

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: P527999

Luminaire Tested: **GALN-SA3A-740-U-SL3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P527999
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-SA3A-740-U-SL3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 4000K, 615mA 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: 7984 lumens
Efficiency: N/A
Efficacy: 85.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

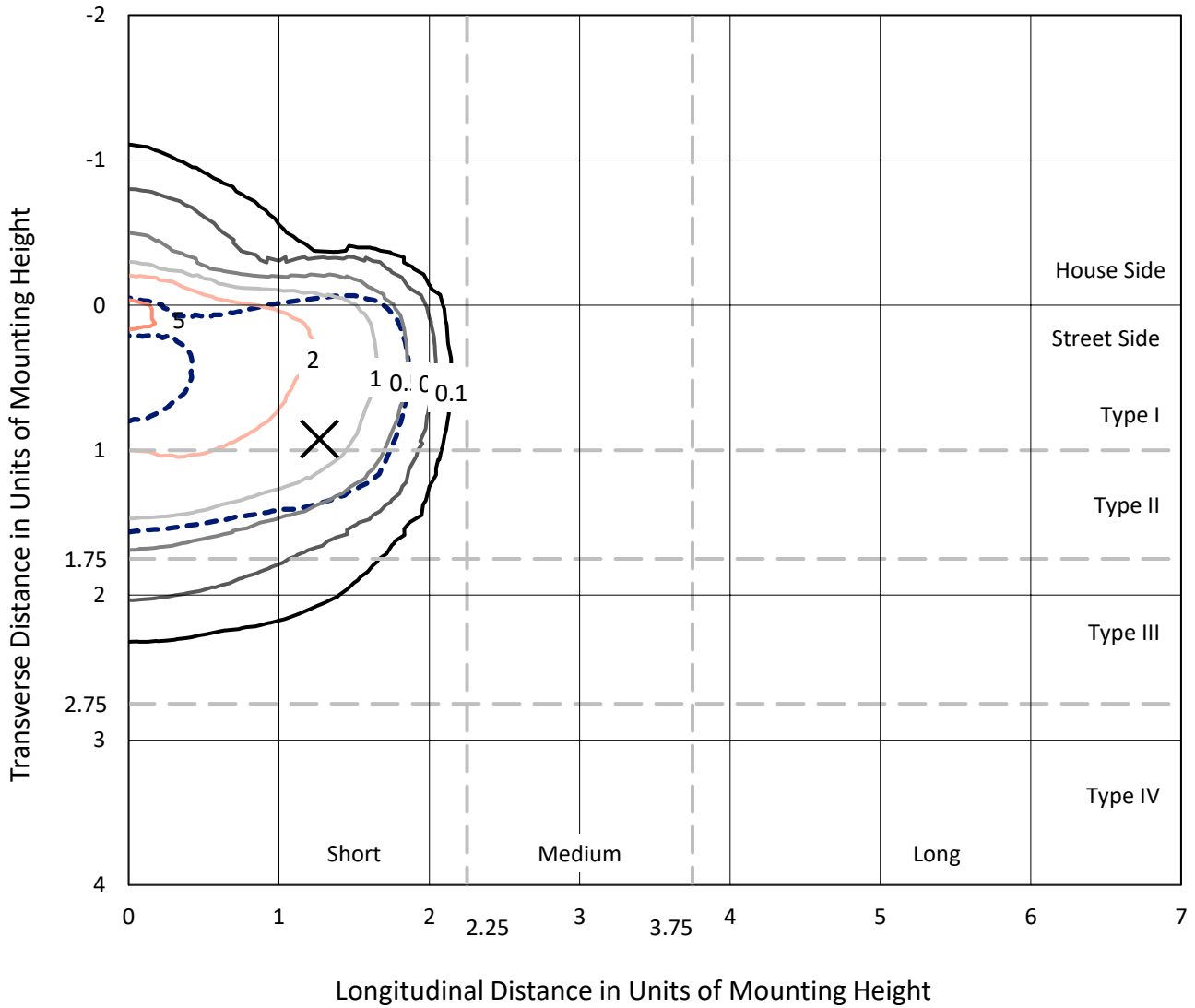
Input Watts (W): 93
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

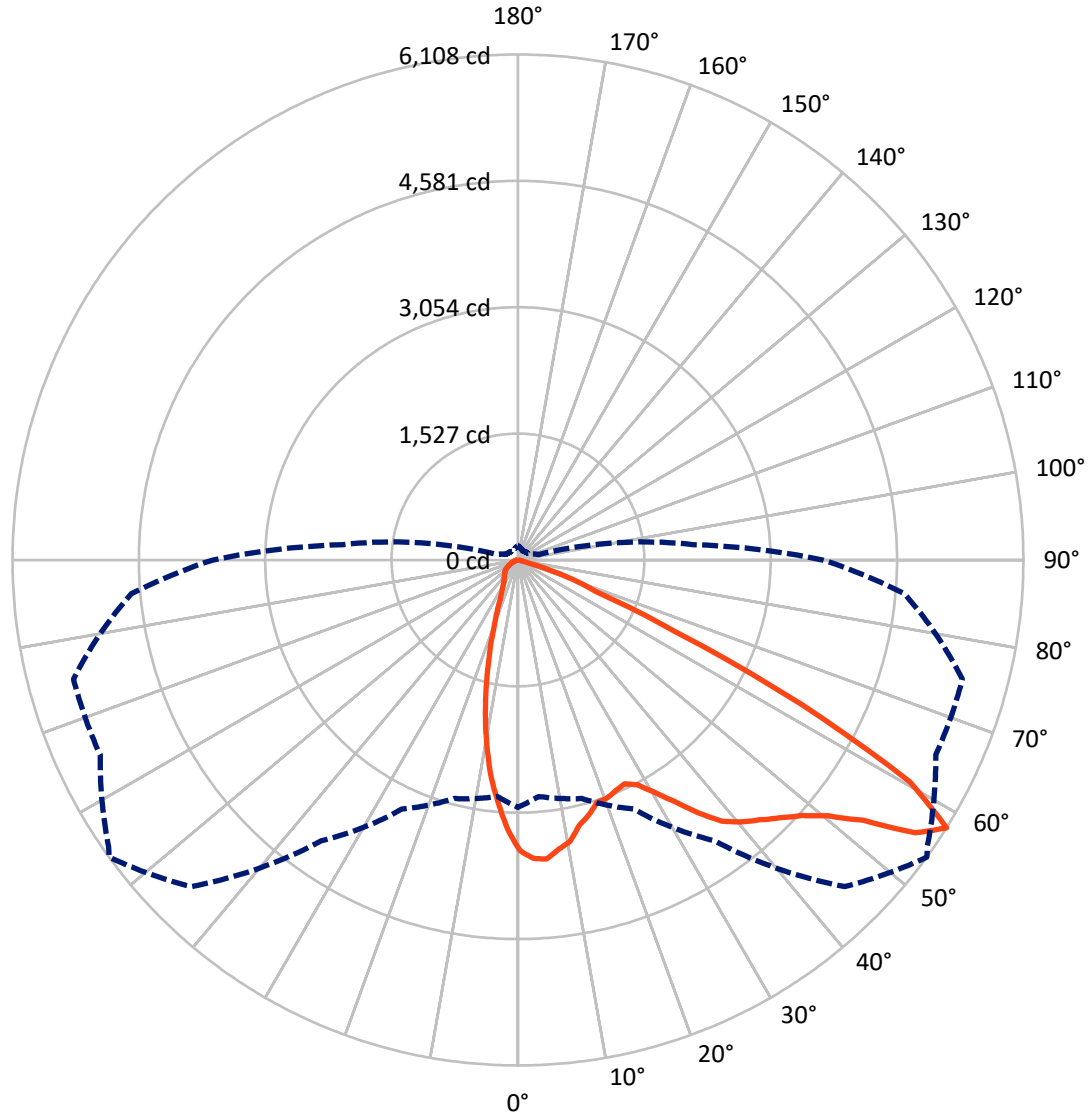
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.6 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	1128.3	0.0	1128.3
	% Fixture	14.1	0.0	14.1
Street Side	Lumens	6855.7	0.0	6855.7
	% Fixture	85.9	0.0	85.9
Total	Lumens	7984.0	0.0	7984.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	294.3	3.7
10°-20°	628.4	7.9
20°-30°	832.7	10.4
30°-40°	1210.1	15.2
40°-50°	1794.5	22.5
50°-60°	2243.9	28.1
60°-70°	885.1	11.1
70°-80°	88.1	1.1
80°-90°	6.9	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°	7984.0	100.0
0°-180°	7984.0	100.0

Coefficient of Utilization



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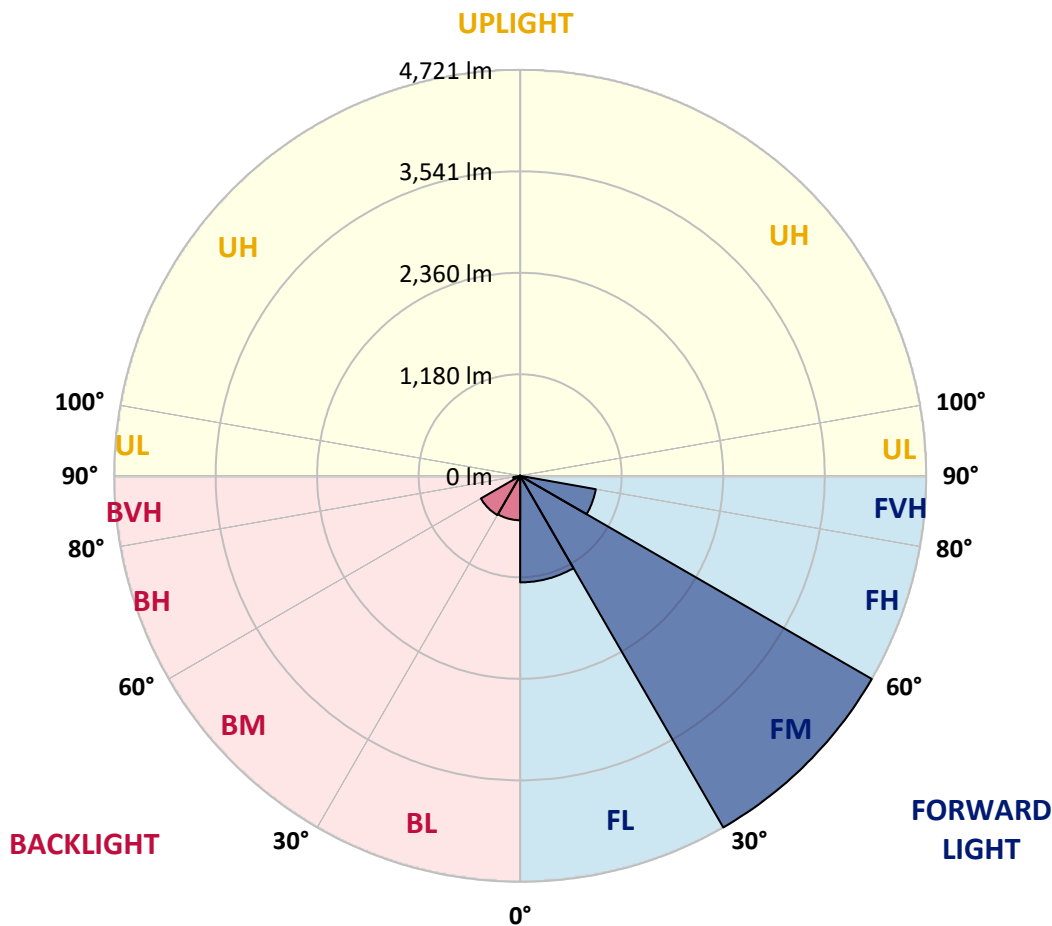
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1239.3	15.5			
FM (30°-60°)	4720.9	59.1			
