

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: P455922

Luminaire Tested: **GALN-SA7A-827-U-T2R-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P455922
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-SA7A-827-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 2700K, 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: 18747 lumens
Efficiency: N/A
Efficacy: 87.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

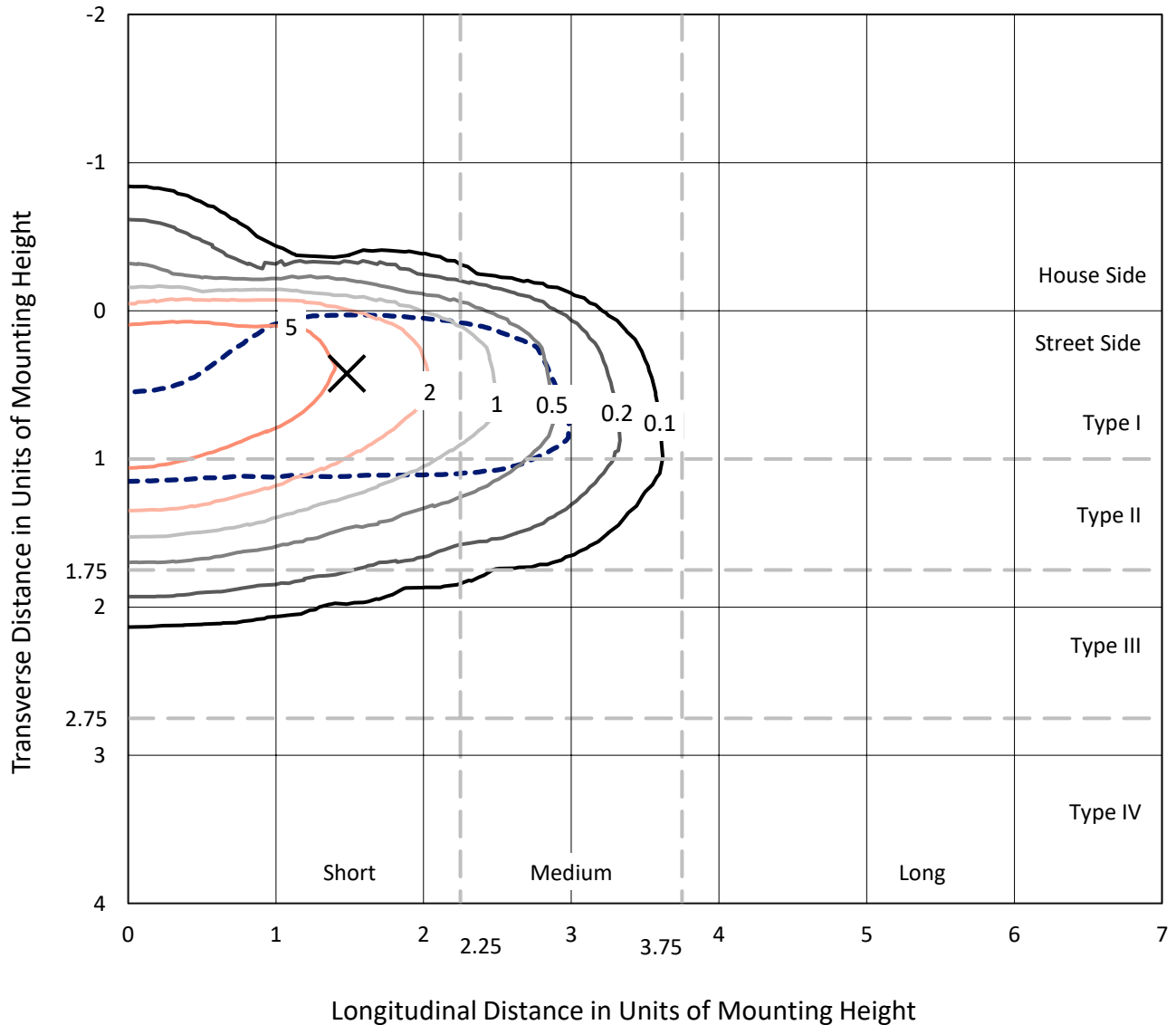
Input Watts (W): 215
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

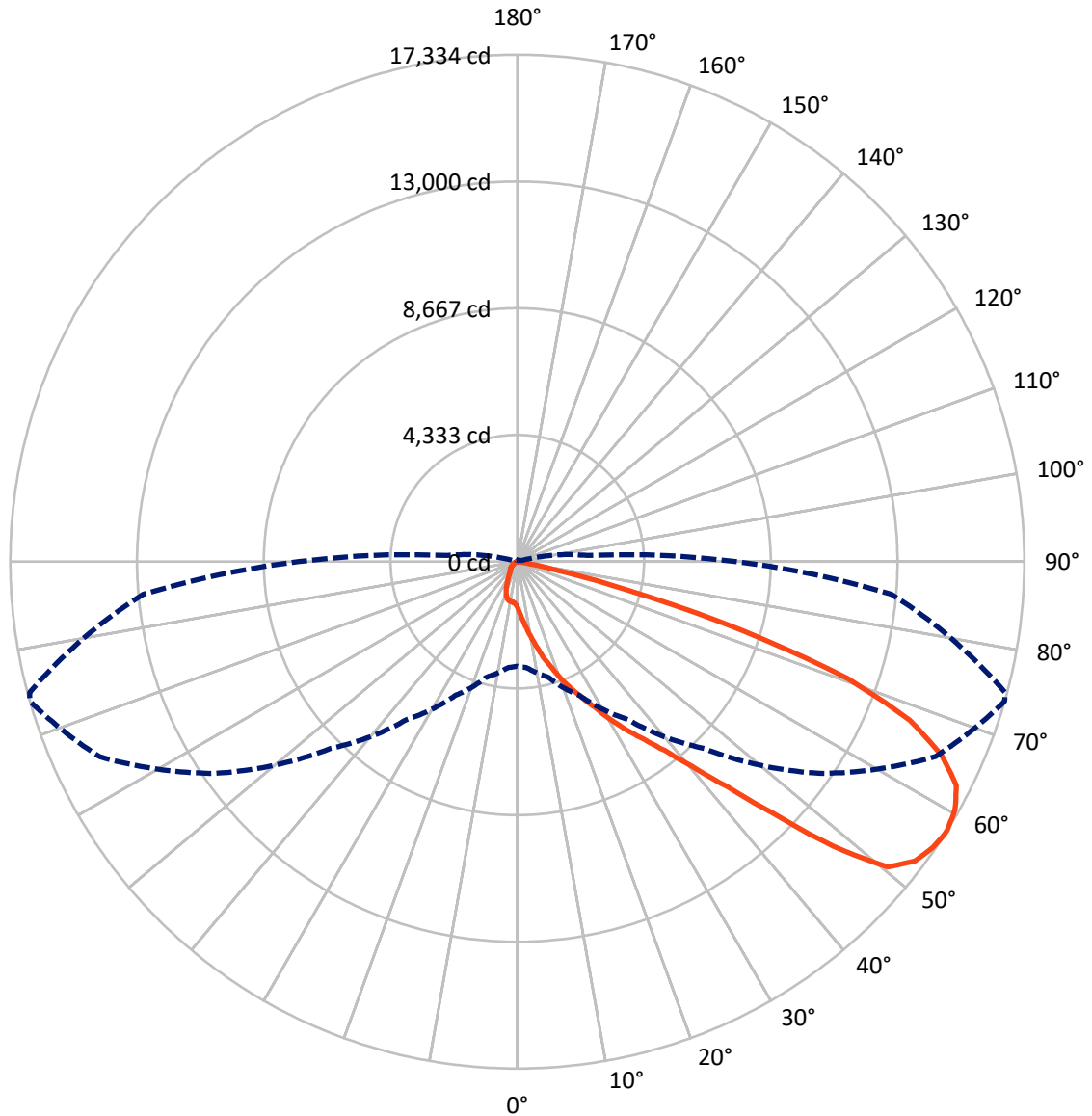
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.5 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	1081.3	0.0	1081.3
	% Fixture	5.8	0.0	5.8
Street Side	Lumens	17665.7	0.0	17665.7
	% Fixture	94.2	0.0	94.2
Total	Lumens	18747.0	0.0	18747.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	189.5	1.0
10°-20°	747.0	4.0
20°-30°	1598.3	8.5
30°-40°	2937.7	15.7
40°-50°	4503.5	24.0
50°-60°	4764.1	25.4
60°-70°	3111.1	16.6
70°-80°	850.1	4.5
80°-90°	45.8	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°	18747.0	100.0
0°-180°	18747.0	100.0

Coefficient of Utilization



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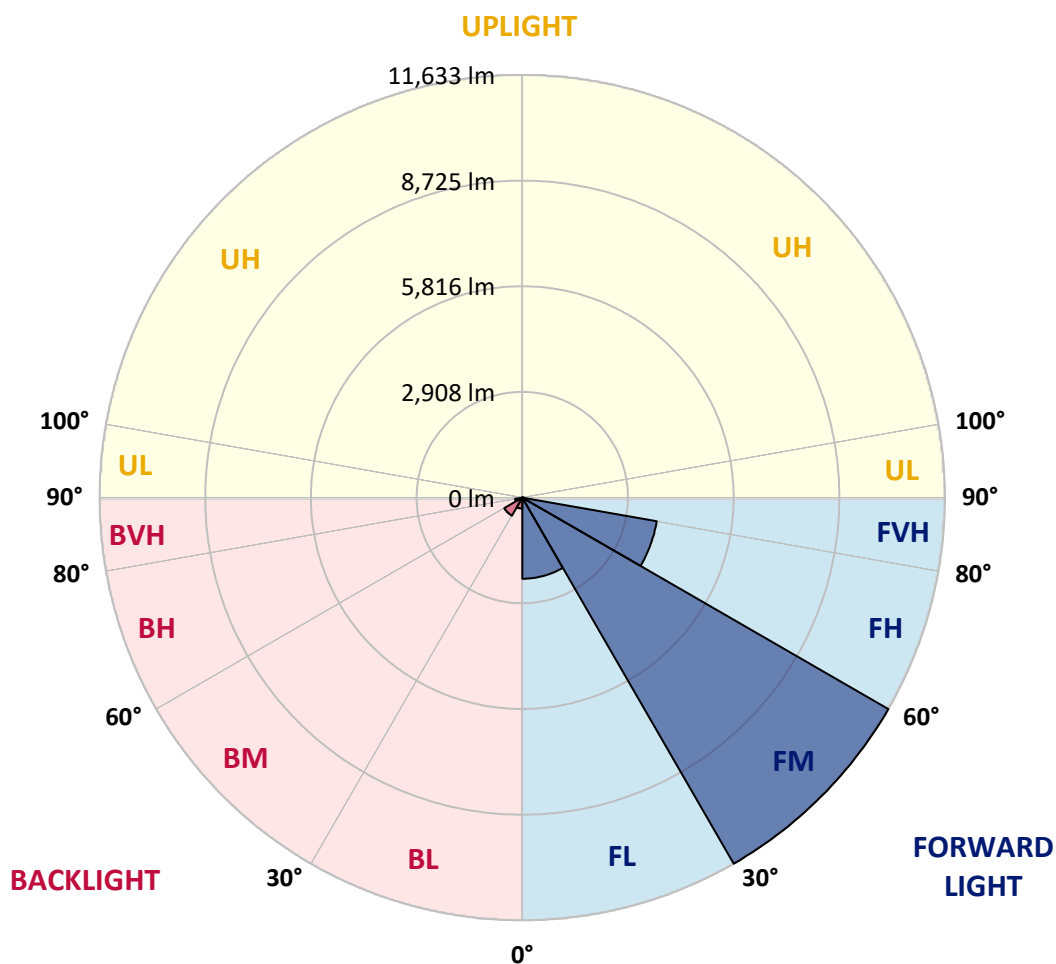
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2232.7	11.9			
