

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: P528441

Luminaire Tested: **GALN-SA3C-735-U-SL3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P528441
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-735-U-SL3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3500K, 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: 11433 lumens
Efficiency: N/A
Efficacy: 71.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

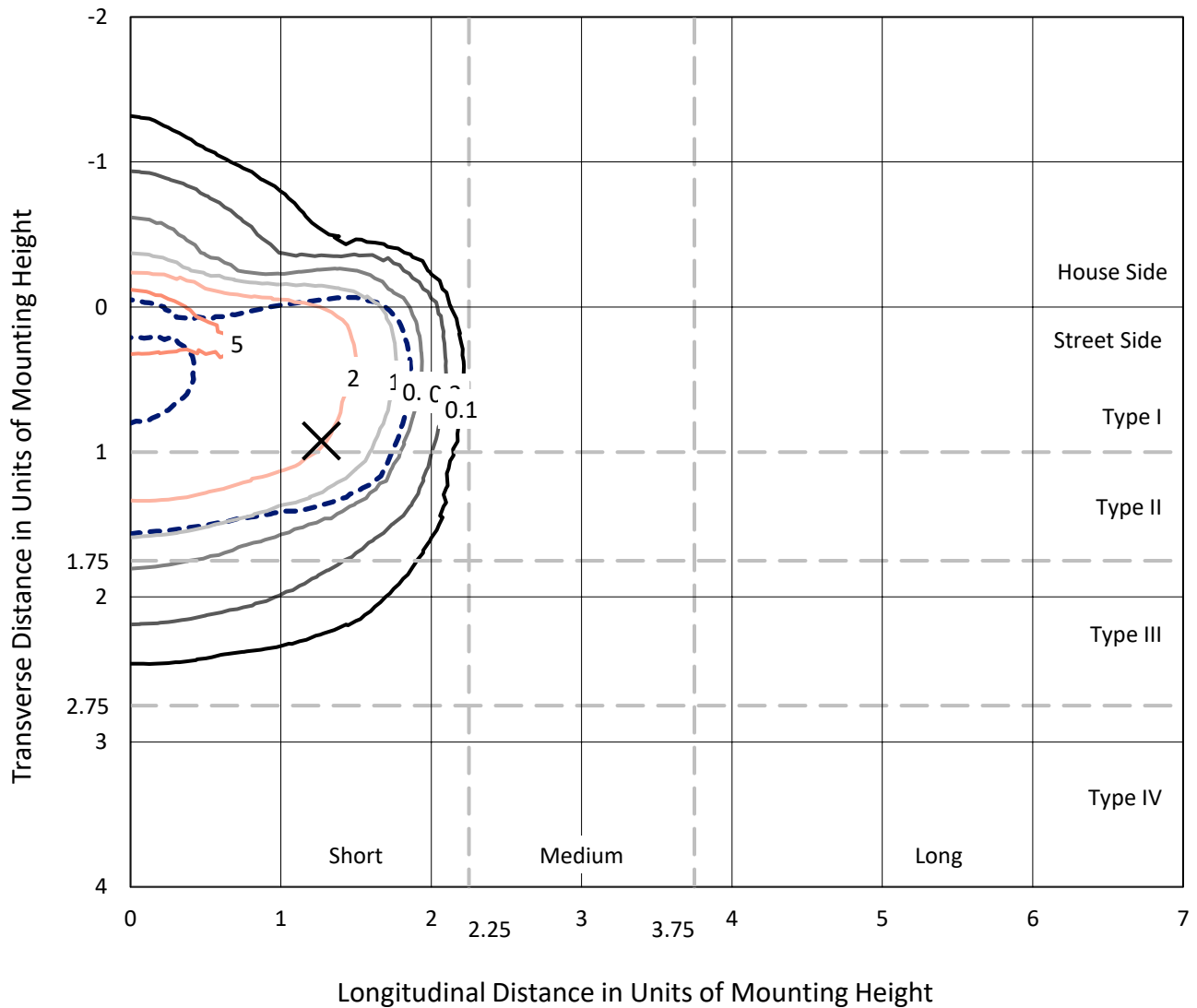
Input Watts (W): 160
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

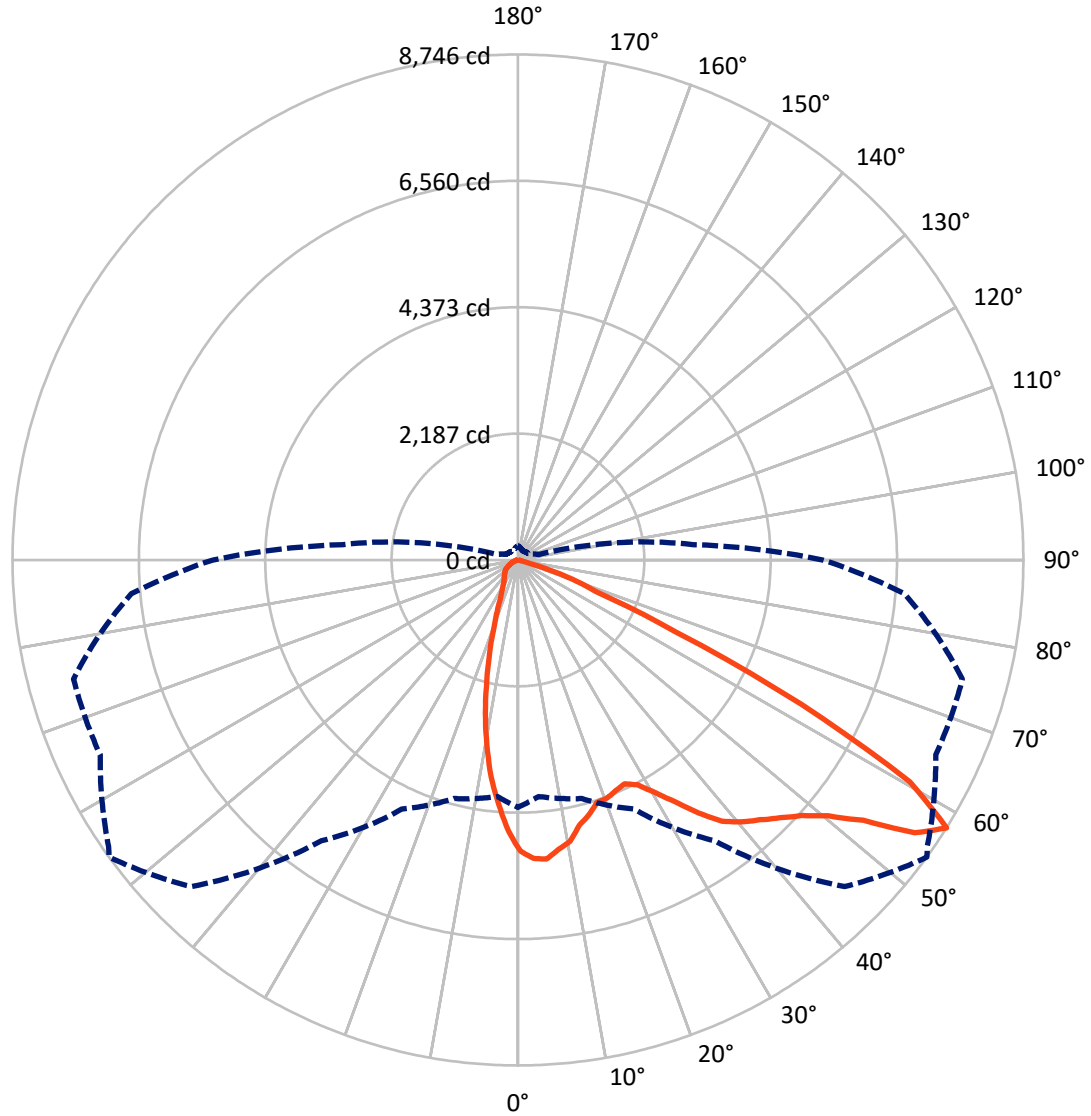
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.1 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	1615.7	0.0	1615.7
	% Fixture	14.1	0.0	14.1
Street Side	Lumens	9817.3	0.0	9817.3
	% Fixture	85.9	0.0	85.9
Total	Lumens	11433.0	0.0	11433.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	421.5	3.7
10°-20°	899.8	7.9
20°-30°	1192.4	10.4
30°-40°	1732.9	15.2
40°-50°	2569.7	22.5
50°-60°	3213.3	28.1
60°-70°	1267.5	11.1
70°-80°	126.2	1.1
80°-90°	9.8	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°	11433.0	100.0
0°-180°	11433.0	100.0

Coefficient of Utilization

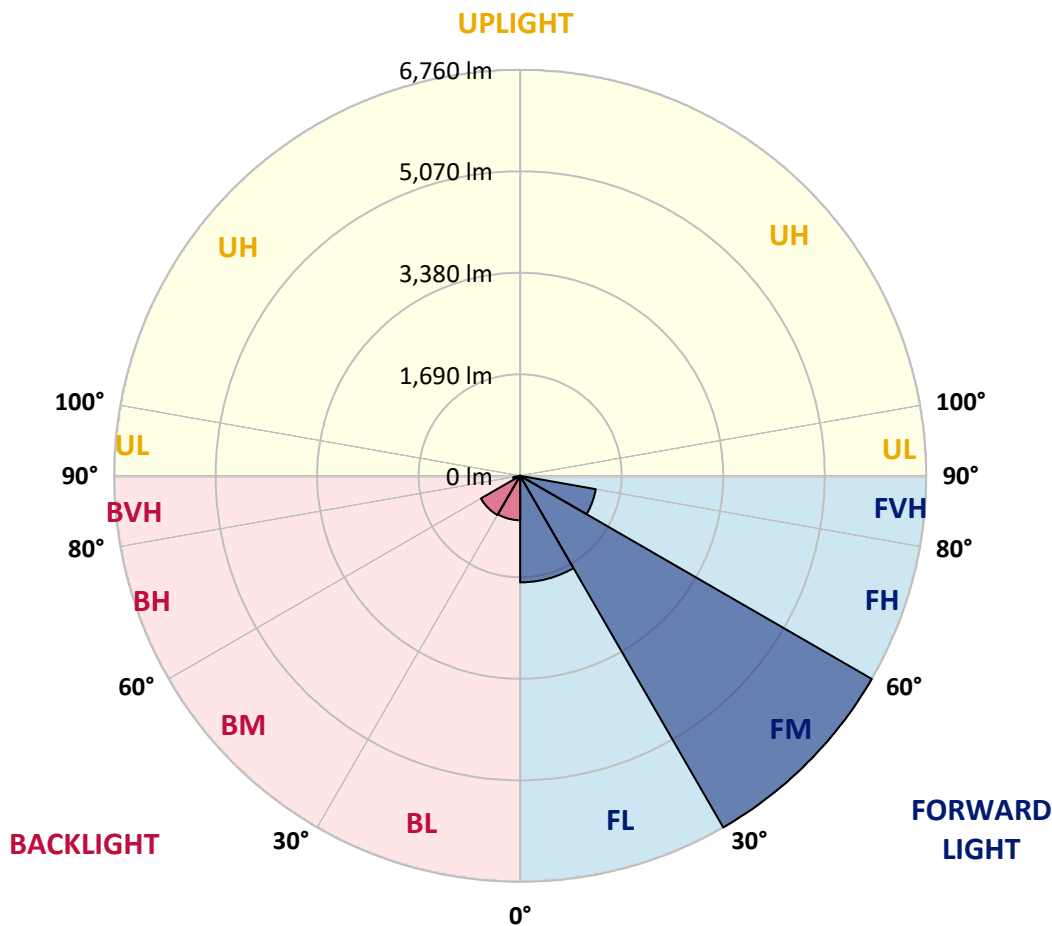


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1774.7	15.5			
FM (30°-60°)	6760.3	59.1			
FH (60°-80°)	1277.8	11.2			G1/1800
FVH (80°-90°)	4.5	0.0			G0/10
