

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: P528909

Luminaire Tested: **GALN-SA4A-735-U-SL3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P528909
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-SA4A-735-U-SL3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3500K, 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: 9856 lumens
Efficiency: N/A
Efficacy: 81.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

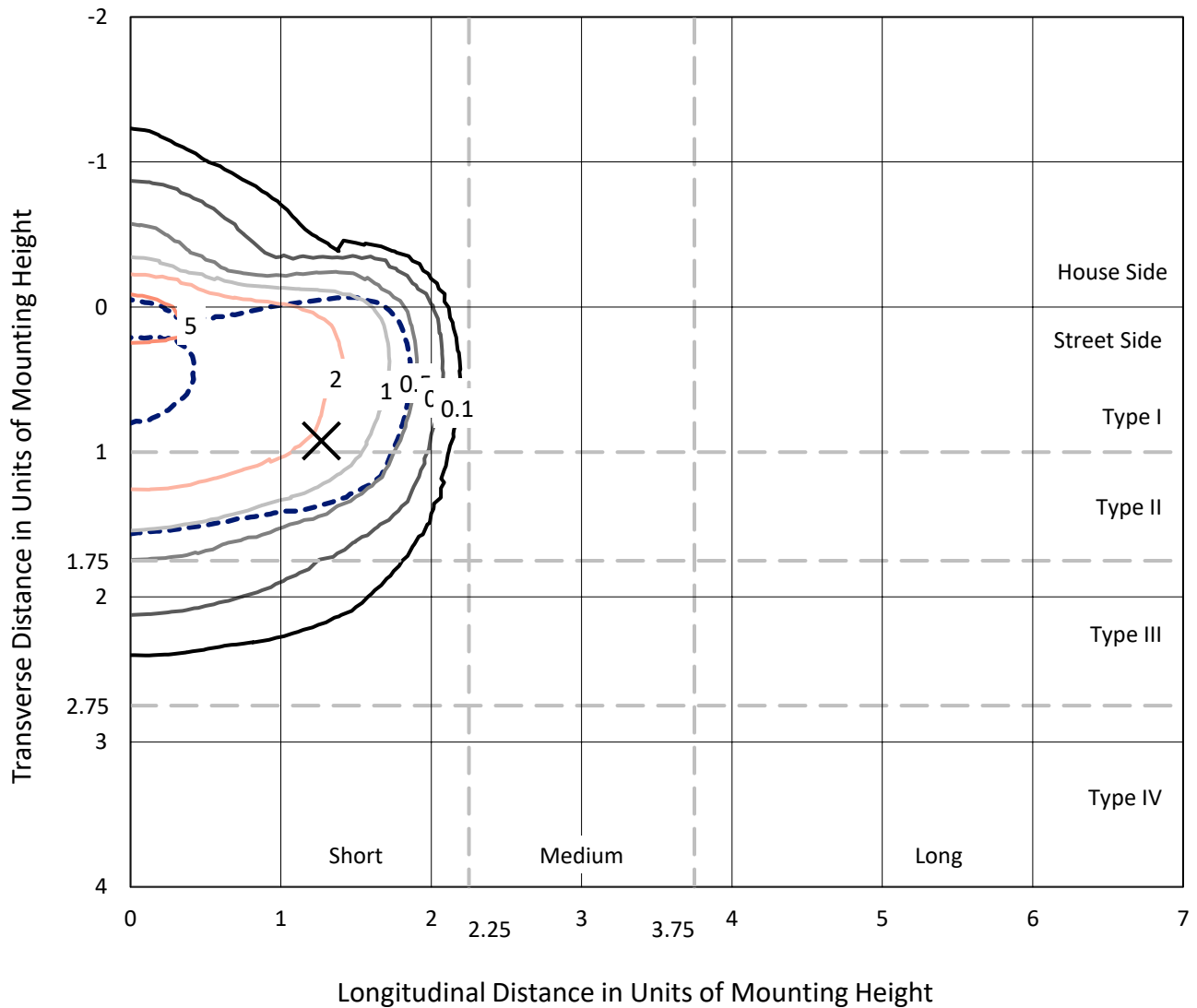
Input Watts (W): 121
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

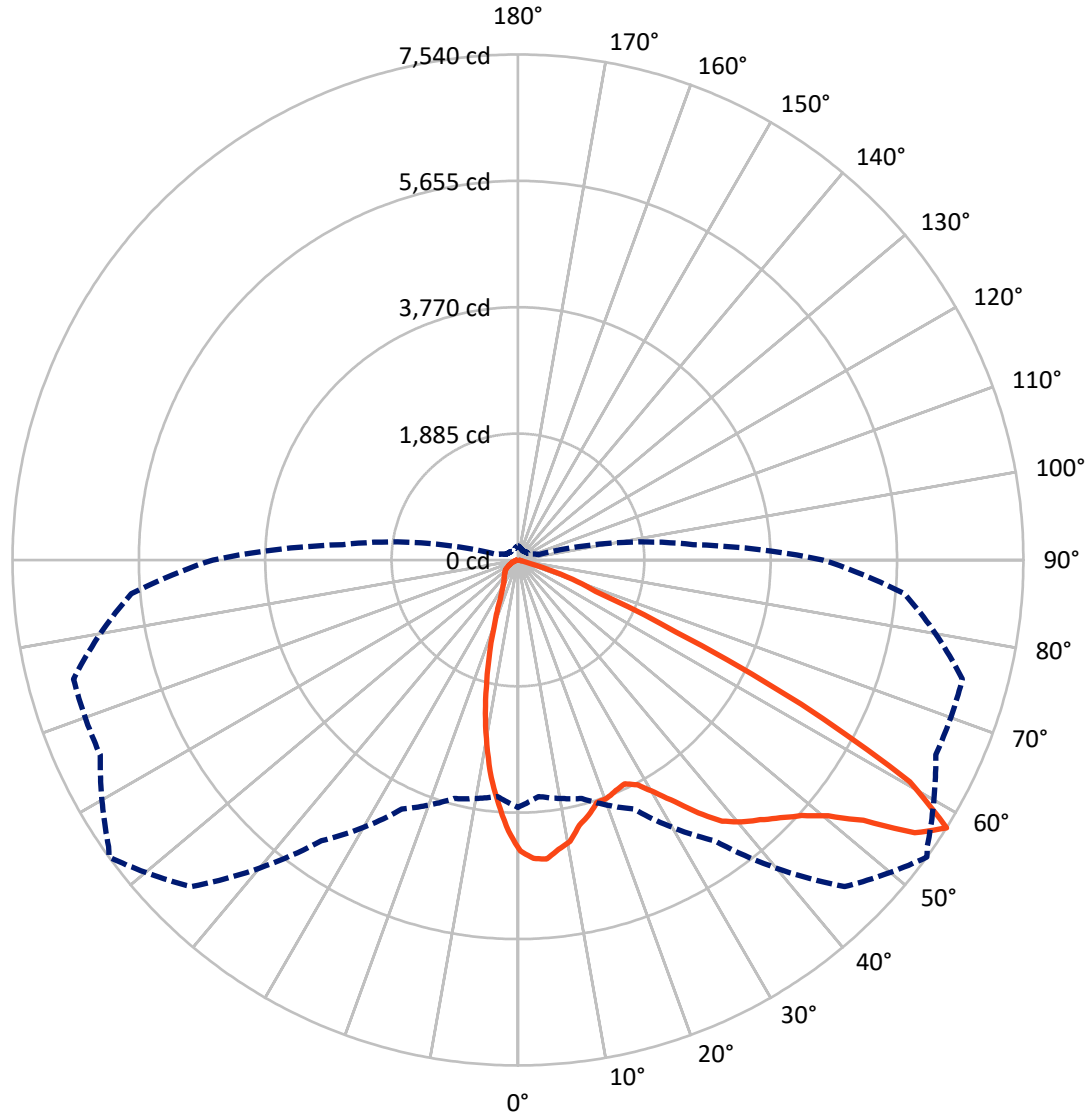
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.9 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	1392.8	0.0	1392.8
	% Fixture	14.1	0.0	14.1
Street Side	Lumens	8463.2	0.0	8463.2
	% Fixture	85.9	0.0	85.9
Total	Lumens	9856.0	0.0	9856.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	363.3	3.7
10°-20°	775.7	7.9
20°-30°	1027.9	10.4
30°-40°	1493.9	15.2
40°-50°	2215.2	22.5
50°-60°	2770.0	28.1
60°-70°	1092.7	11.1
70°-80°	108.8	1.1
80°-90°	8.5	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°	9856.0	100.0
0°-180°	9856.0	100.0

Coefficient of Utilization

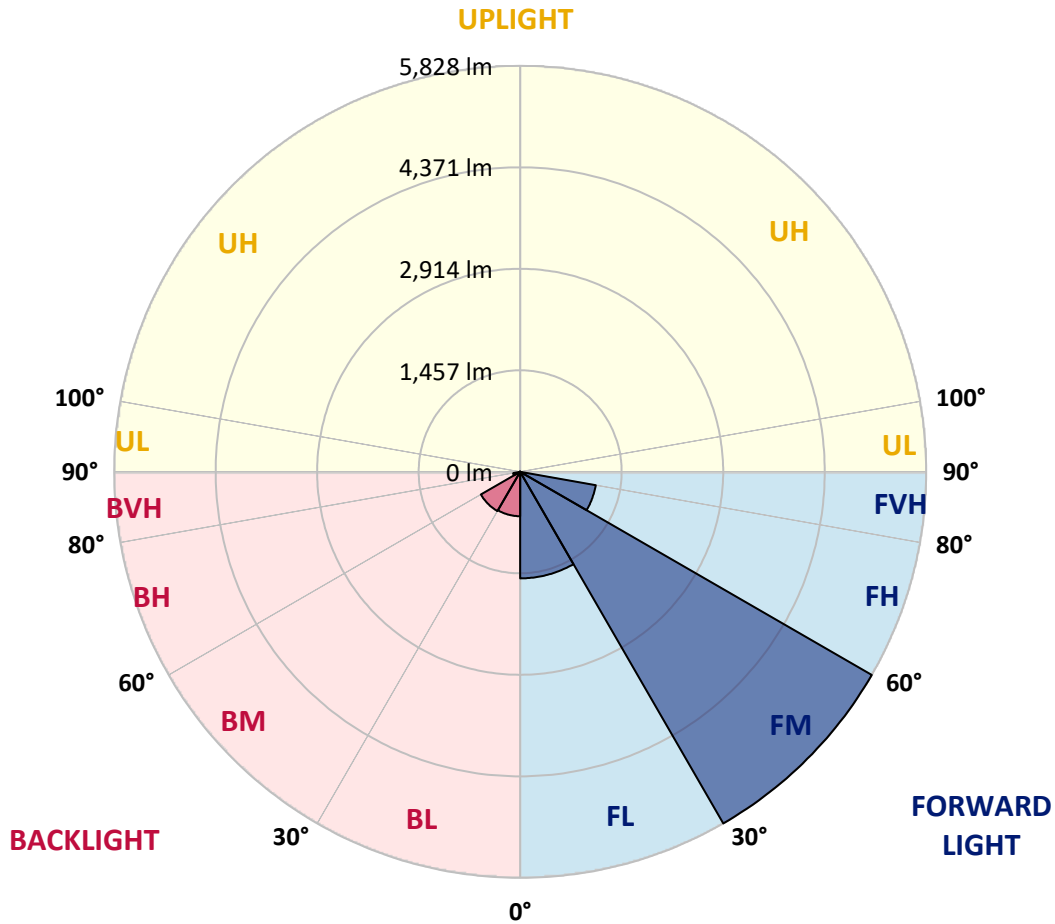


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1529.9	15.5			
FM (30°-60°)	5827.8	59.1			
FH (60°-80°)	1101.6	11.2			G1/1800
FVH (80°-90°)	3.8	0.0			G0/10
