

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: P454675

Luminaire Tested: **GALN-SA5D-740-U-T2R-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P454675
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-7)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA5D-740-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31017 lumens
Efficiency: N/A
Efficacy: 100.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G3

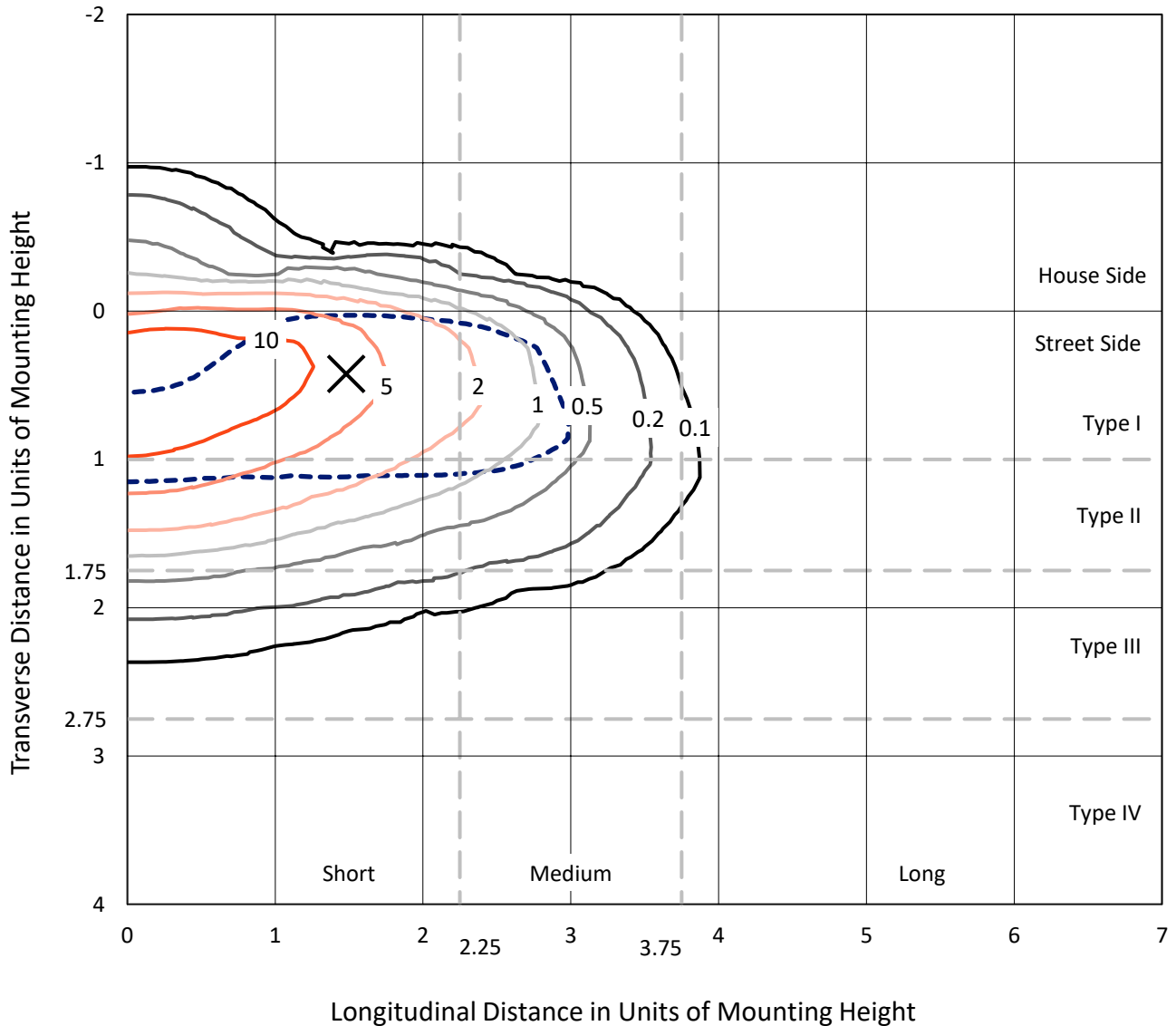
Input Watts (W): 309
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

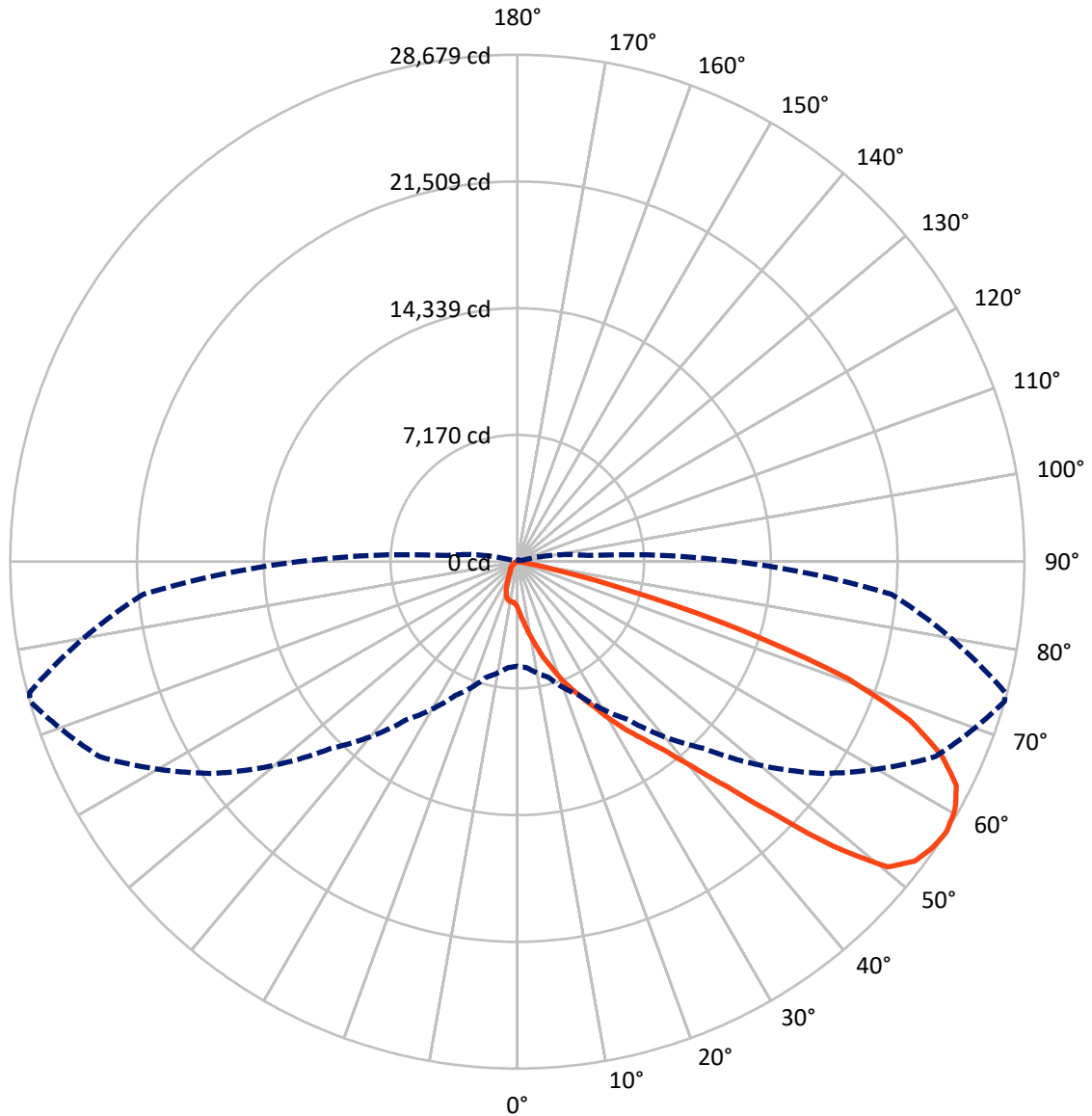
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.7 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 74-Deg Lateral - - - Horizontal Cone Through 57-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1788.9	0.0	1788.9
	% Fixture	5.8	0.0	5.8
Street Side	Lumens	29228.0	0.0	29228.0
	% Fixture	94.2	0.0	94.2
Total	Lumens	31017.0	0.0	31017.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	313.5	1.0
10°-20°	1235.8	4.0
20°-30°	2644.4	8.5
30°-40°	4860.4	15.7
40°-50°	7451.1	24.0
50°-60°	7882.2	25.4
60°-70°	5147.3	16.6
70°-80°	1406.4	4.5
80°-90°	75.7	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°	31017.0	100.0
0°-180°	31017.0	100.0

Coefficient of Utilization



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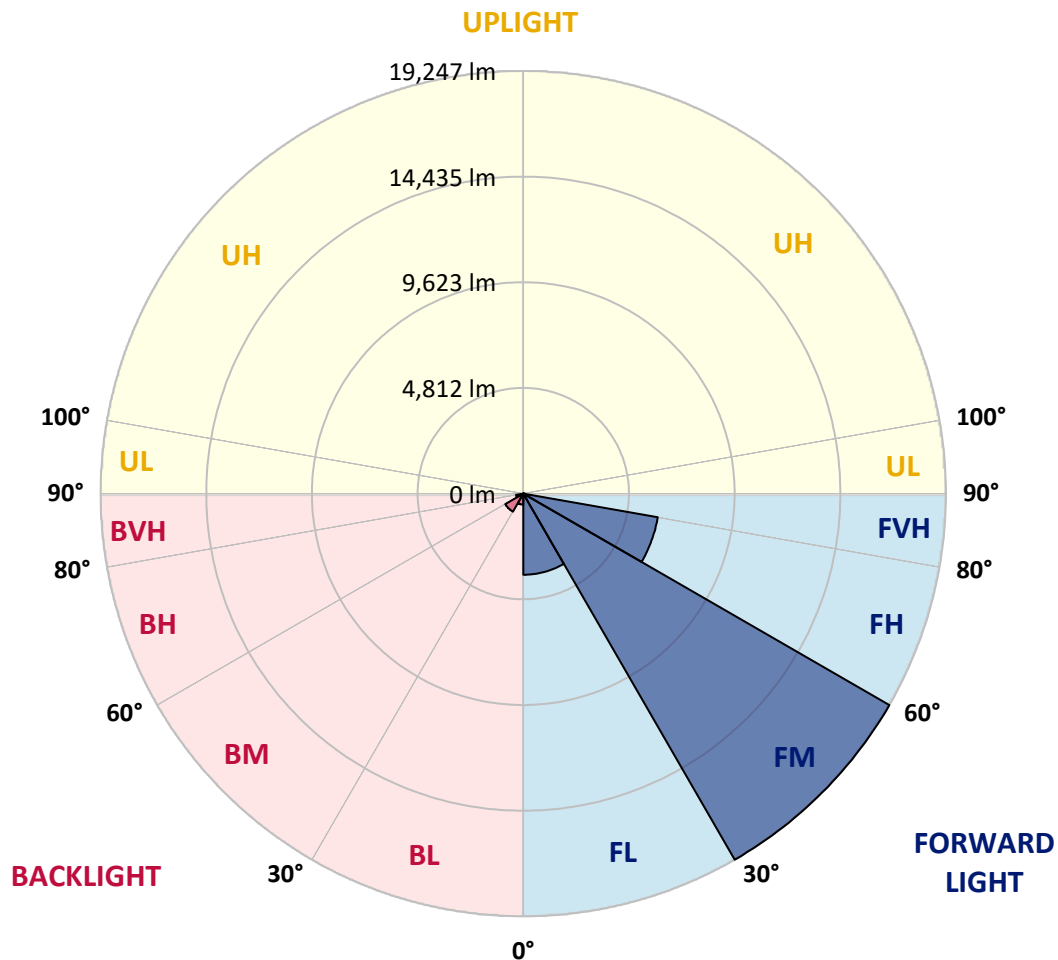
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3694.1	11.9			
FM	(30°-60°)	19246.6	62.1			
FH	(60°-80°)	6217.9	20.0			G3/7500
