

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: P459460

Luminaire Tested: **GALN-SA9A-735-U-T2R-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P459460
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-SA9A-735-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3500K, 615mA 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: 30920 lumens
Efficiency: N/A
Efficacy: 112.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G3

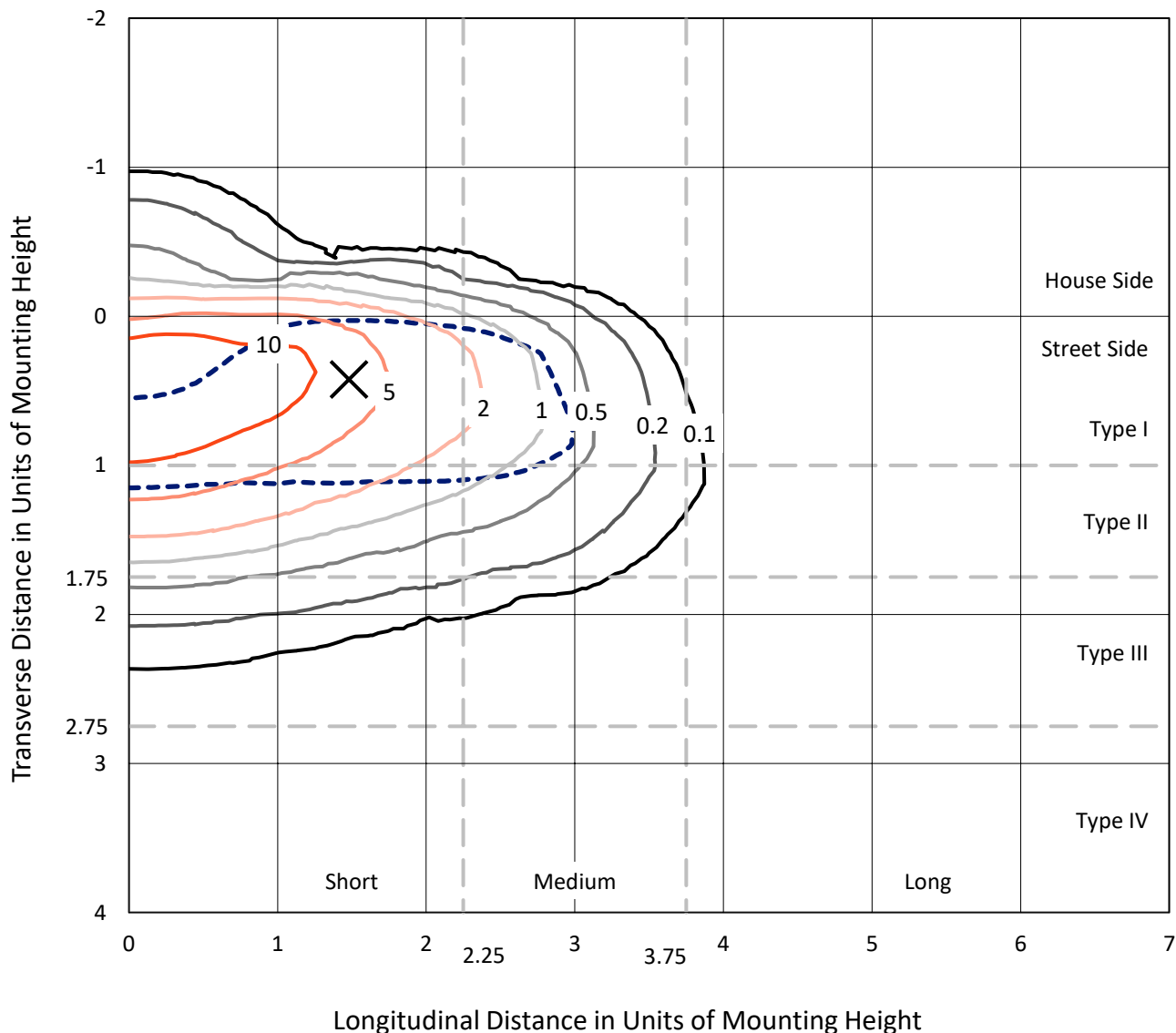
Input Watts (W): 274
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

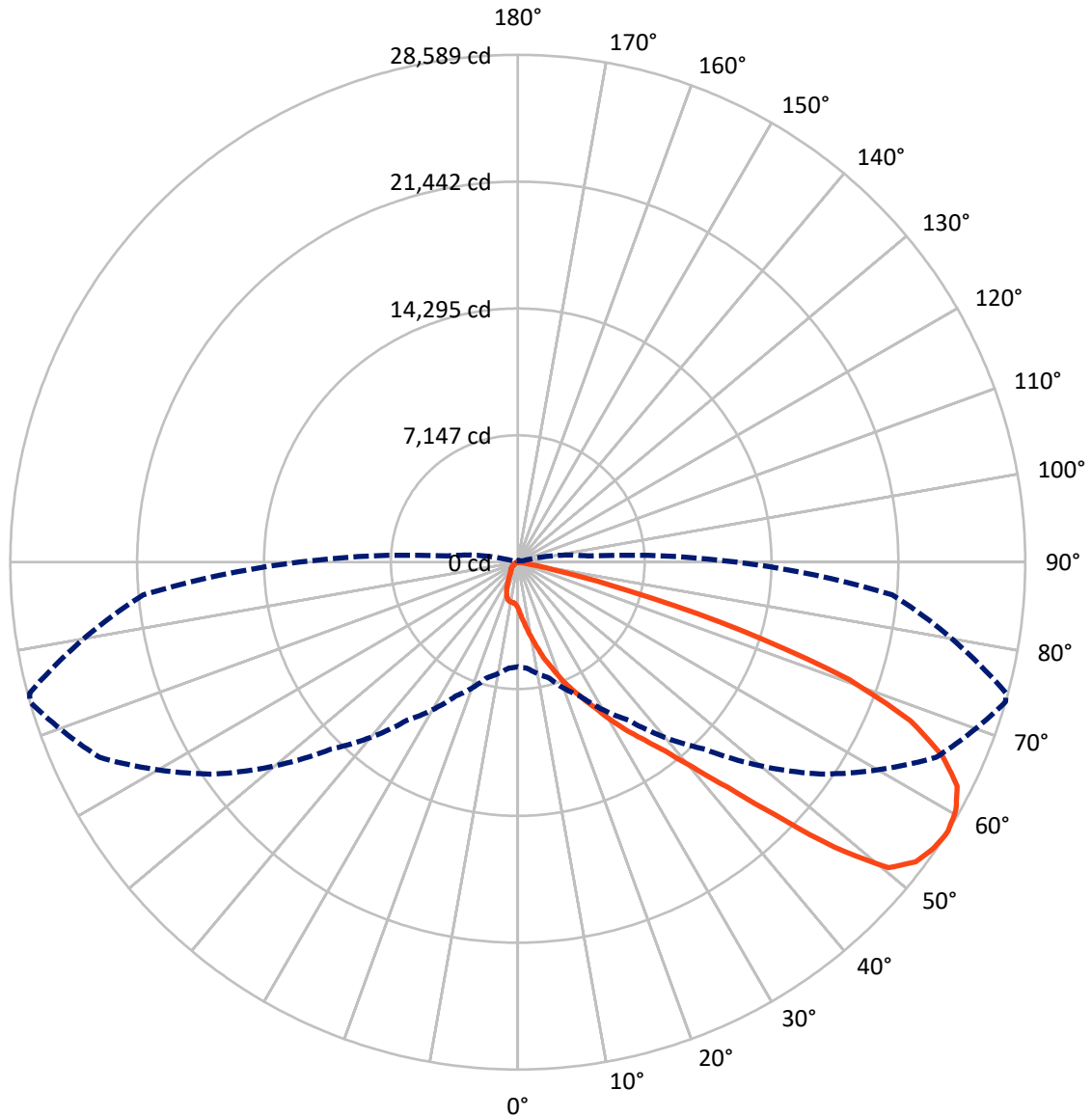
✕ Max cd
 - - - 1/2 Max cd



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	1783.4	0.0	1783.4
	% Fixture	5.8	0.0	5.8
Street Side	Lumens	29136.6	0.0	29136.6
	% Fixture	94.2	0.0	94.2
Total	Lumens	30920.0	0.0	30920.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	312.6	1.0
10°-20°	1232.0	4.0
20°-30°	2636.1	8.5
30°-40°	4845.2	15.7
40°-50°	7427.8	24.0
50°-60°	7857.6	25.4
60°-70°	5131.2	16.6
70°-80°	1402.0	4.5
80°-90°	75.5	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°	30920.0	100.0
0°-180°	30920.0	100.0

Coefficient of Utilization



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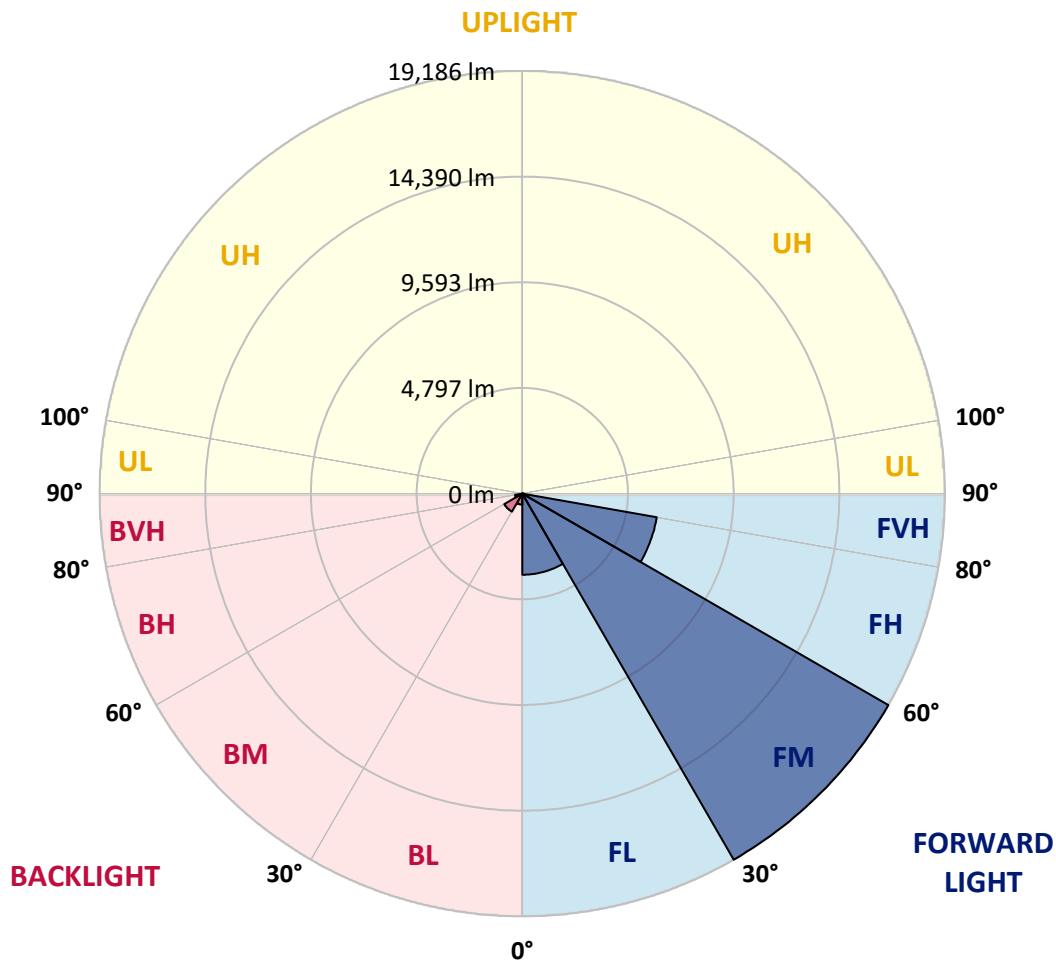
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3682.5	11.9			
FM (30°-60°)	19186.4	62.1			
FH (60°-80°)	6198.4	20.0			G3/7500
FVH (80°-90°)	69.2	0.2			G1/100
BL (0°-30°)	498.2	1.6	B1/500		
BM (30°-60°)	944.2	3.1	B1/1000		