BL (0°-30°)	637.0	6.5	B2/1000		
BM (30°-60°)	651.3	6.6	B1/1000		
BH (60°-80°)	99.9	1.0	B0/110		G0/110
BVH (80°-90°)	4.6	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°	4341.7	4341.7	4341.7	4341.7	4341.7	4341.7	4341.7	4341.7	4341.7	4341.7	4341.7
2.5°	4594.6	4547.0	4550.6	4534.1	4512.1	4528.6	4457.2	4473.7	4471.8	4374.7	4310.5
5°	4479.2	4530.5	4477.3	4521.3	4479.2	4525.0	4481.0	4448.0	4394.8	4323.4	4204.2
7.5°	4283.1	4233.6	4248.2	4303.2	4312.4	4415.0	4360.0	4402.2	4380.2	4239.1	4076.0
10°	3889.0	3878.0	3951.3	4024.6	4114.4	4224.4	4266.6	4242.7	4226.2	4173.1	3955.0
12.5°	3586.6	3617.8	3615.9	3736.9	3889.0	3951.3	4061.3	4057.6	4149.3	4050.3	3841.4
15°	3298.9	3315.4	3392.4	3467.5	3636.1	3813.9	3949.5	3967.8	4077.8	4008.1	3753.4
17.5°	3122.9	3099.1	3159.6	3249.4	3421.7	3654.4	3804.7	3848.7	3999.0	3984.3	3652.6
20°	2948.8	2948.8	2998.3	3104.6	3262.2	3524.3	3791.9	3779.1	3999.0	3956.8	3544.5
22.5°	2890.2	2919.5	2932.3	3013.0	3199.9	3425.3	3736.9	3760.7	4030.1	3944.0	3496.8
25°	2970.8	2932.3	2936.0	3000.2	3176.1	3377.7	3696.6	3749.7	4087.0	4008.1	3458.3
27.5°	2983.7	3022.1	3033.1	3077.1	3194.4	3392.4	3797.4	3905.5	4228.1	4158.4	3469.3
30°	3095.5	3133.9	3132.1	3207.3	3287.9	3511.5	4022.8	4044.8	4519.5	4347.2	3537.1
32.5°	3231.1	3271.4	3284.2	3372.2	3436.3	3729.6	4297.7	4354.5	4799.9	4644.1	3714.9
35°	3399.7	3385.0	3443.7	3531.6	3669.1	4048.5	4633.1	4728.4	5102.3	5029.0	3898.2
