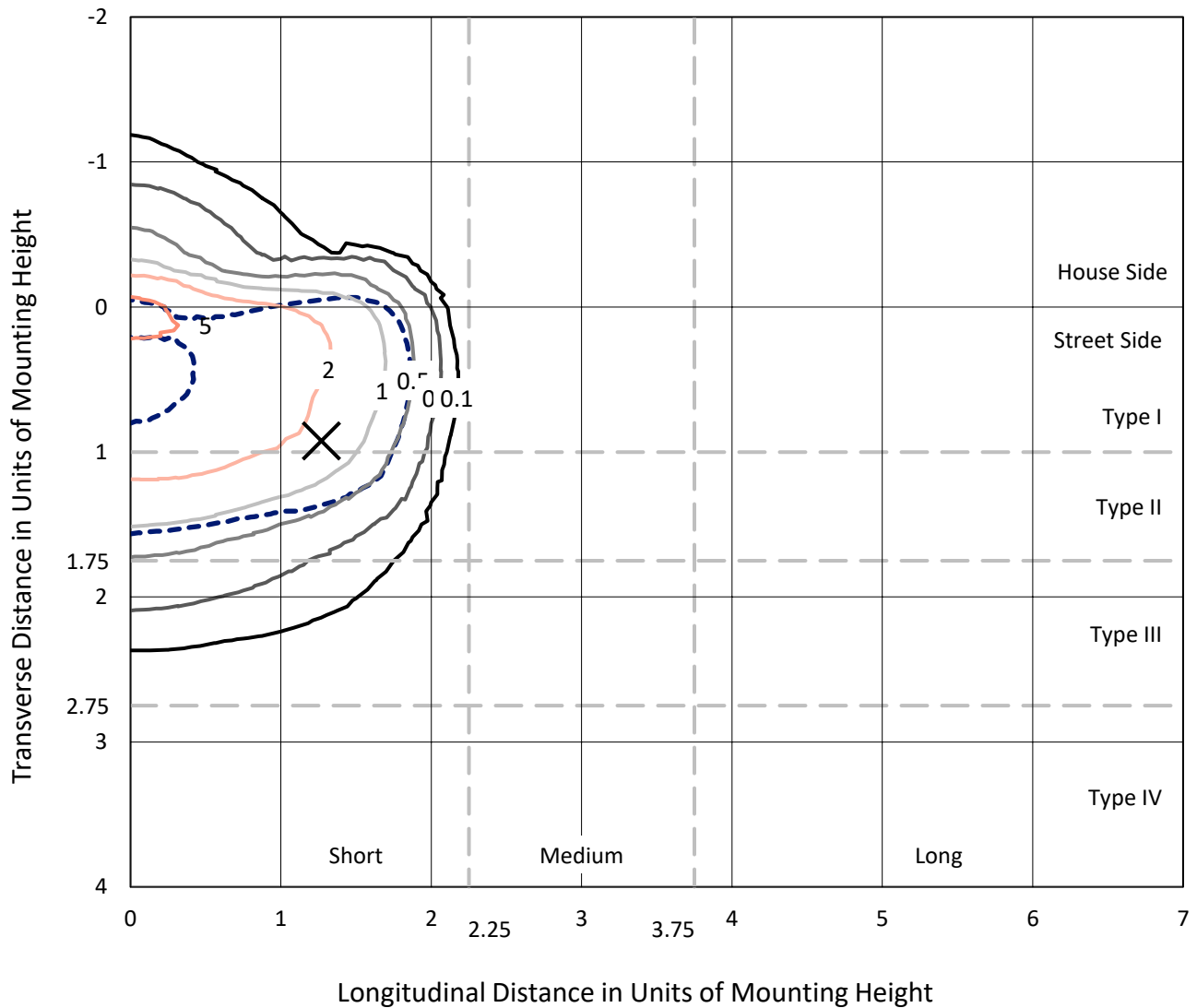
Input Watts (W): 125
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

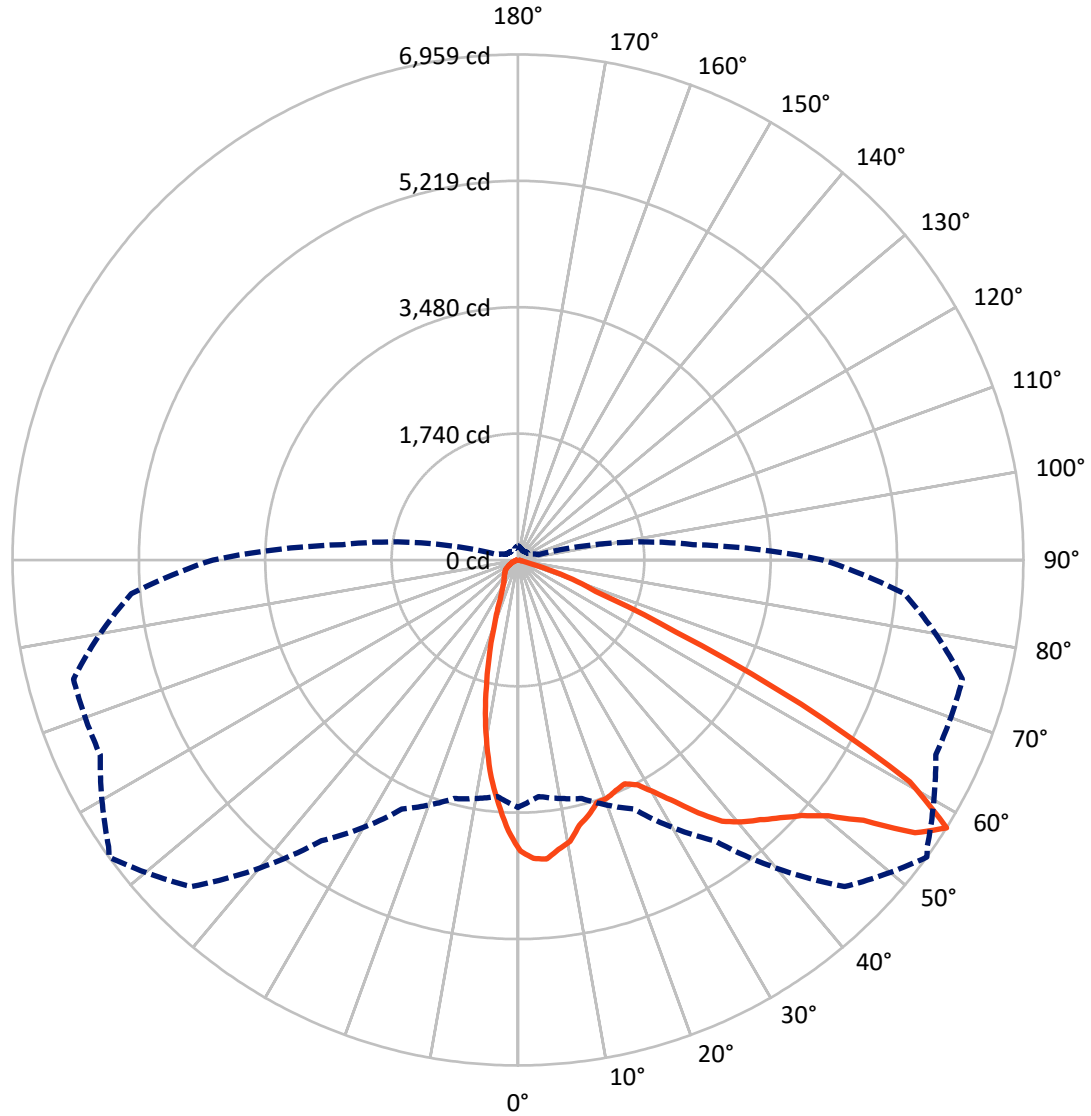
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 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	1285.6	0.0	1285.6
	% Fixture	14.1	0.0	14.1
Street Side	Lumens	7811.4	0.0	7811.4
	% Fixture	85.9	0.0	85.9
Total	Lumens	9097.0	0.0	9097.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	335.3	3.7
10°-20°	716.0	7.9
20°-30°	948.8	10.4
30°-40°	1378.8	15.2
40°-50°	2044.6	22.5
50°-60°	2556.7	28.1
60°-70°	1008.5	11.1
70°-80°	100.4	1.1
80°-90°	7.8	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°	9097.0	100.0
0°-180°	9097.0	100.0

Coefficient of Utilization



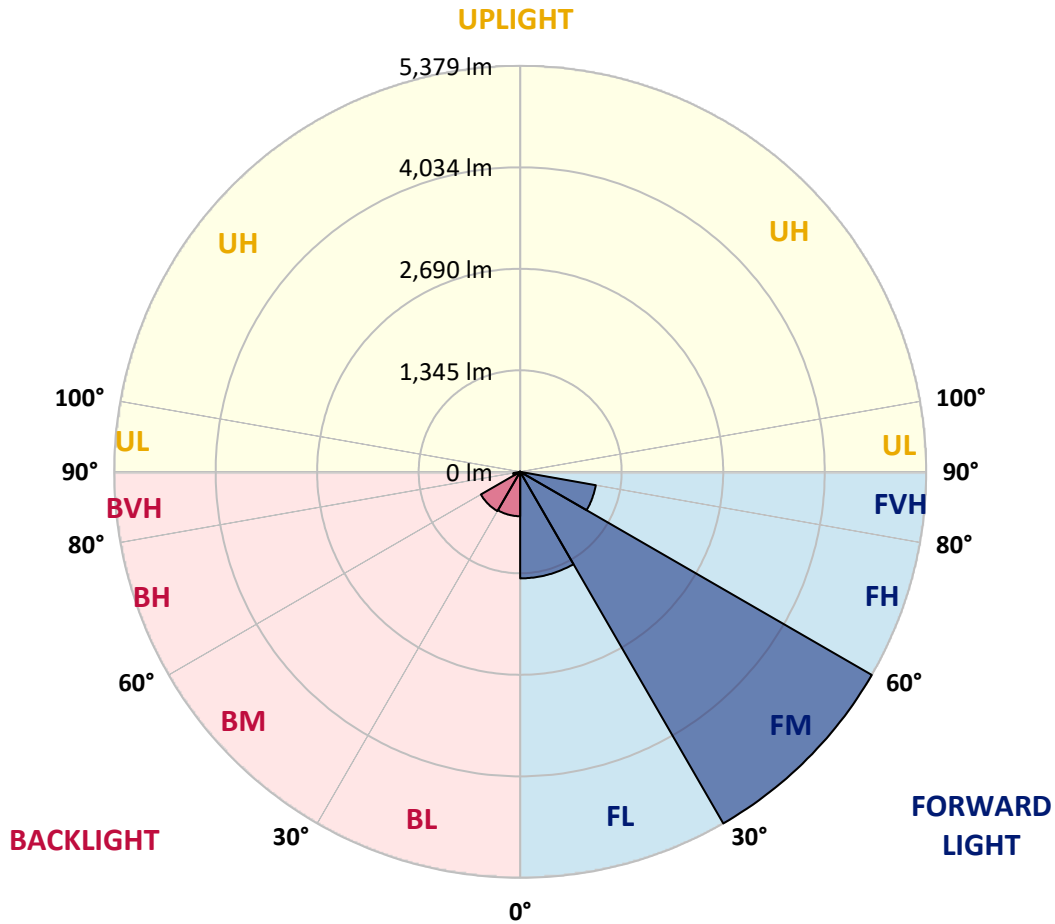
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1412.1	15.5			
FM (30°-60°)	5379.0	59.1			
FH (60°-80°)	1016.7	11.2			G1/1800
FVH (80°-90°)	3.5	0.0			G0/10
BL (0°-30°)	588.0	6.5	B2/1000		
BM (30°-60°)	601.2	6.6	B1/1000		
BH (60°-80°)	92.2	1.0	B0/110		G0/110
BVH (80°-90°)	4.3	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°	4007.4	4007.4	4007.4	4007.4	4007.4	4007.4	4007.4	4007.4	4007.4	4007.4	4007.4
2.5°	4240.8	4196.8	4200.2	4185.0	4164.7	4179.9	4113.9	4129.1	4127.5	4037.8	3978.6