BH (60°-80°)	334.8	1.1	B1/500		G1/500
BVH (80°-90°)	6.2	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°	2589.5	2589.5	2589.5	2589.5	2589.5	2589.5	2589.5	2589.5	2589.5	2589.5	2589.5
2.5°	3789.3	3755.1	3686.8	3663.3	3563.0	3407.1	3270.5	3086.9	2941.8	2926.8	2751.8
5°	5074.4	4997.6	4965.5	4811.8	4570.6	4344.3	3955.8	3661.2	3321.7	3296.1	2943.9
7.5°	6312.6	6205.9	6173.8	6028.7	5746.9	5390.4	4886.6	4350.7	3812.7	3763.6	3202.2
10°	7209.2	7224.2	7166.5	7070.5	6842.0	6479.1	5857.9	5125.6	4359.3	4297.3	3492.5
12.5°	7851.8	7849.7	7860.3	7858.2	7736.5	7461.1	6807.9	5964.6	4961.3	4839.6	3825.6
15°	8270.2	8276.6	8308.6	8419.6	8432.5	8261.7	7717.3	6767.3	5659.3	5507.8	4186.3
17.5°	8692.9	8737.7	8789.0	8893.6	8987.5	8919.2	8534.9	7604.1	6291.2	6178.1	4572.7
20°	9391.0	9452.9	9423.0	9487.0	9536.1	9542.5	9245.8	8376.9	7057.6	6867.6	5014.6
22.5°	10507.5	10505.3	10428.5	10313.2	10217.1	10212.9	9943.9	9171.1	7753.6	7570.0	5458.7
25°	11918.6	11925.0	11775.5	11446.8	11207.7	10915.2	10605.7	9867.0	8498.6	8272.3	5926.2
27.5°	13536.8	13496.2	13269.9	12817.3	12343.4	11843.9	11397.7	10676.1	9288.5	9100.6	6462.0
30°	14990.6	14975.6	14710.9	14158.0	13534.6	13032.9	12386.1	11690.2	10311.1	10080.5	7061.9
32.5°	16344.0	16365.4	15998.2	15426.0	14824.0	14245.5	13562.4	12659.4	11314.4	10987.8	7715.2
35°	17400.7	17422.1	17042.1	16566.0	15946.9	15466.6	14815.5	13692.6	12305.0	12029.6	8466.6
37.5°	17964.3	17992.1	17772.2	17413.5	17027.1	16785.9	16179.6	15022.6	13509.0	13342.5	9354.7