37.5°	3610.4	3592.1	3648.9	3791.9	3978.8	4426.0	4942.8	5005.1	5322.2	5386.3	4237.2
40°	3758.9	3766.2	3938.5	4130.9	4328.9	4785.2	5138.9	5199.4	5476.2	5719.9	4493.8
42.5°	4006.3	4052.1	4259.2	4493.8	4700.9	5054.6	5298.4	5357.0	5547.6	5987.5	4840.2
45°	4365.5	4345.4	4574.5	4836.5	5065.6	5335.0	5487.1	5467.0	5589.8	6253.2	5058.3
47.5°	4827.4	4831.0	4983.2	5206.7	5445.0	5578.8	5697.9	5626.4	5677.7	6533.6	5349.7
50°	5142.6	5170.1	5292.9	5522.0	5641.1	5846.4	5998.5	5954.5	5938.0	6702.2	5533.0
52.5°	5223.2	5305.7	5371.7	5657.6	5936.2	6260.6	6454.8	6548.3	6255.1	6759.1	5765.7
55°	4614.8	4688.1	4920.8	5313.0	6048.0	6916.7	7184.2	7186.1	6669.2	7012.0	5928.8
57.5°	3689.3	3540.8	3683.8	4099.8	5113.3	6889.2	7539.8	7453.6	6876.3	6863.5	5787.7
60°	2551.1	2514.5	2523.6	2688.6	3539.0	5479.8	6718.7	6830.5	6332.0	5949.0	4581.8
62.5°	2021.5	1990.3	1950.0	1931.7	2197.4	3414.3	4739.4	4897.0	4427.8	3857.9	2716.1
65°	1583.5	1565.1	1570.6	1643.9	1642.1	1937.2	2591.5	2527.3	2023.3	1495.5	854.0
67.5°	1068.5	1096.0	1118.0	1339.7	1453.3	1348.9	1251.7	1215.1	657.9	276.7	188.8
70°	601.1	604.8	628.6	837.6	1103.3	1046.5	863.2	863.2	328.1	100.8	108.1
72.5°	328.1	317.1	295.1	361.0	491.2	498.5	384.9	335.4	97.1	66.0	60.5
75°	159.4	157.6	135.6	111.8	106.3	88.0	67.8	62.3	44.0	42.2	36.7
77.5°	33.0	31.2	16.5	16.5	18.3	20.2	25.7	25.7	31.2	31.2	25.7