5°	4134.2	4181.6	4132.5	4173.1	4134.2	4176.5	4135.9	4105.5	4056.4	3990.4	3880.5
7.5°	3953.2	3907.5	3921.1	3971.8	3980.3	4075.0	4024.3	4063.2	4042.9	3912.6	3762.1
10°	3589.5	3579.4	3647.0	3714.7	3797.6	3899.1	3938.0	3916.0	3900.8	3851.7	3650.4
12.5°	3310.4	3339.2	3337.5	3449.1	3589.5	3647.0	3748.5	3745.2	3829.7	3738.4	3545.5
15°	3044.8	3060.1	3131.1	3200.5	3356.1	3520.2	3645.4	3662.3	3763.8	3699.5	3464.4
17.5°	2882.5	2860.5	2916.3	2999.2	3158.2	3373.0	3511.7	3552.3	3691.0	3677.5	3371.3
20°	2721.8	2721.8	2767.4	2865.5	3011.0	3252.9	3499.9	3488.0	3691.0	3652.1	3271.5
22.5°	2667.6	2694.7	2706.5	2781.0	2953.5	3161.6	3449.1	3471.1	3719.8	3640.3	3227.5
25°	2742.0	2706.5	2709.9	2769.1	2931.5	3117.6	3411.9	3461.0	3772.2	3699.5	3192.0
27.5°	2753.9	2789.4	2799.6	2840.2	2948.4	3131.1	3505.0	3604.8	3902.5	3838.2	3202.2
30°	2857.1	2892.6	2890.9	2960.3	3034.7	3241.1	3713.0	3733.3	4171.4	4012.4	3264.7
32.5°	2982.3	3019.5	3031.3	3112.5	3171.7	3442.4	3966.8	4019.2	4430.2	4286.5	3428.8
35°	3137.9	3124.3	3178.5	3259.7	3386.5	3736.7	4276.3	4364.3	4709.4	4641.7	3598.0
37.5°	3332.4	3315.5	3367.9	3499.9	3672.4	4085.2	4562.2	4619.7	4912.3	4971.6	3910.9
40°	3469.4	3476.2	3635.2	3812.8	3995.5	4416.7	4743.2	4799.0	5054.4	5279.4	4147.8
42.5°	3697.8	3740.1	3931.2	4147.8	4338.9	4665.4	4890.4	4944.5	5120.4	5526.4	4467.5