FH (60°-80°)	892.3	11.2			G1/1800
FVH (80°-90°)	3.1	0.0			G0/10
BL (0°-30°)	516.0	6.5	B2/1000		
BM (30°-60°)	527.6	6.6	B1/1000		
BH (60°-80°)	80.9	1.0	B0/110		G0/110
BVH (80°-90°)	3.7	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°	3517.1	3517.1	3517.1	3517.1	3517.1	3517.1	3517.1	3517.1	3517.1	3517.1	3517.1
2.5°	3721.9	3683.3	3686.3	3672.9	3655.1	3668.5	3610.6	3624.0	3622.5	3543.8	3491.8
5°	3628.4	3670.0	3626.9	3662.6	3628.4	3665.5	3629.9	3603.2	3560.1	3502.2	3405.7
7.5°	3469.6	3429.5	3441.3	3485.9	3493.3	3576.4	3531.9	3566.1	3548.2	3433.9	3301.8
10°	3150.4	3141.5	3200.8	3260.2	3333.0	3422.0	3456.2	3436.9	3423.5	3380.5	3203.8
12.5°	2905.4	2930.6	2929.2	3027.1	3150.4	3200.8	3289.9	3286.9	3361.2	3281.0	3111.8
15°	2672.3	2685.7	2748.0	2808.9	2945.5	3089.5	3199.4	3214.2	3303.3	3246.9	3040.5
17.5°	2529.8	2510.5	2559.5	2632.2	2771.8	2960.3	3082.1	3117.7	3239.4	3227.6	2958.8
20°	2388.7	2388.7	2428.8	2514.9	2642.6	2854.9	3071.7	3061.3	3239.4	3205.3	2871.3
22.5°	2341.2	2365.0	2375.4	2440.7	2592.1	2774.8	3027.1	3046.4	3264.7	3194.9	2832.7
25°	2406.6	2375.4	2378.4	2430.3	2572.8	2736.2	2994.5	3037.5	3310.7	3246.9	2801.5
27.5°	2417.0	2448.1	2457.0	2492.7	2587.7	2748.0	3076.1	3163.7	3425.0	3368.6	2810.4
30°	2507.5	2538.7	2537.2	2598.1	2663.4	2844.5	3258.7	3276.6	3661.1	3521.5	2865.3
32.5°	2617.4	2650.0	2660.4	2731.7	2783.7	3021.2	3481.4	3527.5	3888.2	3762.0	3009.3
