

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: P452339

Luminaire Tested: **GALN-SA3B-740-U-AFL-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P452339
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-25)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA3B-740-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13917 lumens
Efficiency: N/A
Efficacy: 115.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

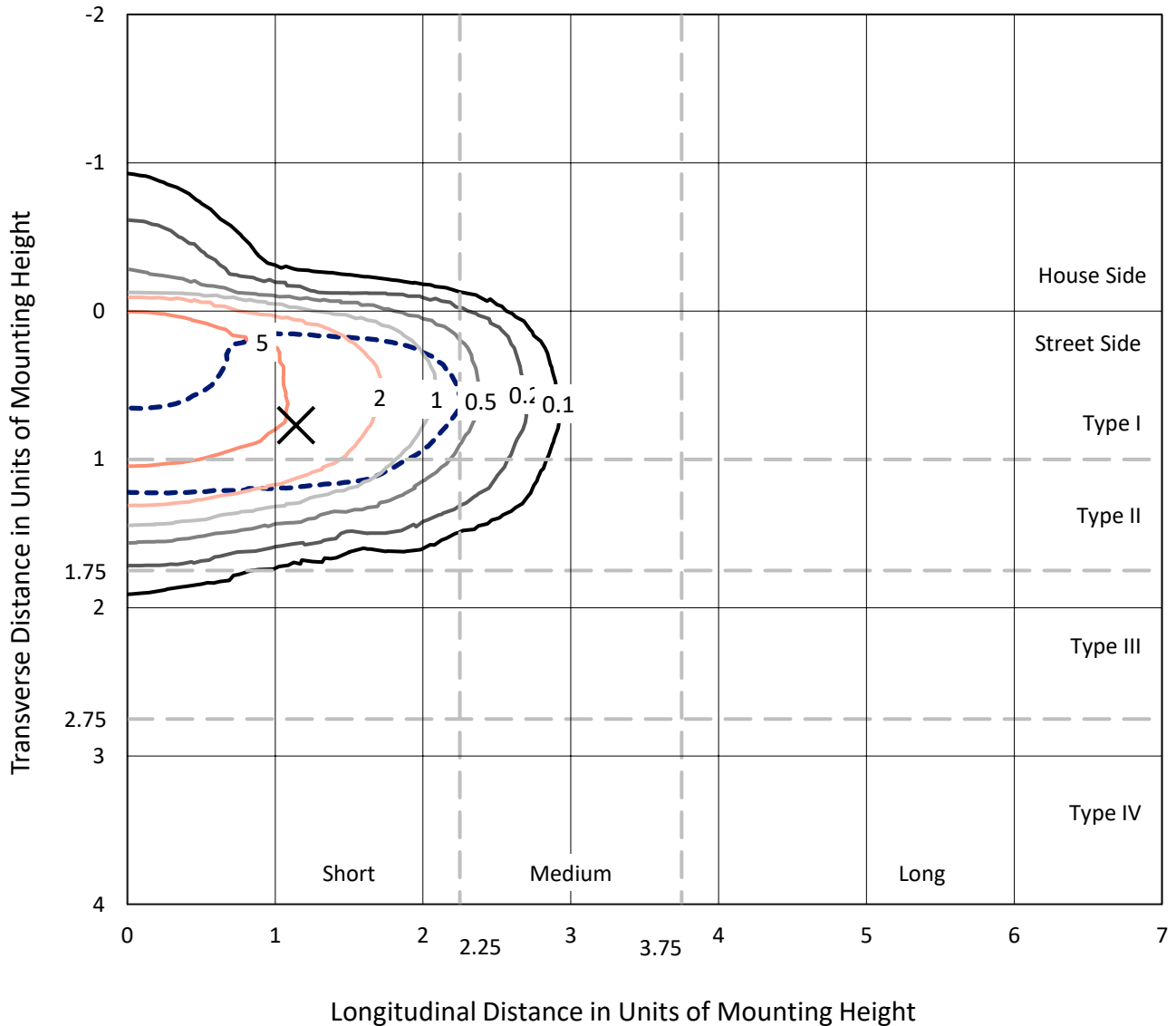
Input Watts (W): 121
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

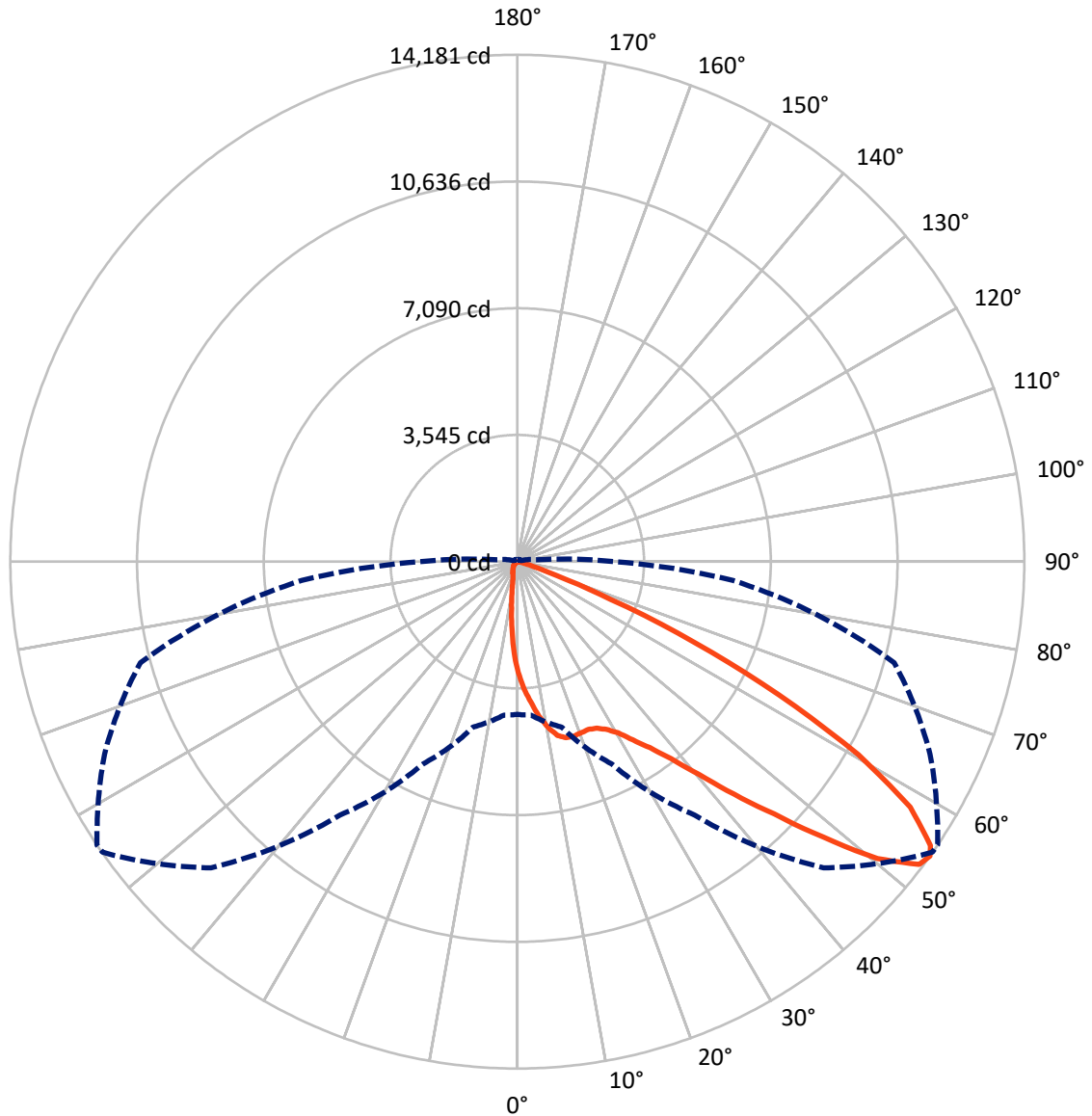
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral - - - Horizontal Cone Through 54-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	658.1	0.0	658.1
	% Fixture	4.7	0.0	4.7
Street Side	Lumens	13258.9	0.0	13258.9
	% Fixture	95.3	0.0	95.3
Total	Lumens	13917.0	0.0	13917.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	273.2	2.0
10°-20°	738.6	5.3
20°-30°	1279.2	9.2
30°-40°	2208.1	15.9
40°-50°	3758.3	27.0
50°-60°	3719.3	26.7
60°-70°	1697.6	12.2
70°-80°	218.0	1.6
80°-90°	24.6	0.2
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°	13917.0	100.0
0°-180°	13917.0	100.0



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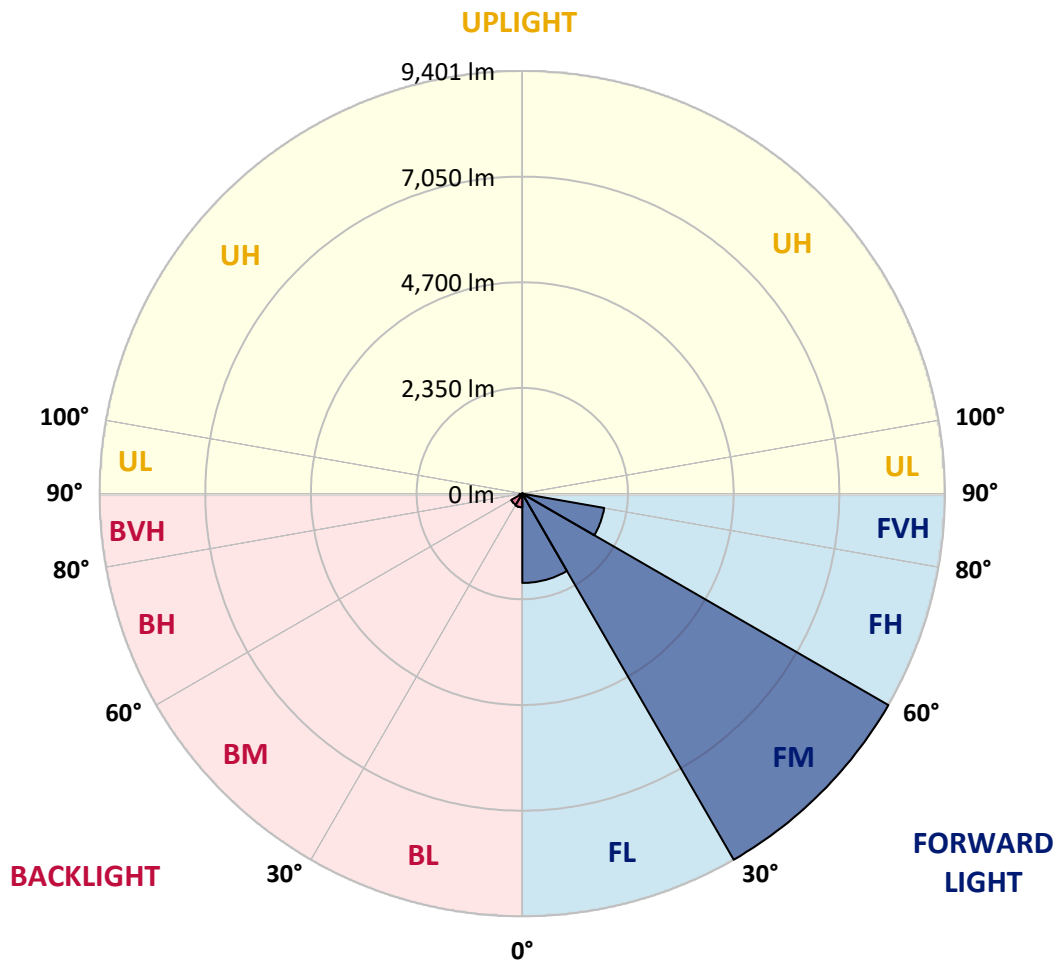
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1986.7	14.3			
FM (30°-60°)	9400.6	67.5			
FH (60°-80°)	1849.7	13.3			G2/5000