FM (30°-60°)	11632.9	62.1			
FH (60°-80°)	3758.1	20.0			G2/5000
FVH (80°-90°)	42.0	0.2			G1/100
BL (0°-30°)	302.0	1.6	B1/500		
BM (30°-60°)	572.4	3.1	B1/1000		
BH (60°-80°)	203.0	1.1	B1/500		G1/500
BVH (80°-90°)	3.8	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	1570.0	1570.0	1570.0	1570.0	1570.0	1570.0	1570.0	1570.0	1570.0	1570.0	1570.0
2.5°	2297.5	2276.7	2235.3	2221.1	2160.3	2065.8	1982.9	1871.6	1783.6	1774.5	1668.4
5°	3076.7	3030.1	3010.6	2917.4	2771.2	2634.0	2398.4	2219.8	2014.0	1998.5	1784.9
7.5°	3827.4	3762.7	3743.2	3655.2	3484.4	3268.2	2962.7	2637.9	2311.7	2281.9	1941.5
10°	4371.0	4380.1	4345.1	4286.9	4148.4	3928.3	3551.7	3107.7	2643.0	2605.5	2117.5
12.5°	4760.6	4759.3	4765.8	4764.5	4690.7	4523.7	4127.7	3616.4	3008.1	2934.3	2319.5
15°	5014.3	5018.2	5037.6	5104.9	5112.7	5009.1	4679.0	4103.1	3431.3	3339.4	2538.2
17.5°	5270.6	5297.7	5328.8	5392.2	5449.2	5407.8	5174.8	4610.4	3814.4	3745.8	2772.5
20°	5693.8	5731.3	5713.2	5752.1	5781.8	5785.7	5605.8	5079.0	4279.1	4163.9	3040.4
22.5°	6370.8	6369.5	6322.9	6253.0	6194.7	6192.1	6029.0	5560.5	4701.1	4589.7	3309.6
25°	7226.3	7230.2	7139.6	6940.3	6795.3	6618.0	6430.3	5982.4	5152.8	5015.6	3593.1
27.5°	8207.4	8182.8	8045.6	7771.2	7483.9	7181.0	6910.5	6473.0	5631.7	5517.8	3918.0
30°	9088.9	9079.8	8919.3	8584.1	8206.1	7902.0	7509.8	7087.8	6251.7	6111.9	4281.7