80°	0.0	0.0	1.8	7.3	12.8	18.3	22.0	22.0	25.7	25.7	20.2
82.5°	0.0	0.0	1.8	5.5	11.0	16.5	20.2	22.0	25.7	27.5	22.0
85°	0.0	0.0	0.0	3.7	9.2	12.8	11.0	11.0	9.2	7.3	3.7
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°	4341.7	4341.7	4341.7	4341.7	4341.7	4341.7	4341.7	4341.7	4341.7	4341.7	4341.7
2.5°	4277.6	4273.9	4189.6	4141.9	4055.8	3980.7	3920.2	3876.2	3876.2	3848.7	3823.0
5°	4156.6	4125.4	3945.8	3830.4	3667.3	3546.3	3463.8	3399.7	3298.9	3326.4	3218.2
7.5°	4006.3	3927.5	3689.3	3513.3	3287.9	3115.6	2939.7	2783.9	2633.6	2565.8	2602.5
10°	3845.0	3707.6	3386.9	3108.3	2827.9	2512.7	2307.4	2058.1	1904.2	1895.0	1854.7
12.5°	3674.6	3518.8	3128.4	2743.6	2375.2	1995.8	1682.4	1449.7	1345.2	1229.8	1251.7
15°	3546.3	3315.4	2840.7	2377.0	1887.7	1504.7	1189.4	1009.8	910.9	883.4	874.2
17.5°	3407.0	3159.6	2547.5	1986.7	1480.8	1083.1	855.9	769.7	731.3	731.3	725.8
20°	3262.2	2983.7	2256.1	1623.8	1110.6	808.2	685.4	657.9	656.1	654.3	654.3
22.5°	3166.9	2782.1	1992.2	1290.2	837.6	646.9	595.6	584.6	592.0	614.0	614.0
25°	3066.1	2587.8	1700.8	995.2	648.8	555.3	526.0	533.3	551.6	571.8	564.5
27.5°	2963.5	2461.3	1425.9	780.7	531.5	485.7	474.7	491.2	511.3	529.7	524.2
30°	2939.7	2325.7	1165.6	592.0	456.3	423.4	430.7	445.3	465.5	472.8	480.2
32.5°	2976.3	2219.4	954.8	485.7	397.7	388.5	388.5	395.9	408.7	425.2	419.7
35°	3080.8	2158.9	755.1	421.5	364.7	355.5	353.7	361.0	368.4	373.9	368.4