35°	2754.0	2742.1	2789.6	2860.9	2972.2	3279.5	3753.1	3830.3	4133.2	4073.8	3157.8
37.5°	2924.7	2909.9	2955.9	3071.7	3223.1	3585.4	4004.0	4054.5	4311.3	4363.3	3432.4
40°	3045.0	3050.9	3190.4	3346.3	3506.7	3876.3	4162.9	4211.9	4436.0	4633.5	3640.3
42.5°	3245.4	3282.5	3450.3	3640.3	3808.0	4094.6	4292.0	4339.5	4493.9	4850.2	3920.9
45°	3536.4	3520.0	3705.6	3917.9	4103.5	4321.7	4444.9	4428.6	4528.1	5065.5	4097.5
47.5°	3910.5	3913.5	4036.7	4217.8	4410.8	4519.2	4615.7	4557.8	4599.3	5292.7	4333.6
50°	4165.8	4188.1	4287.6	4473.2	4569.7	4735.9	4859.2	4823.5	4810.2	5429.2	4482.1
52.5°	4231.2	4298.0	4351.4	4583.0	4808.7	5071.5	5228.8	5304.5	5067.0	5475.3	4670.6
55°	3738.3	3797.7	3986.2	4303.9	4899.2	5602.9	5819.7	5821.2	5402.5	5680.1	4802.7
57.5°	2988.5	2868.3	2984.1	3321.1	4142.1	5580.7	6107.7	6037.9	5570.3	5559.9	4688.4
60°	2066.6	2036.9	2044.3	2177.9	2866.8	4439.0	5442.6	5533.2	5129.4	4819.1	3711.5
62.5°	1637.5	1612.3	1579.6	1564.8	1780.1	2765.8	3839.2	3966.9	3586.8	3125.1	2200.2
65°	1282.7	1267.9	1272.3	1331.7	1330.2	1569.2	2099.2	2047.3	1639.0	1211.4	691.8
67.5°	865.5	887.8	905.6	1085.3	1177.3	1092.7	1014.0	984.3	533.0	224.2	152.9
70°	487.0	489.9	509.2	678.5	893.7	847.7	699.3	699.3	265.7	81.7	87.6
72.5°	265.7	256.8	239.0	292.5	397.9	403.8	311.8	271.7	78.7	53.4	49.0
75°	129.2	127.7	109.9	90.6	86.1	71.3	54.9	50.5	35.6	34.1	29.7
77.5°	26.7	25.2	13.4	13.4	14.8	16.3	20.8	20.8	25.2	25.2	20.8