32.5°	9909.5	9922.4	9699.8	9352.9	8987.9	8637.1	8223.0	7675.4	6860.0	6662.0	4677.8
35°	10550.2	10563.1	10332.7	10044.1	9668.7	9377.5	8982.7	8301.9	7460.6	7293.6	5133.4
37.5°	10891.9	10908.7	10775.4	10557.9	10323.7	10177.4	9809.8	9108.3	8190.6	8089.6	5671.8
40°	10956.6	10976.0	10917.8	10859.5	10846.6	10951.4	10844.0	10058.3	9202.8	9044.9	6474.3
42.5°	10762.5	10788.3	10814.2	10943.7	11207.7	11592.1	11966.2	11347.5	10506.2	10293.9	7455.4
45°	10252.5	10249.9	10352.1	10687.4	11278.9	12099.5	13138.9	12961.5	12282.0	12029.6	8841.7
47.5°	9380.1	9367.2	9588.5	10066.1	10987.7	12192.7	14095.4	14921.2	14548.4	14315.4	10331.4
50°	8050.8	8114.2	8462.4	9129.0	10264.1	11910.5	14390.5	16206.5	16408.4	16161.2	11535.2
52.5°	6493.7	6491.1	7037.3	7942.1	9192.4	11289.3	14184.7	16439.4	17012.8	16823.9	12128.0
55°	4805.9	4839.5	5407.8	6320.3	7801.0	10155.4	13512.9	16200.0	17243.2	17109.9	12518.9
57°	3575.0	3634.5	4090.1	5055.7	6589.5	9033.2	12618.5	15771.6	17333.8	17261.3	12843.8
57.5°	3336.8	3339.4	3783.4	4660.9	6234.8	8602.2	12362.3	15592.9	17331.2	17291.1	12896.8
60°	2054.1	2118.8	2425.6	3150.4	4563.8	6713.8	10644.7	14566.5	17196.6	17254.9	13123.3
62.5°	1229.6	1256.8	1456.1	1898.8	2942.0	4900.4	8710.9	13252.8	16845.9	17023.2	13107.8
65°	790.8	797.3	887.9	1149.4	1839.3	3312.2	6712.5	11517.1	15938.5	16264.7	12595.2
67.5°	610.9	621.3	657.5	754.6	1066.5	2063.2	4747.6	9664.9	14470.7	14891.4	11352.7