37.5°	3240.2	2111.3	617.6	373.9	342.7	328.1	324.4	322.6	329.9	331.7	335.4
40°	3443.7	2136.9	524.2	344.6	320.7	304.2	293.2	293.2	293.2	298.7	300.6
42.5°	3663.6	2171.8	452.7	328.1	300.6	280.4	269.4	265.7	269.4	276.7	274.9
45°	3894.5	2239.6	406.9	302.4	282.2	256.6	241.9	238.3	247.4	262.1	260.2
47.5°	4110.8	2336.7	372.0	285.9	263.9	240.1	221.8	218.1	234.6	254.7	256.6
50°	4327.0	2505.3	359.2	273.1	251.1	223.6	207.1	203.4	221.8	247.4	252.9
52.5°	4576.3	2686.8	350.0	256.6	236.4	210.8	192.4	188.8	208.9	241.9	243.8
55°	4739.4	2840.7	342.7	227.3	208.9	190.6	175.9	174.1	196.1	225.4	232.8
57.5°	4548.8	2626.3	317.1	197.9	177.8	168.6	155.8	155.8	174.1	201.6	207.1
60°	3449.2	1728.2	225.4	159.4	150.3	144.8	139.3	139.3	153.9	174.1	175.9
62.5°	2019.7	931.0	144.8	128.3	128.3	122.8	113.6	113.6	128.3	139.3	141.1
65°	599.3	298.7	117.3	110.0	108.1	99.0	89.8	88.0	99.0	104.5	102.6
67.5°	172.3	137.5	97.1	91.6	89.8	75.1	69.6	67.8	69.6	66.0	64.1
70°	102.6	93.5	75.1	77.0	67.8	55.0	49.5	47.7	44.0	38.5	34.8
72.5°	56.8	56.8	55.0	58.6	47.7	36.7	31.2	25.7	20.2	16.5	14.7
75°	34.8	36.7	38.5	40.3	31.2	23.8	20.2	12.8	7.3	3.7	3.7
77.5°	23.8	25.7	27.5	29.3	25.7	22.0	16.5	9.2	1.8	0.0	0.0
80°	18.3	20.2	23.8	25.7	27.5	29.3	22.0	9.2	1.8	0.0	0.0
82.5°	20.2	22.0	27.5	25.7	25.7	25.7	20.2	9.2	1.8	0.0	0.0
85°	3.7	5.5	9.2	9.2	12.8	16.5	12.8	3.7	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)