

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: P528467

Luminaire Tested: **GALN-SA3C-740-U-SL3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P528467
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-740-U-SL3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 4000K, 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: 12274 lumens
Efficiency: N/A
Efficacy: 76.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

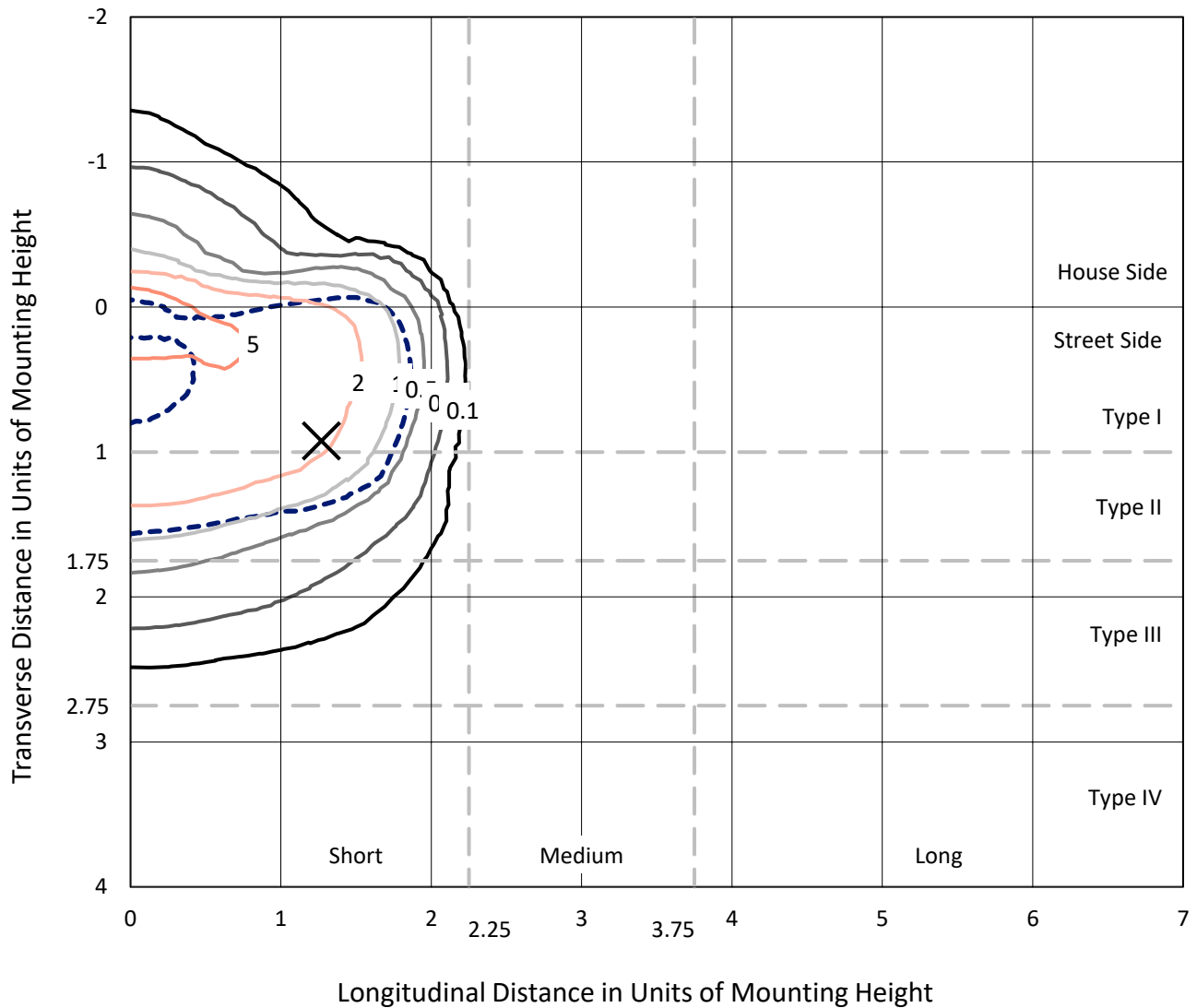
Input Watts (W): 160
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

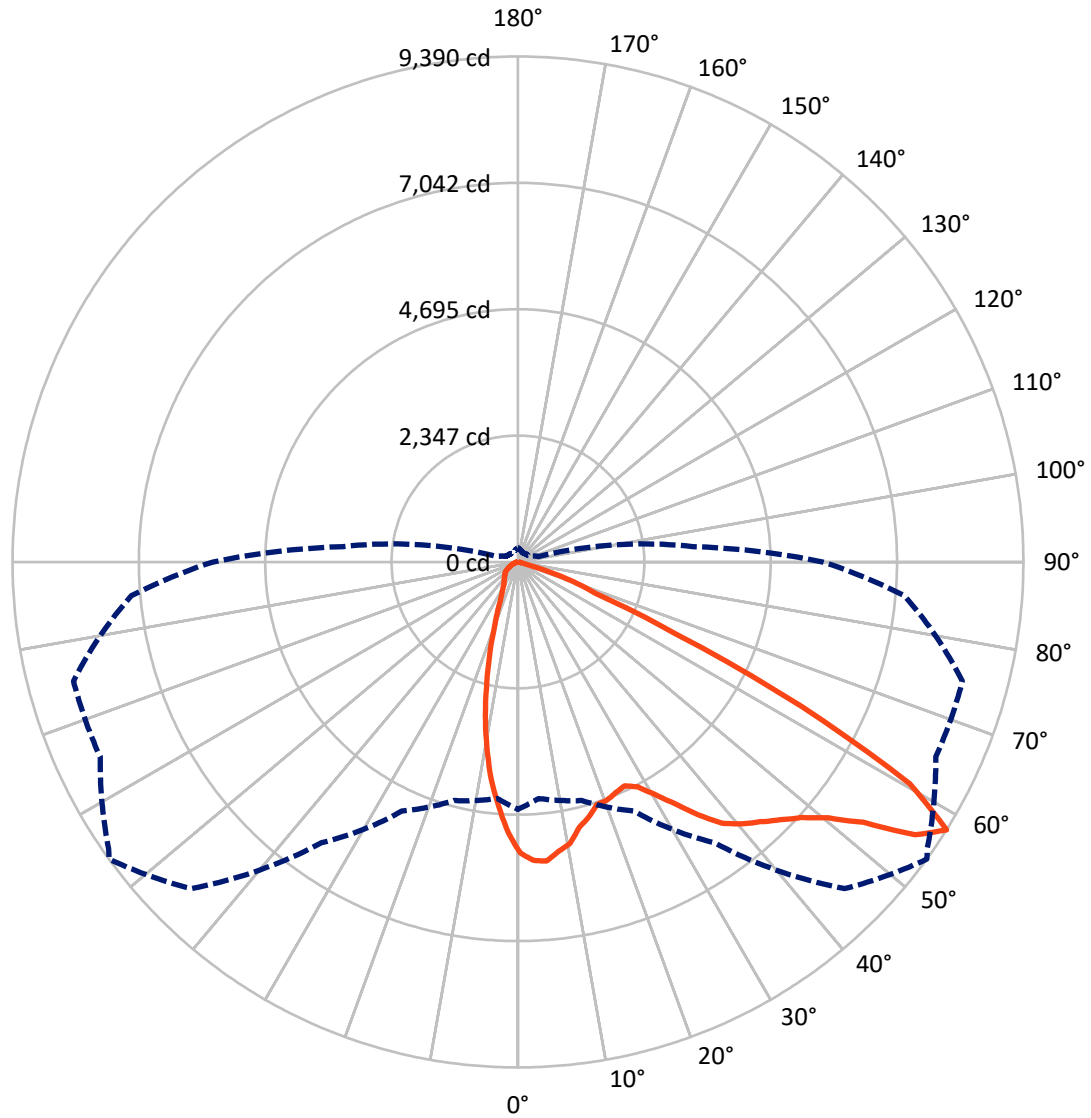
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.7 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	1734.5	0.0	1734.5
	% Fixture	14.1	0.0	14.1
Street Side	Lumens	10539.5	0.0	10539.5
	% Fixture	85.9	0.0	85.9
Total	Lumens	12274.0	0.0	12274.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	452.5	3.7
10°-20°	966.0	7.9
20°-30°	1280.1	10.4
30°-40°	1860.4	15.2
40°-50°	2758.7	22.5
50°-60°	3449.6	28.1
60°-70°	1360.7	11.1
70°-80°	135.5	1.1
80°-90°	10.5	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°	12274.0	100.0
0°-180°	12274.0	100.0

Coefficient of Utilization

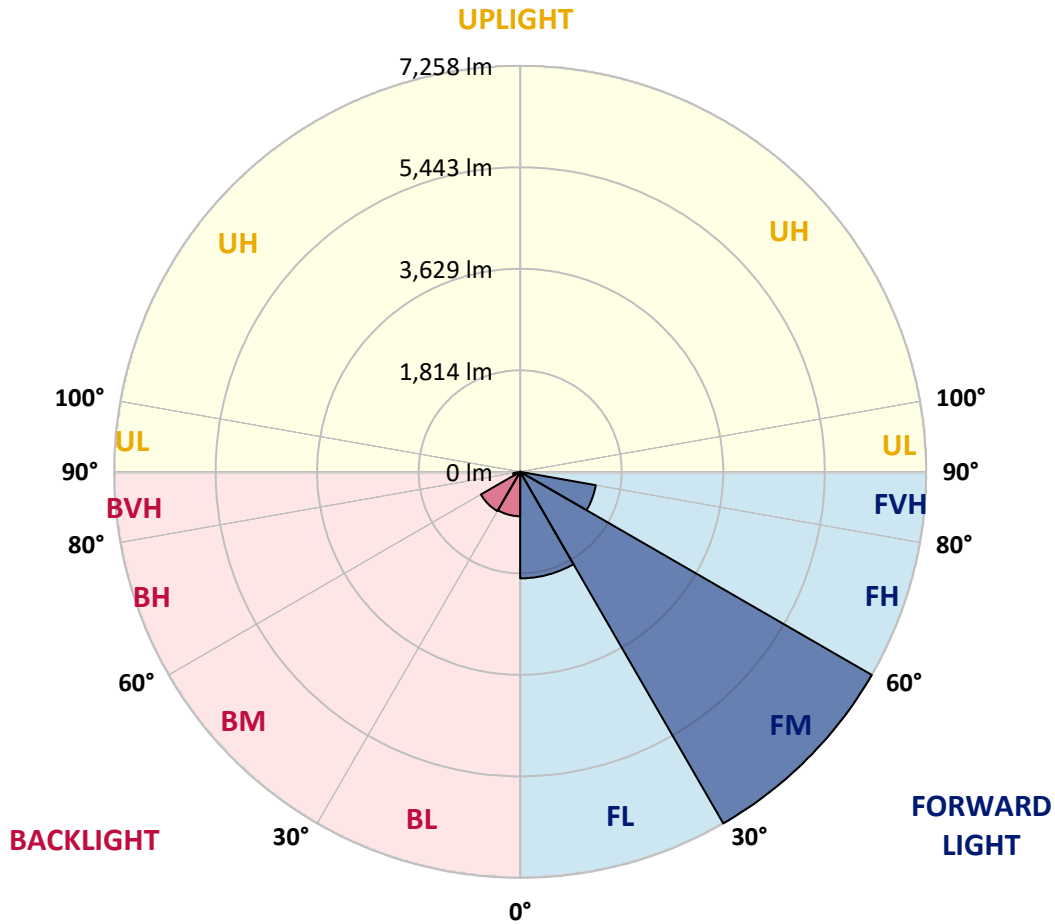


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1905.3	15.5			
FM (30°-60°)	7257.6	59.1			
FH (60°-80°)	1371.8	11.2			G1/1800
FVH (80°-90°)	4.8	0.0			G0/10