FVH (80°-90°)	21.9	0.2			G1/100
BL (0°-30°)	304.4	2.2	B1/500		
BM (30°-60°)	285.2	2.0	B1/1000		
BH (60°-80°)	65.9	0.5	B0/110		G0/110
BVH (80°-90°)	2.6	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	3092.0	3092.0	3092.0	3092.0	3092.0	3092.0	3092.0	3092.0	3092.0	3092.0	3092.0
2.5°	3929.5	3902.3	3864.7	3835.6	3767.1	3668.5	3564.2	3564.2	3463.8	3323.9	3181.2
5°	4532.3	4514.5	4477.8	4402.7	4325.7	4187.7	3978.3	3941.7	3762.4	3508.9	3242.2
7.5°	4777.4	4785.8	4787.7	4768.0	4731.4	4595.2	4387.7	4362.4	4076.0	3736.1	3322.0
10°	4542.6	4583.9	4624.3	4706.0	4821.5	4854.4	4737.0	4710.7	4429.0	3966.1	3408.4
12.5°	4193.3	4215.9	4238.4	4367.0	4599.0	4864.7	4987.7	4986.8	4748.3	4195.2	3518.2
15°	4030.9	4050.6	4052.5	4109.8	4310.7	4697.6	5094.7	5108.8	5060.0	4477.8	3636.5
17.5°	4064.7	4080.7	4067.5	4081.6	4186.8	4513.5	5082.5	5129.5	5312.6	4749.2	3743.6
20°	4285.4	4316.3	4265.6	4226.2	4258.1	4464.7	5041.2	5106.9	5491.0	5014.0	3841.2
22.5°	4681.6	4698.5	4634.6	4526.7	4470.3	4567.0	5029.9	5094.7	5643.1	5230.9	3897.6
25°	5122.0	5116.3	5045.9	4924.8	4806.5	4773.6	5104.1	5162.3	5768.9	5426.2	3914.5
27.5°	5562.3	5579.2	5460.9	5310.7	5168.9	5083.5	5270.3	5313.5	5910.7	5648.7	3935.1
30°	6074.1	6046.8	5930.4	5758.6	5596.1	5476.9	5537.9	5550.1	6106.0	5943.5	3989.6
32.5°	6739.8	6664.7	6534.1	6233.7	6117.2	5915.4	5930.4	5945.4	6343.5	6235.6	4055.3
35°	7643.0	7639.3	7383.9	6979.2	6695.6	6444.9	6379.2	6391.4	6703.2	6669.4	4200.9