40°	18071.1	18103.1	18007.0	17911.0	17889.6	18062.5	17885.3	16589.5	15178.4	14918.0	10678.3
42.5°	17750.8	17793.5	17836.2	18049.7	18485.2	19119.2	19736.2	18715.8	17328.2	16978.0	12296.4
45°	16909.7	16905.5	17074.1	17627.0	18602.6	19956.1	21670.3	21377.9	20257.1	19840.8	14582.8
47.5°	15470.9	15449.5	15814.6	16602.3	18122.3	20109.8	23247.9	24609.9	23995.1	23610.9	17040.0
50°	13278.4	13383.0	13957.3	15056.7	16928.9	19644.4	23734.7	26729.8	27062.8	26655.1	19025.3
52.5°	10710.3	10706.0	11606.9	13099.1	15161.3	18619.7	23395.2	27114.1	28059.8	27748.1	20003.1
55°	7926.5	7982.0	8919.2	10424.2	12866.4	16749.6	22287.3	26719.1	28439.8	28219.9	20647.8
57°	5896.3	5994.5	6746.0	8338.5	10868.3	14898.8	20812.1	26012.5	28589.2	28469.7	21183.6
57.5°	5503.5	5507.8	6240.0	7687.4	10283.3	14187.9	20389.5	25717.9	28584.9	28518.8	21271.1
60°	3387.9	3494.7	4000.6	5196.1	7527.3	11073.2	17556.6	24025.0	28362.9	28459.0	21644.7
62.5°	2028.1	2072.9	2401.6	3131.7	4852.4	8082.3	14367.2	21858.2	27784.4	28076.9	21619.1
65°	1304.4	1315.0	1464.5	1895.7	3033.5	5462.9	11071.1	18995.4	26287.9	26825.9	20773.7
67.5°	1007.6	1024.7	1084.5	1244.6	1759.1	3402.9	7830.4	15940.5	23867.0	24560.8	18724.3
70°	894.5	903.0	924.4	975.6	1163.5	1921.3	4871.6	12452.3	19791.7	19988.1	14653.3
72.5°	730.1	753.6	819.8	836.8	922.2	1199.8	2711.2	8357.7	13297.7	13346.8	8197.6
75°	565.7	570.0	668.2	717.3	777.1	826.2	1210.4	4214.1	6387.3	6045.7	3159.5
77.5°	422.7	441.9	486.7	548.6	634.0	591.3	542.2	1588.3	1983.2	1946.9	918.0