80°	0.0	0.0	1.5	5.9	10.4	14.8	17.8	17.8	20.8	20.8	16.3
82.5°	0.0	0.0	1.5	4.5	8.9	13.4	16.3	17.8	20.8	22.3	17.8
85°	0.0	0.0	0.0	3.0	7.4	10.4	8.9	8.9	7.4	5.9	3.0
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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3517.1	3517.1	3517.1	3517.1	3517.1	3517.1	3517.1	3517.1	3517.1	3517.1	3517.1
2.5°	3465.1	3462.1	3393.8	3355.2	3285.5	3224.6	3175.6	3140.0	3140.0	3117.7	3096.9
5°	3367.1	3341.9	3196.4	3102.9	2970.7	2872.7	2805.9	2754.0	2672.3	2694.6	2607.0
7.5°	3245.4	3181.5	2988.5	2846.0	2663.4	2523.9	2381.3	2255.1	2133.4	2078.5	2108.2
10°	3114.7	3003.4	2743.6	2517.9	2290.8	2035.4	1869.1	1667.2	1542.5	1535.1	1502.4
12.5°	2976.7	2850.5	2534.2	2222.5	1924.1	1616.7	1362.9	1174.3	1089.7	996.2	1014.0
15°	2872.7	2685.7	2301.2	1925.5	1529.2	1218.9	963.5	818.0	737.9	715.6	708.2
17.5°	2759.9	2559.5	2063.6	1609.3	1199.6	877.4	693.3	623.5	592.4	592.4	587.9
20°	2642.6	2417.0	1827.6	1315.4	899.7	654.7	555.2	533.0	531.5	530.0	530.0
22.5°	2565.4	2253.6	1613.8	1045.2	678.5	524.1	482.5	473.6	479.5	497.3	497.3
25°	2483.8	2096.3	1377.7	806.1	525.6	449.8	426.1	432.0	446.9	463.2	457.3
27.5°	2400.6	1993.8	1155.0	632.4	430.5	393.4	384.5	397.9	414.2	429.1	424.6
30°	2381.3	1884.0	944.2	479.5	369.7	342.9	348.9	360.8	377.1	383.0	389.0
32.5°	2411.0	1797.9	773.5	393.4	322.2	314.7	314.7	320.7	331.1	344.4	340.0
35°	2495.6	1748.9	611.7	341.5	295.4	288.0	286.5	292.5	298.4	302.9	298.4