37.5°	8730.3	8745.4	8454.3	8046.8	7524.7	7126.6	6991.4	6993.3	7249.6	7268.4	4422.4
40°	9615.8	9655.2	9481.5	9206.4	8690.9	8068.4	7841.2	7820.5	8017.7	7994.2	4738.9
42.5°	9997.0	10033.6	10098.4	10194.2	9910.6	9397.0	8860.9	8889.0	8949.1	8784.8	5093.8
45°	9810.1	9868.3	10122.8	10714.3	10981.0	10808.2	10168.8	10070.2	9815.8	9643.9	5450.6
47.5°	9031.7	9173.5	9598.9	10583.8	11517.1	12101.2	11644.8	11514.3	10683.4	10271.2	5677.8
50°	7752.0	7760.4	8352.9	9612.0	11239.2	12917.1	13151.9	13054.2	11491.8	10623.3	5792.4
52.5°	5619.6	5804.6	6347.3	7805.5	10035.5	12793.2	14112.4	14072.0	12325.6	10803.5	5957.6
54°	4272.2	4307.9	4790.5	6237.4	8652.4	12112.4	14171.5	14180.9	12739.7	10912.5	6055.3
55°	3502.3	3416.8	3923.9	5313.5	7708.8	11510.6	13978.1	14023.2	12925.6	10968.8	6127.6
57.5°	1660.1	1661.0	2048.8	2802.8	4828.1	8937.9	12796.0	12955.6	12946.2	11065.5	6350.1
60°	840.4	846.0	931.4	1293.9	2384.9	5941.7	10580.1	10960.3	11950.0	11079.6	6423.3
62.5°	587.8	581.2	567.1	622.5	1003.7	3019.7	7876.8	8207.3	10152.8	10543.5	6190.5
65°	503.3	489.2	449.8	441.3	507.0	1202.8	4906.0	5445.0	7752.0	9129.4	5527.6
67.5°	430.0	424.4	388.7	367.1	358.7	523.9	2531.4	2815.0	5298.5	6562.3	4186.8
70°	365.3	362.4	340.8	313.6	290.1	313.6	938.9	1163.4	2953.0	3533.3	1975.5
72.5°	296.7	299.5	303.3	268.5	244.1	222.5	400.9	466.7	1235.7	1262.9	691.1
75°	260.1	257.3	257.3	233.8	203.8	165.3	220.7	237.6	378.4	351.2	160.6