80°	271.1	281.8	339.4	412.0	493.1	386.4	305.3	465.4	435.5	448.3	219.9
82.5°	136.6	138.8	217.7	335.2	313.8	194.3	192.1	190.0	162.2	160.1	102.5
85°	14.9	32.0	140.9	192.1	140.9	64.0	89.7	87.5	85.4	87.5	59.8
87.5°	2.1	2.1	23.5	27.8	19.2	21.3	25.6	27.8	34.2	32.0	25.6
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°	2589.5	2589.5	2589.5	2589.5	2589.5	2589.5	2589.5	2589.5	2589.5	2589.5	2589.5
2.5°	2666.4	2581.0	2423.0	2271.4	2158.3	2085.7	1991.8	1957.6	1908.5	1902.1	1878.6
5°	2781.6	2619.4	2344.0	2126.3	1951.2	1818.8	1703.6	1607.5	1530.7	1513.6	1522.1
7.5°	2946.0	2704.8	2320.5	2023.8	1780.4	1554.1	1370.5	1257.4	1176.3	1146.4	1150.7
10°	3131.7	2817.9	2316.3	1914.9	1543.5	1265.9	1065.3	964.9	918.0	900.9	881.7
12.5°	3351.6	2948.2	2305.6	1746.3	1283.0	1009.8	866.7	807.0	762.1	749.3	749.3
15°	3599.3	3086.9	2254.3	1537.1	1041.8	834.7	738.6	691.7	676.7	663.9	663.9
17.5°	3857.6	3223.5	2147.6	1278.7	864.6	715.2	655.4	627.6	606.3	591.3	591.3
20°	4152.2	3358.0	1976.8	1050.3	730.1	638.3	591.3	559.3	542.2	529.4	525.2
22.5°	4431.8	3466.9	1759.1	862.5	636.2	574.3	531.6	497.4	480.3	473.9	473.9
25°	4722.2	3533.1	1496.5	713.0	580.7	520.9	473.9	446.2	431.2	427.0	424.8
27.5°	5004.0	3571.5	1265.9	623.4	529.4	471.8	427.0	405.6	390.7	386.4	388.5
30°	5345.5	3577.9	1041.8	559.3	484.6	424.8	384.3	365.1	356.5	352.2	350.1
32.5°	5691.4	3569.4	875.3	520.9	441.9	384.3	350.1	335.2	328.8	322.4	322.4
35°	6079.9	3524.6	745.0	482.5	401.3	350.1	320.2	307.4	298.9	292.5	290.3