BL (0°-30°)	793.3	6.5	B2/1000		
BM (30°-60°)	811.1	6.6	B1/1000		
BH (60°-80°)	124.4	1.0	B1/500		G1/500
BVH (80°-90°)	5.8	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°	5406.9	5406.9	5406.9	5406.9	5406.9	5406.9	5406.9	5406.9	5406.9	5406.9	5406.9
2.5°	5721.8	5662.5	5667.0	5646.5	5619.1	5639.7	5550.6	5571.2	5568.9	5447.9	5368.1
5°	5578.0	5641.9	5575.8	5630.5	5578.0	5635.1	5580.3	5539.2	5473.1	5384.0	5235.7
7.5°	5333.8	5272.2	5290.5	5358.9	5370.3	5498.2	5429.7	5482.2	5454.8	5279.1	5075.9
10°	4843.1	4829.4	4920.7	5012.0	5123.9	5260.8	5313.3	5283.6	5263.1	5196.9	4925.3
12.5°	4466.5	4505.3	4503.1	4653.7	4843.1	4920.7	5057.7	5053.1	5167.2	5044.0	4783.8
15°	4108.2	4128.8	4224.6	4318.2	4528.2	4749.5	4918.4	4941.3	5078.2	4991.5	4674.2
17.5°	3889.1	3859.4	3934.8	4046.6	4261.1	4551.0	4738.1	4792.9	4980.1	4961.8	4548.7
20°	3672.3	3672.3	3733.9	3866.3	4062.6	4388.9	4722.2	4706.2	4980.1	4927.6	4414.0
22.5°	3599.2	3635.8	3651.7	3752.2	3985.0	4265.7	4653.7	4683.4	5018.9	4911.6	4354.7
25°	3699.7	3651.7	3656.3	3736.2	3955.3	4206.4	4603.5	4669.7	5089.6	4991.5	4306.8
27.5°	3715.6	3763.6	3777.3	3832.0	3978.1	4224.6	4729.0	4863.7	5265.4	5178.6	4320.5
30°	3854.9	3902.8	3900.5	3994.1	4094.5	4373.0	5009.7	5037.1	5628.2	5413.7	4404.9
32.5°	4023.8	4074.0	4090.0	4199.5	4279.4	4644.6	5352.1	5422.8	5977.4	5783.4	4626.3
35°	4233.7	4215.5	4288.5	4398.1	4569.2	5041.7	5769.8	5888.4	6354.0	6262.7	4854.5