BL (0°-30°)	738.9	6.5	B2/1000		
BM (30°-60°)	755.5	6.6	B1/1000		
BH (60°-80°)	115.9	1.0	B1/500		G1/500
BVH (80°-90°)	5.4	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°	5036.4	5036.4	5036.4	5036.4	5036.4	5036.4	5036.4	5036.4	5036.4	5036.4	5036.4
2.5°	5329.8	5274.5	5278.7	5259.6	5234.1	5253.2	5170.3	5189.5	5187.3	5074.7	5000.2
5°	5195.8	5255.4	5193.7	5244.7	5195.8	5249.0	5198.0	5159.7	5098.0	5015.1	4876.9
7.5°	4968.4	4911.0	4928.0	4991.7	5002.4	5121.4	5057.6	5106.5	5081.0	4917.3	4728.1
10°	4511.3	4498.5	4583.6	4668.6	4772.8	4900.3	4949.2	4921.6	4902.5	4840.8	4587.8
12.5°	4160.5	4196.6	4194.5	4334.8	4511.3	4583.6	4711.1	4706.9	4813.2	4698.4	4456.0
15°	3826.7	3845.9	3935.1	4022.3	4217.9	4424.1	4581.4	4602.7	4730.3	4649.5	4354.0
17.5°	3622.6	3595.0	3665.1	3769.3	3969.2	4239.2	4413.5	4464.5	4638.8	4621.8	4237.0
20°	3420.7	3420.7	3478.1	3601.4	3784.2	4088.2	4398.6	4383.7	4638.8	4589.9	4111.6
22.5°	3352.6	3386.6	3401.5	3495.1	3711.9	3973.4	4334.8	4362.5	4675.0	4575.1	4056.3
25°	3446.2	3401.5	3405.8	3480.2	3684.3	3918.1	4288.1	4349.7	4740.9	4649.5	4011.7
27.5°	3461.1	3505.7	3518.5	3569.5	3705.5	3935.1	4405.0	4530.4	4904.6	4823.8	4024.4
30°	3590.7	3635.4	3633.3	3720.4	3814.0	4073.3	4666.5	4692.0	5242.6	5042.8	4103.1
32.5°	3748.1	3794.8	3809.7	3911.8	3986.2	4326.3	4985.4	5051.3	5567.9	5387.2	4309.3
35°	3943.6	3926.6	3994.7	4096.7	4256.2	4696.2	5374.4	5485.0	5918.7	5833.6	4521.9