45°	4029.3	4010.7	4222.2	4464.1	4675.5	4924.2	5064.6	5046.0	5159.3	5771.7	4668.8
47.5°	4455.6	4459.0	4599.4	4805.8	5025.7	5149.2	5259.1	5193.1	5240.5	6030.5	4937.7
50°	4746.6	4771.9	4885.3	5096.7	5206.7	5396.1	5536.5	5495.9	5480.7	6186.1	5106.9
52.5°	4821.0	4897.1	4958.0	5221.9	5479.0	5778.4	5957.7	6044.0	5773.4	6238.5	5321.7
55°	4259.4	4327.1	4541.9	4903.9	5582.2	6384.0	6631.0	6632.7	6155.7	6472.0	5472.3
57.5°	3405.1	3268.1	3400.1	3784.1	4719.5	6358.6	6959.2	6879.7	6346.8	6335.0	5342.0
60°	2354.7	2320.8	2329.3	2481.5	3266.4	5057.8	6201.3	6304.5	5844.4	5490.9	4228.9
62.5°	1865.8	1837.1	1799.8	1782.9	2028.2	3151.4	4374.4	4519.9	4086.9	3560.8	2506.9
65°	1461.5	1444.6	1449.7	1517.3	1515.7	1788.0	2391.9	2332.7	1867.5	1380.3	788.3
67.5°	986.2	1011.6	1031.9	1236.5	1341.4	1245.0	1155.3	1121.5	607.3	255.4	174.2
70°	554.8	558.2	580.2	773.1	1018.3	965.9	796.7	796.7	302.8	93.0	99.8
72.5°	302.8	292.6	272.3	333.2	453.3	460.1	355.2	309.6	89.7	60.9	55.8
75°	147.2	145.5	125.2	103.2	98.1	81.2	62.6	57.5	40.6	38.9	33.8
77.5°	30.4	28.8	15.2	15.2	16.9	18.6	23.7	23.7	28.8	28.8	23.7
80°	0.0	0.0	1.7	6.8	11.8	16.9	20.3	20.3	23.7	23.7	18.6
82.5°	0.0	0.0	1.7	5.1	10.1	15.2	18.6	20.3	23.7	25.4	20.3