FVH	(80°-90°)	69.5	0.2			G1/100
BL	(0°-30°)	499.7	1.6	B1/500		
BM	(30°-60°)	947.1	3.1	B1/1000		
BH	(60°-80°)	335.9	1.1	B1/500		G1/500
BVH	(80°-90°)	6.3	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-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	2597.6	2597.6	2597.6	2597.6	2597.6	2597.6	2597.6	2597.6	2597.6	2597.6	2597.6
2.5°	3801.2	3766.9	3698.4	3674.8	3574.2	3417.8	3280.8	3096.6	2951.0	2936.0	2760.4
5°	5090.3	5013.2	4981.1	4826.9	4584.9	4357.9	3968.2	3672.7	3332.2	3306.5	2953.1
7.5°	6332.4	6225.3	6193.2	6047.6	5764.9	5407.3	4901.9	4364.4	3824.7	3775.5	3212.2
10°	7231.8	7246.8	7189.0	7092.6	6863.5	6499.4	5876.3	5141.7	4372.9	4310.8	3503.5
12.5°	7876.4	7874.3	7885.0	7882.8	7760.8	7484.5	6829.2	5983.3	4976.8	4854.8	3837.6
15°	8296.2	8302.6	8334.7	8446.1	8458.9	8287.6	7741.5	6788.5	5677.1	5525.1	4199.5
17.5°	8720.2	8765.1	8816.5	8921.5	9015.7	8947.2	8561.7	7628.0	6311.0	6197.5	4587.1
20°	9420.4	9482.5	9452.6	9516.8	9566.1	9572.5	9274.8	8403.2	7079.8	6889.2	5030.4
22.5°	10540.4	10538.3	10461.2	10345.6	10249.2	10244.9	9975.1	9199.9	7777.9	7593.7	5475.8
25°	11956.0	11962.4	11812.5	11482.7	11242.8	10949.5	10638.9	9898.0	8525.3	8298.3	5944.8
27.5°	13579.2	13538.5	13311.5	12857.5	12382.1	11881.0	11433.4	10709.6	9317.6	9129.2	6482.3
30°	15037.6	15022.6	14757.0	14202.4	13577.1	13073.8	12425.0	11726.8	10343.4	10112.1	7084.1
32.5°	16395.3	16416.7	16048.4	15474.4	14870.5	14290.2	13604.9	12699.1	11349.9	11022.3	7739.4
35°	17455.3	17476.7	17095.6	16618.0	15997.0	15515.1	14862.0	13735.5	12343.6	12067.3	8493.2