37.5°	4188.1	4166.9	4232.8	4398.6	4615.5	5134.2	5733.7	5806.0	6173.8	6248.2	4915.2
40°	4360.3	4368.8	4568.7	4791.9	5021.5	5550.9	5961.2	6031.3	6352.4	6635.1	5212.8
42.5°	4647.3	4700.5	4940.7	5212.8	5453.1	5863.4	6146.1	6214.2	6435.3	6945.5	5614.7
45°	5064.0	5040.6	5306.4	5610.4	5876.1	6188.7	6365.1	6341.7	6484.2	7253.8	5867.6
47.5°	5599.8	5604.0	5780.5	6039.8	6316.2	6471.4	6609.6	6526.7	6586.2	7579.0	6205.7
50°	5965.4	5997.3	6139.8	6405.5	6543.7	6781.8	6958.3	6907.2	6888.1	7774.6	6418.3
52.5°	6059.0	6154.6	6231.2	6562.8	6886.0	7262.3	7487.6	7596.0	7255.9	7840.5	6688.3
55°	5353.2	5438.2	5708.2	6163.1	7015.7	8023.4	8333.7	8335.9	7736.4	8133.9	6877.5
57.5°	4279.5	4107.3	4273.2	4755.8	5931.4	7991.5	8746.2	8646.3	7976.6	7961.7	6713.8
60°	2959.3	2916.8	2927.4	3118.8	4105.2	6356.6	7793.8	7923.4	7345.2	6900.9	5314.9
62.5°	2344.9	2308.8	2262.0	2240.8	2549.0	3960.7	5497.7	5680.6	5136.3	4475.1	3150.7
65°	1836.8	1815.6	1821.9	1907.0	1904.9	2247.1	3006.1	2931.7	2347.1	1734.8	990.7
67.5°	1239.4	1271.3	1296.8	1554.1	1685.9	1564.7	1452.0	1409.5	763.2	321.0	219.0
70°	697.3	701.6	729.2	971.6	1279.8	1213.9	1001.3	1001.3	380.5	116.9	125.4
72.5°	380.5	367.8	342.3	418.8	569.8	578.3	446.5	389.0	112.7	76.5	70.2
75°	185.0	182.8	157.3	129.7	123.3	102.0	78.7	72.3	51.0	48.9	42.5
77.5°	38.3	36.1	19.1	19.1	21.3	23.4	29.8	29.8	36.1	36.1	29.8