37.5°	2624.8	1710.3	500.3	302.9	277.6	265.7	262.8	261.3	267.2	268.7	271.7
40°	2789.6	1731.1	424.6	279.1	259.8	246.4	237.5	237.5	237.5	242.0	243.5
42.5°	2967.8	1759.3	366.7	265.7	243.5	227.1	218.2	215.3	218.2	224.2	222.7
45°	3154.8	1814.2	329.6	245.0	228.6	207.8	196.0	193.0	200.4	212.3	210.8
47.5°	3330.0	1892.9	301.4	231.6	213.8	194.5	179.6	176.7	190.0	206.4	207.8
50°	3505.2	2029.5	291.0	221.2	203.4	181.1	167.8	164.8	179.6	200.4	204.9
52.5°	3707.1	2176.4	283.6	207.8	191.5	170.7	155.9	152.9	169.2	196.0	197.5
55°	3839.2	2301.2	277.6	184.1	169.2	154.4	142.5	141.0	158.9	182.6	188.5
57.5°	3684.8	2127.5	256.8	160.3	144.0	136.6	126.2	126.2	141.0	163.3	167.8
60°	2794.1	1400.0	182.6	129.2	121.7	117.3	112.8	112.8	124.7	141.0	142.5
62.5°	1636.0	754.2	117.3	103.9	103.9	99.5	92.0	92.0	103.9	112.8	114.3
65°	485.5	242.0	95.0	89.1	87.6	80.2	72.7	71.3	80.2	84.6	83.1
67.5°	139.6	111.3	78.7	74.2	72.7	60.9	56.4	54.9	56.4	53.4	52.0
70°	83.1	75.7	60.9	62.4	54.9	44.5	40.1	38.6	35.6	31.2	28.2
72.5°	46.0	46.0	44.5	47.5	38.6	29.7	25.2	20.8	16.3	13.4	11.9
75°	28.2	29.7	31.2	32.7	25.2	19.3	16.3	10.4	5.9	3.0	3.0
77.5°	19.3	20.8	22.3	23.8	20.8	17.8	13.4	7.4	1.5	0.0	0.0
80°	14.8	16.3	19.3	20.8	22.3	23.8	17.8	7.4	1.5	0.0	0.0
82.5°	16.3	17.8	22.3	20.8	20.8	20.8	16.3	7.4	1.5	0.0	0.0
85°	3.0	4.5	7.4	7.4	10.4	13.4	10.4	3.0	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)