37.5°	4496.2	4473.4	4544.1	4722.2	4955.0	5511.8	6155.5	6233.1	6627.9	6707.8	5276.8
40°	4681.1	4690.2	4904.7	5144.4	5390.9	5959.2	6399.7	6475.0	6819.6	7123.2	5596.3
42.5°	4989.2	5046.3	5304.2	5596.3	5854.2	6294.7	6598.2	6671.3	6908.6	7456.4	6027.7
45°	5436.5	5411.4	5696.7	6023.1	6308.4	6643.9	6833.3	6808.2	6961.1	7787.3	6299.3
47.5°	6011.7	6016.2	6205.7	6484.1	6780.8	6947.4	7095.8	7006.8	7070.7	8136.5	6662.1
50°	6404.2	6438.5	6591.4	6876.7	7025.0	7280.7	7470.1	7415.3	7394.8	8346.5	6890.4
52.5°	6504.7	6607.4	6689.5	7045.6	7392.5	7796.5	8038.4	8154.8	7789.6	8417.3	7180.2
55°	5746.9	5838.2	6128.1	6616.5	7531.7	8613.5	8946.8	8949.1	8305.4	8732.2	7383.4
57.5°	4594.3	4409.5	4587.5	5105.6	6367.7	8579.3	9389.5	9282.3	8563.3	8547.4	7207.6
60°	3177.0	3131.4	3142.8	3348.2	4407.2	6824.2	8367.1	8506.3	7885.5	7408.5	5705.8
62.5°	2517.4	2478.6	2428.4	2405.6	2736.5	4252.0	5902.1	6098.4	5514.1	4804.3	3382.4
65°	1971.9	1949.1	1956.0	2047.3	2045.0	2412.4	3227.2	3147.3	2519.7	1862.4	1063.6
67.5°	1330.6	1364.8	1392.2	1668.4	1809.9	1679.8	1558.8	1513.2	819.4	344.6	235.1
70°	748.6	753.2	782.8	1043.0	1374.0	1303.2	1075.0	1075.0	408.5	125.5	134.7
72.5°	408.5	394.8	367.5	449.6	611.7	620.8	479.3	417.7	121.0	82.2	75.3
75°	198.6	196.3	168.9	139.2	132.4	109.6	84.4	77.6	54.8	52.5	45.6
77.5°	41.1	38.8	20.5	20.5	22.8	25.1	32.0	32.0	38.8	38.8	32.0