80°	0.0	0.0	2.1	8.5	14.9	21.3	25.5	25.5	29.8	29.8	23.4
82.5°	0.0	0.0	2.1	6.4	12.8	19.1	23.4	25.5	29.8	31.9	25.5
85°	0.0	0.0	0.0	4.3	10.6	14.9	12.8	12.8	10.6	8.5	4.3
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°	5036.4	5036.4	5036.4	5036.4	5036.4	5036.4	5036.4	5036.4	5036.4	5036.4	5036.4
2.5°	4962.0	4957.7	4859.9	4804.7	4704.7	4617.6	4547.4	4496.4	4496.4	4464.5	4434.7
5°	4821.7	4785.5	4577.2	4443.2	4254.0	4113.7	4018.1	3943.6	3826.7	3858.6	3733.2
7.5°	4647.3	4555.9	4279.5	4075.5	3814.0	3614.1	3410.0	3229.3	3055.0	2976.3	3018.9
10°	4460.3	4300.8	3928.8	3605.6	3280.4	2914.7	2676.6	2387.4	2208.9	2198.2	2151.5
12.5°	4262.5	4081.8	3629.0	3182.6	2755.2	2315.2	1951.6	1681.6	1560.5	1426.5	1452.0
15°	4113.7	3845.9	3295.2	2757.4	2189.7	1745.4	1379.7	1171.4	1056.6	1024.7	1014.1
17.5°	3952.2	3665.1	2955.1	2304.5	1717.8	1256.4	992.8	892.9	848.3	848.3	841.9
20°	3784.2	3461.1	2617.1	1883.6	1288.3	937.5	795.1	763.2	761.1	759.0	759.0
22.5°	3673.7	3227.2	2310.9	1496.7	971.6	750.5	690.9	678.2	686.7	712.2	712.2
25°	3556.7	3001.9	1972.9	1154.4	752.6	644.2	610.1	618.7	639.9	663.3	654.8
27.5°	3437.7	2855.2	1654.0	905.7	616.5	563.4	550.6	569.8	593.1	614.4	608.0
30°	3410.0	2697.8	1352.1	686.7	529.4	491.1	499.6	516.6	540.0	548.5	557.0
32.5°	3452.6	2574.5	1107.6	563.4	461.3	450.7	450.7	459.2	474.1	493.2	486.8
35°	3573.7	2504.4	875.9	489.0	423.1	412.4	410.3	418.8	427.3	433.7	427.3