77.5°	183.1	176.5	206.6	192.5	169.9	117.4	125.8	133.3	156.8	134.3	75.1
80°	126.8	126.8	132.4	172.8	153.0	85.4	77.0	82.6	93.0	79.8	43.2
82.5°	71.4	73.2	86.4	92.0	89.2	57.3	50.7	51.6	62.0	54.5	27.2
85°	8.5	14.1	49.8	48.8	36.6	25.4	28.2	29.1	38.5	33.8	16.0
87.5°	0.9	1.9	10.3	13.1	9.4	10.3	10.3	10.3	13.1	15.0	11.3
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°	3092.0	3092.0	3092.0	3092.0	3092.0	3092.0	3092.0	3092.0	3092.0	3092.0	3092.0
2.5°	3104.2	3032.8	2862.9	2665.7	2539.9	2335.2	2162.4	2037.5	2006.5	1946.4	1964.3
5°	3100.4	2952.1	2605.6	2239.4	1848.8	1557.7	1340.8	1169.9	1094.8	1045.0	1010.3
7.5°	3102.3	2870.4	2314.5	1731.4	1264.8	979.3	778.4	674.2	604.7	575.6	579.3
10°	3107.9	2778.3	1976.5	1282.6	853.5	632.9	509.8	460.1	436.6	432.9	431.9
12.5°	3121.1	2677.9	1653.5	952.1	597.2	460.1	413.1	396.2	388.7	388.7	385.9
15°	3135.1	2567.1	1384.9	708.0	460.1	395.3	373.7	365.3	360.6	360.6	359.6
17.5°	3135.1	2439.4	1134.2	549.3	396.2	363.4	346.5	335.2	331.4	331.4	330.5
20°	3115.4	2291.0	911.7	442.2	359.6	333.3	316.4	304.2	299.5	297.6	296.7
22.5°	3046.9	2092.9	725.8	380.3	329.6	307.0	285.4	271.4	267.6	265.7	266.7
25°	2924.8	1869.4	574.6	334.3	302.3	275.1	256.3	246.0	242.2	242.2	243.2
27.5°	2799.0	1635.6	455.4	299.5	269.5	245.1	230.0	223.5	222.5	225.3	226.3
30°	2682.6	1400.9	369.0	271.4	240.4	219.7	209.4	207.5	207.5	208.4	209.4
32.5°	2553.0	1195.3	308.9	246.9	216.9	199.1	193.4	193.4	195.3	195.3	197.2
35°	2471.3	1018.8	271.4	223.5	199.1	184.0	180.3	181.2	184.0	187.8	189.7