37.5°	18020.7	18048.5	17827.9	17468.2	17080.6	16838.6	16230.4	15069.7	13551.4	13384.3	9384.0
40°	18127.8	18159.9	18063.5	17967.1	17945.7	18119.2	17941.4	16641.6	15226.0	14964.8	10711.8
42.5°	17806.5	17849.4	17892.2	18106.3	18543.2	19179.2	19798.1	18774.5	17382.5	17031.3	12335.0
45°	16962.8	16958.5	17127.7	17682.3	18661.0	20018.7	21738.3	21444.9	20320.6	19903.1	14628.6
47.5°	15519.4	15498.0	15864.2	16654.4	18179.2	20172.9	23320.9	24687.2	24070.4	23684.9	17093.4
50°	13320.1	13425.0	14001.1	15104.0	16982.1	19706.0	23809.1	26813.7	27147.7	26738.7	19085.0
52.5°	10743.9	10739.6	11643.3	13140.2	15208.9	18678.1	23468.6	27199.1	28147.8	27835.2	20065.8
55°	7951.4	8007.0	8947.2	10456.9	12906.8	16802.2	22357.2	26803.0	28529.0	28308.4	20712.5
57°	5914.8	6013.3	6767.1	8364.7	10902.4	14945.5	20877.4	26094.1	28678.9	28559.0	21250.1
57.5°	5520.8	5525.1	6259.6	7711.5	10315.6	14232.4	20453.4	25798.6	28674.6	28608.2	21337.9
60°	3398.6	3505.6	4013.2	5212.4	7550.9	11107.9	17611.7	24100.4	28451.9	28548.3	21712.6
62.5°	2034.4	2079.4	2409.2	3141.6	4867.6	8107.7	14412.3	21926.8	27871.6	28164.9	21686.9
65°	1308.5	1319.2	1469.1	1901.6	3043.1	5480.1	11105.8	19055.0	26370.4	26910.0	20838.9
67.5°	1010.8	1027.9	1087.9	1248.5	1764.6	3413.5	7855.0	15990.5	23941.9	24637.9	18783.1
70°	897.3	905.9	927.3	978.7	1167.1	1927.3	4886.9	12491.3	19853.8	20050.8	14699.2
72.5°	732.4	755.9	822.3	839.5	925.1	1203.5	2719.7	8384.0	13339.4	13388.6	8223.3
75°	567.5	571.8	670.3	719.5	779.5	828.8	1214.2	4227.3	6407.4	6064.7	3169.4