85°	0.0	0.0	0.0	3.4	8.5	11.8	10.1	10.1	8.5	6.8	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°	4007.4	4007.4	4007.4	4007.4	4007.4	4007.4	4007.4	4007.4	4007.4	4007.4	4007.4
2.5°	3948.1	3944.8	3866.9	3823.0	3743.5	3674.1	3618.3	3577.7	3577.7	3552.3	3528.6
5°	3836.5	3807.7	3642.0	3535.4	3384.8	3273.2	3197.1	3137.9	3044.8	3070.2	2970.4
7.5°	3697.8	3625.1	3405.1	3242.8	3034.7	2875.7	2713.3	2569.5	2430.8	2368.2	2402.0
10°	3548.9	3422.1	3126.0	2868.9	2610.1	2319.2	2129.7	1899.6	1757.6	1749.1	1711.9
12.5°	3391.6	3247.8	2887.5	2532.3	2192.3	1842.1	1552.9	1338.0	1241.6	1135.0	1155.3
15°	3273.2	3060.1	2621.9	2194.0	1742.3	1388.8	1097.8	932.1	840.7	815.3	806.9
17.5°	3144.6	2916.3	2351.3	1833.7	1366.8	999.7	790.0	710.5	674.9	674.9	669.9
20°	3011.0	2753.9	2082.3	1498.7	1025.1	746.0	632.7	607.3	605.6	603.9	603.9
22.5°	2923.0	2567.8	1838.7	1190.9	773.1	597.1	549.8	539.6	546.4	566.7	566.7
25°	2830.0	2388.5	1569.8	918.5	598.8	512.5	485.5	492.2	509.2	527.8	521.0
27.5°	2735.3	2271.8	1316.0	720.6	490.6	448.3	438.1	453.3	472.0	488.9	483.8
30°	2713.3	2146.6	1075.8	546.4	421.2	390.8	397.5	411.1	429.7	436.4	443.2
32.5°	2747.1	2048.5	881.3	448.3	367.1	358.6	358.6	365.4	377.2	392.4	387.4
35°	2843.5	1992.7	696.9	389.1	336.6	328.2	326.5	333.2	340.0	345.1	340.0
37.5°	2990.7	1948.7	570.1	345.1	316.3	302.8	299.4	297.7	304.5	306.2	309.6