37.5°	2427.2	877.9	246.9	204.7	182.2	171.8	168.1	169.9	176.5	183.1	184.0
40°	2430.9	771.8	227.2	188.7	169.0	157.7	154.9	160.6	167.1	173.7	174.6
42.5°	2472.3	692.9	208.4	169.9	157.7	141.8	140.8	146.5	149.3	155.9	156.8
45°	2521.1	635.7	188.7	150.2	137.1	123.0	123.9	128.6	132.4	142.7	144.6
47.5°	2536.1	596.2	166.2	127.7	112.7	108.0	108.9	111.7	119.2	128.6	129.6
50°	2553.0	571.8	144.6	108.0	95.8	94.8	95.8	97.7	102.3	106.1	105.2
52.5°	2625.3	570.9	126.8	93.9	81.7	83.6	84.5	83.6	79.8	74.2	72.3
54°	2692.9	573.7	118.3	87.3	75.1	77.9	77.0	72.3	62.9	57.3	54.5
55°	2747.4	576.5	113.6	82.6	71.4	72.3	73.2	63.8	51.6	46.0	44.1
57.5°	2854.4	569.9	102.3	72.3	62.9	59.2	58.2	42.3	28.2	24.4	22.5
60°	2800.9	514.5	93.0	62.0	53.5	47.9	39.4	23.5	14.1	10.3	10.3
62.5°	2590.6	436.6	82.6	50.7	44.1	36.6	20.7	13.1	6.6	3.8	2.8
65°	2317.3	367.1	74.2	40.4	34.7	23.5	11.3	8.5	2.8	0.0	0.0
67.5°	1723.0	272.3	62.9	31.9	26.3	15.0	7.5	4.7	0.9	0.0	0.0
70°	798.1	166.2	53.5	24.4	18.8	11.3	5.6	2.8	0.0	0.0	0.0
72.5°	229.1	104.2	44.1	17.8	13.1	9.4	4.7	1.9	0.9	0.0	0.0
75°	79.8	83.6	32.9	13.1	10.3	6.6	3.8	1.9	0.9	0.0	0.0
77.5°	47.9	67.6	20.7	11.3	8.5	5.6	3.8	1.9	0.9	0.9	0.0
80°	27.2	45.1	13.1	9.4	7.5	4.7	2.8	1.9	0.9	0.9	0.0
82.5°	15.0	21.6	10.3	8.5	6.6	4.7	2.8	1.9	0.9	0.9	0.9
85°	12.2	11.3	8.5	7.5	5.6	3.8	2.8	0.9	0.0	0.0	0.0
87.5°	9.4	7.5	7.5	7.5	5.6	3.8	2.8	0.9	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)