77.5°	424.0	443.3	488.3	550.4	636.0	593.2	543.9	1593.3	1989.4	1953.0	920.8
80°	272.0	282.7	340.5	413.3	494.7	387.6	306.2	466.8	436.9	449.7	220.6
82.5°	137.1	139.2	218.4	336.2	314.8	194.9	192.7	190.6	162.8	160.6	102.8
85°	15.0	32.1	141.3	192.7	141.3	64.2	89.9	87.8	85.7	87.8	60.0
87.5°	2.1	2.1	23.6	27.8	19.3	21.4	25.7	27.8	34.3	32.1	25.7
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°	2597.6	2597.6	2597.6	2597.6	2597.6	2597.6	2597.6	2597.6	2597.6	2597.6	2597.6
2.5°	2674.7	2589.1	2430.6	2278.6	2165.1	2092.2	1998.0	1963.8	1914.5	1908.1	1884.5
5°	2790.4	2627.6	2351.4	2132.9	1957.3	1824.6	1708.9	1612.5	1535.5	1518.3	1526.9
7.5°	2955.3	2713.3	2327.8	2030.1	1786.0	1559.0	1374.8	1261.3	1180.0	1150.0	1154.3
10°	3141.6	2826.8	2323.5	1920.9	1548.3	1269.9	1068.6	968.0	920.8	903.7	884.4
12.5°	3362.1	2957.4	2312.8	1751.7	1287.0	1012.9	869.4	809.5	764.5	751.7	751.7
15°	3610.6	3096.6	2261.4	1541.9	1045.0	837.3	741.0	693.8	678.9	666.0	666.0
17.5°	3869.7	3233.7	2154.3	1282.8	867.3	717.4	657.4	629.6	608.2	593.2	593.2
20°	4165.2	3368.6	1983.0	1053.6	732.4	640.3	593.2	561.1	543.9	531.1	526.8
22.5°	4445.7	3477.8	1764.6	865.2	638.2	576.1	533.2	499.0	481.8	475.4	475.4
25°	4737.0	3544.2	1501.2	715.3	582.5	522.5	475.4	447.6	432.6	428.3	426.2
27.5°	5019.7	3582.7	1269.9	625.3	531.1	473.3	428.3	406.9	391.9	387.6	389.8
30°	5362.3	3589.1	1045.0	561.1	486.1	426.2	385.5	366.2	357.6	353.3	351.2
32.5°	5709.2	3580.6	878.0	522.5	443.3	385.5	351.2	336.2	329.8	323.4	323.4
35°	6099.0	3535.6	747.4	484.0	402.6	351.2	321.2	308.4	299.8	293.4	291.2