40°	3178.5	1972.4	483.8	318.0	296.0	280.8	270.7	270.7	270.7	275.7	277.4
42.5°	3381.5	2004.5	417.8	302.8	277.4	258.8	248.7	245.3	248.7	255.4	253.7
45°	3594.6	2067.1	375.5	279.1	260.5	236.8	223.3	219.9	228.4	241.9	240.2
47.5°	3794.2	2156.8	343.4	263.9	243.6	221.6	204.7	201.3	216.5	235.1	236.8
50°	3993.8	2312.4	331.5	252.0	231.7	206.4	191.1	187.8	204.7	228.4	233.4
52.5°	4223.9	2479.9	323.1	236.8	218.2	194.5	177.6	174.2	192.8	223.3	225.0
55°	4374.4	2621.9	316.3	209.8	192.8	175.9	162.4	160.7	181.0	208.1	214.8
57.5°	4198.5	2424.0	292.6	182.7	164.1	155.6	143.8	143.8	160.7	186.1	191.1
60°	3183.6	1595.2	208.1	147.2	138.7	133.6	128.6	128.6	142.1	160.7	162.4
62.5°	1864.1	859.3	133.6	118.4	118.4	113.3	104.9	104.9	118.4	128.6	130.3
65°	553.1	275.7	108.3	101.5	99.8	91.3	82.9	81.2	91.3	96.4	94.7
67.5°	159.0	126.9	89.7	84.6	82.9	69.4	64.3	62.6	64.3	60.9	59.2
70°	94.7	86.3	69.4	71.0	62.6	50.7	45.7	44.0	40.6	35.5	32.1
72.5°	52.4	52.4	50.7	54.1	44.0	33.8	28.8	23.7	18.6	15.2	13.5
75°	32.1	33.8	35.5	37.2	28.8	22.0	18.6	11.8	6.8	3.4	3.4
77.5°	22.0	23.7	25.4	27.1	23.7	20.3	15.2	8.5	1.7	0.0	0.0
80°	16.9	18.6	22.0	23.7	25.4	27.1	20.3	8.5	1.7	0.0	0.0
82.5°	18.6	20.3	25.4	23.7	23.7	23.7	18.6	8.5	1.7	0.0	0.0
85°	3.4	5.1	8.5	8.5	11.8	15.2	11.8	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)