70°	542.3	547.5	560.5	591.5	705.4	1164.9	2953.7	7549.9	11999.8	12118.9	8884.4
72.5°	442.7	456.9	497.0	507.4	559.2	727.4	1643.8	5067.3	8062.5	8092.2	4970.3
75°	343.0	345.6	405.1	434.9	471.1	500.9	733.9	2555.0	3872.7	3665.6	1915.6
77.5°	256.3	267.9	295.1	332.6	384.4	358.5	328.8	963.0	1202.4	1180.4	556.6
80°	164.4	170.9	205.8	249.8	299.0	234.3	185.1	282.2	264.0	271.8	133.3
82.5°	82.8	84.1	132.0	203.2	190.3	117.8	116.5	115.2	98.4	97.1	62.1
85°	9.1	19.4	85.4	116.5	85.4	38.8	54.4	53.1	51.8	53.1	36.2
87.5°	1.3	1.3	14.2	16.8	11.6	12.9	15.5	16.8	20.7	19.4	15.5
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°	1570.0	1570.0	1570.0	1570.0	1570.0	1570.0	1570.0	1570.0	1570.0	1570.0	1570.0
2.5°	1616.6	1564.9	1469.1	1377.2	1308.6	1264.6	1207.6	1186.9	1157.1	1153.3	1139.0
5°	1686.5	1588.2	1421.2	1289.2	1183.0	1102.8	1032.9	974.6	928.0	917.7	922.9
7.5°	1786.2	1639.9	1406.9	1227.0	1079.5	942.3	831.0	762.4	713.2	695.1	697.7
10°	1898.8	1708.5	1404.4	1161.0	935.8	767.5	645.9	585.0	556.6	546.2	534.6
12.5°	2032.1	1787.5	1397.9	1058.8	777.9	612.2	525.5	489.3	462.1	454.3	454.3
15°	2182.3	1871.6	1366.8	931.9	631.6	506.1	447.8	419.4	410.3	402.5	402.5
17.5°	2338.9	1954.5	1302.1	775.3	524.2	433.6	397.4	380.5	367.6	358.5	358.5
20°	2517.5	2036.0	1198.6	636.8	442.7	387.0	358.5	339.1	328.8	321.0	318.4