37.5°	6583.0	3512.1	672.4	441.1	366.2	319.1	291.2	278.4	272.0	263.4	261.3
40°	7345.3	3617.0	648.9	402.6	329.8	289.1	263.4	248.4	239.8	231.3	229.1
42.5°	8296.2	3801.2	610.3	364.1	297.7	261.3	235.6	218.4	203.4	192.7	188.5
45°	9527.5	4043.1	550.4	323.4	269.8	231.3	207.7	186.3	167.0	158.5	156.3
47.5°	10818.8	4276.6	496.8	291.2	239.8	205.6	179.9	156.3	139.2	132.8	130.6
50°	11611.2	4323.7	462.6	254.8	209.9	177.7	152.0	130.6	119.9	113.5	113.5
52.5°	11973.1	4248.7	415.5	222.7	182.0	156.3	130.6	113.5	107.1	102.8	100.7
55°	12225.8	4133.1	353.3	192.7	156.3	132.8	115.6	102.8	94.2	89.9	87.8
57°	12373.6	3976.8	306.2	169.2	134.9	115.6	102.8	92.1	83.5	75.0	75.0
57.5°	12380.0	3916.8	293.4	167.0	128.5	111.4	100.7	89.9	79.2	70.7	68.5
60°	12189.4	3505.6	235.6	141.3	102.8	94.2	83.5	70.7	55.7	47.1	45.0
62.5°	11576.9	2983.1	194.9	119.9	83.5	72.8	60.0	53.5	38.5	27.8	27.8
65°	10649.7	2419.9	167.0	96.4	68.5	53.5	40.7	38.5	23.6	12.8	10.7
67.5°	9309.1	1884.5	141.3	79.2	57.8	38.5	27.8	25.7	12.8	4.3	0.0
70°	7092.6	1284.9	117.8	64.2	42.8	27.8	19.3	15.0	8.6	2.1	0.0
72.5°	4088.1	706.7	98.5	49.3	32.1	21.4	15.0	8.6	8.6	0.0	0.0
75°	1460.5	304.1	75.0	36.4	25.7	17.1	10.7	4.3	6.4	2.1	0.0
77.5°	464.7	162.8	49.3	27.8	21.4	12.8	8.6	4.3	4.3	2.1	0.0
80°	137.1	85.7	30.0	23.6	15.0	10.7	6.4	2.1	4.3	2.1	0.0
82.5°	75.0	42.8	23.6	17.1	15.0	8.6	6.4	2.1	2.1	2.1	0.0
85°	38.5	25.7	19.3	17.1	15.0	8.6	6.4	2.1	0.0	2.1	2.1
87.5°	21.4	19.3	19.3	17.1	15.0	10.7	6.4	2.1	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)