37.5°	3758.7	2449.1	716.4	433.7	397.6	380.5	376.3	374.2	382.7	384.8	389.0
40°	3994.7	2478.9	608.0	399.7	372.0	352.9	340.2	340.2	340.2	346.5	348.7
42.5°	4249.8	2519.3	525.1	380.5	348.7	325.3	312.5	308.3	312.5	321.0	318.9
45°	4517.7	2597.9	472.0	350.8	327.4	297.6	280.6	276.4	287.0	304.0	301.9
47.5°	4768.5	2710.6	431.6	331.6	306.1	278.5	257.2	253.0	272.1	295.5	297.6
50°	5019.4	2906.2	416.7	316.8	291.3	259.4	240.2	236.0	257.2	287.0	293.4
52.5°	5308.5	3116.7	406.1	297.6	274.2	244.5	223.2	219.0	242.4	280.6	282.8
55°	5497.7	3295.2	397.6	263.6	242.4	221.1	204.1	202.0	227.5	261.5	270.0
57.5°	5276.6	3046.5	367.8	229.6	206.2	195.6	180.7	180.7	202.0	233.9	240.2
60°	4001.0	2004.8	261.5	185.0	174.3	168.0	161.6	161.6	178.6	202.0	204.1
62.5°	2342.8	1080.0	168.0	148.8	148.8	142.4	131.8	131.8	148.8	161.6	163.7
65°	695.2	346.5	136.1	127.6	125.4	114.8	104.2	102.0	114.8	121.2	119.1
67.5°	199.8	159.4	112.7	106.3	104.2	87.2	80.8	78.7	80.8	76.5	74.4
70°	119.1	108.4	87.2	89.3	78.7	63.8	57.4	55.3	51.0	44.6	40.4
72.5°	65.9	65.9	63.8	68.0	55.3	42.5	36.1	29.8	23.4	19.1	17.0
75°	40.4	42.5	44.6	46.8	36.1	27.6	23.4	14.9	8.5	4.3	4.3
77.5°	27.6	29.8	31.9	34.0	29.8	25.5	19.1	10.6	2.1	0.0	0.0
80°	21.3	23.4	27.6	29.8	31.9	34.0	25.5	10.6	2.1	0.0	0.0
82.5°	23.4	25.5	31.9	29.8	29.8	29.8	23.4	10.6	2.1	0.0	0.0
85°	4.3	6.4	10.6	10.6	14.9	19.1	14.9	4.3	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)