37.5°	6562.4	3501.1	670.3	439.8	365.1	318.1	290.3	277.5	271.1	262.6	260.4
40°	7322.4	3605.7	646.8	401.3	328.8	288.2	262.6	247.6	239.1	230.6	228.4
42.5°	8270.2	3789.3	608.4	362.9	296.7	260.4	234.8	217.7	202.8	192.1	187.9
45°	9497.7	4030.5	548.6	322.4	269.0	230.6	207.1	185.7	166.5	158.0	155.8
47.5°	10785.0	4263.2	495.3	290.3	239.1	204.9	179.3	155.8	138.8	132.4	130.2
50°	11574.9	4310.2	461.1	254.0	209.2	177.2	151.6	130.2	119.5	113.1	113.1
52.5°	11935.7	4235.4	414.2	222.0	181.5	155.8	130.2	113.1	106.7	102.5	100.3
55°	12187.6	4120.2	352.2	192.1	155.8	132.4	115.3	102.5	93.9	89.7	87.5
57°	12334.9	3964.3	305.3	168.6	134.5	115.3	102.5	91.8	83.3	74.7	74.7
57.5°	12341.3	3904.5	292.5	166.5	128.1	111.0	100.3	89.7	79.0	70.4	68.3
60°	12151.3	3494.7	234.8	140.9	102.5	93.9	83.3	70.4	55.5	47.0	44.8
62.5°	11540.7	2973.8	194.3	119.5	83.3	72.6	59.8	53.4	38.4	27.8	27.8
65°	10616.3	2412.3	166.5	96.1	68.3	53.4	40.6	38.4	23.5	12.8	10.7
67.5°	9280.0	1878.6	140.9	79.0	57.6	38.4	27.8	25.6	12.8	4.3	0.0
70°	7070.5	1280.9	117.4	64.0	42.7	27.8	19.2	14.9	8.5	2.1	0.0
72.5°	4075.3	704.5	98.2	49.1	32.0	21.3	14.9	8.5	8.5	0.0	0.0
75°	1455.9	303.1	74.7	36.3	25.6	17.1	10.7	4.3	6.4	2.1	0.0
77.5°	463.3	162.2	49.1	27.8	21.3	12.8	8.5	4.3	4.3	2.1	0.0
80°	136.6	85.4	29.9	23.5	14.9	10.7	6.4	2.1	4.3	2.1	0.0
82.5°	74.7	42.7	23.5	17.1	14.9	8.5	6.4	2.1	2.1	2.1	0.0
85°	38.4	25.6	19.2	17.1	14.9	8.5	6.4	2.1	0.0	2.1	2.1
87.5°	21.3	19.2	19.2	17.1	14.9	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)