80°	0.0	0.0	2.3	9.1	16.0	22.8	27.4	27.4	32.0	32.0	25.1
82.5°	0.0	0.0	2.3	6.8	13.7	20.5	25.1	27.4	32.0	34.2	27.4
85°	0.0	0.0	0.0	4.6	11.4	16.0	13.7	13.7	11.4	9.1	4.6
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°	5406.9	5406.9	5406.9	5406.9	5406.9	5406.9	5406.9	5406.9	5406.9	5406.9	5406.9
2.5°	5327.0	5322.4	5217.4	5158.1	5050.8	4957.2	4881.9	4827.1	4827.1	4792.9	4761.0
5°	5176.3	5137.5	4913.9	4770.1	4567.0	4416.3	4313.6	4233.7	4108.2	4142.4	4007.8
7.5°	4989.2	4891.1	4594.3	4375.2	4094.5	3880.0	3660.9	3466.9	3279.7	3195.3	3240.9
10°	4788.3	4617.2	4217.8	3870.8	3521.6	3129.1	2873.5	2563.1	2371.4	2359.9	2309.7
12.5°	4576.1	4382.1	3896.0	3416.7	2957.9	2485.5	2095.2	1805.3	1675.2	1531.4	1558.8
15°	4416.3	4128.8	3537.6	2960.2	2350.8	1873.8	1481.2	1257.6	1134.3	1100.1	1088.7
17.5°	4242.9	3934.8	3172.5	2474.1	1844.1	1348.9	1065.9	958.6	910.7	910.7	903.8
20°	4062.6	3715.6	2809.6	2022.2	1383.1	1006.5	853.6	819.4	817.1	814.8	814.8
22.5°	3943.9	3464.6	2480.9	1606.8	1043.0	805.7	741.8	728.1	737.2	764.6	764.6
25°	3818.4	3222.7	2118.0	1239.3	807.9	691.5	655.0	664.2	687.0	712.1	703.0
27.5°	3690.5	3065.2	1775.7	972.3	661.9	604.8	591.1	611.7	636.8	659.6	652.7
30°	3660.9	2896.3	1451.6	737.2	568.3	527.2	536.3	554.6	579.7	588.8	598.0
32.5°	3706.5	2763.9	1189.1	604.8	495.3	483.9	483.9	493.0	509.0	529.5	522.7
35°	3836.6	2688.6	940.3	524.9	454.2	442.8	440.5	449.6	458.8	465.6	458.8
37.5°	4035.2	2629.3	769.1	465.6	426.8	408.5	404.0	401.7	410.8	413.1	417.7
40°	4288.5	2661.2	652.7	429.1	399.4	378.9	365.2	365.2	365.2	372.0	374.3
42.5°	4562.4	2704.6	563.7	408.5	374.3	349.2	335.5	330.9	335.5	344.6	342.4
45°	4850.0	2789.0	506.7	376.6	351.5	319.5	301.3	296.7	308.1	326.4	324.1
47.5°	5119.3	2910.0	463.3	356.0	328.7	299.0	276.2	271.6	292.1	317.2	319.5
50°	5388.6	3120.0	447.3	340.1	312.7	278.4	257.9	253.3	276.2	308.1	315.0
52.5°	5699.0	3345.9	435.9	319.5	294.4	262.5	239.6	235.1	260.2	301.3	303.6
55°	5902.1	3537.6	426.8	283.0	260.2	237.4	219.1	216.8	244.2	280.7	289.9
57.5°	5664.8	3270.6	394.8	246.5	221.4	210.0	194.0	194.0	216.8	251.1	257.9
60°	4295.4	2152.2	280.7	198.6	187.2	180.3	173.5	173.5	191.7	216.8	219.1
62.5°	2515.1	1159.4	180.3	159.8	159.8	152.9	141.5	141.5	159.8	173.5	175.7
65°	746.3	372.0	146.1	136.9	134.7	123.2	111.8	109.6	123.2	130.1	127.8
67.5°	214.5	171.2	121.0	114.1	111.8	93.6	86.7	84.4	86.7	82.2	79.9
70°	127.8	116.4	93.6	95.9	84.4	68.5	61.6	59.3	54.8	47.9	43.4
72.5°	70.8	70.8	68.5	73.0	59.3	45.6	38.8	32.0	25.1	20.5	18.3
75°	43.4	45.6	47.9	50.2	38.8	29.7	25.1	16.0	9.1	4.6	4.6
77.5°	29.7	32.0	34.2	36.5	32.0	27.4	20.5	11.4	2.3	0.0	0.0
80°	22.8	25.1	29.7	32.0	34.2	36.5	27.4	11.4	2.3	0.0	0.0
82.5°	25.1	27.4	34.2	32.0	32.0	32.0	25.1	11.4	2.3	0.0	0.0
85°	4.6	6.8	11.4	11.4	16.0	20.5	16.0	4.6	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)