22.5°	2687.1	2102.0	1066.5	522.9	385.7	348.2	322.3	301.6	291.2	287.3	287.3
25°	2863.1	2142.1	907.3	432.3	352.1	315.8	287.3	270.5	261.5	258.9	257.6
27.5°	3033.9	2165.4	767.5	377.9	321.0	286.0	258.9	245.9	236.9	234.3	235.6
30°	3241.0	2169.3	631.6	339.1	293.8	257.6	233.0	221.3	216.2	213.6	212.3
32.5°	3450.7	2164.1	530.7	315.8	267.9	233.0	212.3	203.2	199.3	195.4	195.4
35°	3686.3	2137.0	451.7	292.5	243.3	212.3	194.2	186.4	181.2	177.3	176.0
37.5°	3978.8	2122.7	406.4	266.6	221.3	192.9	176.0	168.3	164.4	159.2	157.9
40°	4439.6	2186.1	392.2	243.3	199.3	174.7	159.2	150.1	145.0	139.8	138.5
42.5°	5014.3	2297.5	368.9	220.0	179.9	157.9	142.4	132.0	123.0	116.5	113.9
45°	5758.5	2443.7	332.6	195.4	163.1	139.8	125.6	112.6	101.0	95.8	94.5
47.5°	6539.0	2584.8	300.3	176.0	145.0	124.3	108.7	94.5	84.1	80.2	79.0
50°	7017.9	2613.3	279.6	154.0	126.8	107.4	91.9	79.0	72.5	68.6	68.6
52.5°	7236.7	2568.0	251.1	134.6	110.0	94.5	79.0	68.6	64.7	62.1	60.8
55°	7389.4	2498.1	213.6	116.5	94.5	80.2	69.9	62.1	57.0	54.4	53.1
57°	7478.7	2403.6	185.1	102.3	81.5	69.9	62.1	55.7	50.5	45.3	45.3
57.5°	7482.6	2367.4	177.3	101.0	77.7	67.3	60.8	54.4	47.9	42.7	41.4
60°	7367.4	2118.8	142.4	85.4	62.1	57.0	50.5	42.7	33.7	28.5	27.2
62.5°	6997.2	1803.0	117.8	72.5	50.5	44.0	36.2	32.4	23.3	16.8	16.8
65°	6436.8	1462.6	101.0	58.2	41.4	32.4	24.6	23.3	14.2	7.8	6.5
67.5°	5626.5	1139.0	85.4	47.9	34.9	23.3	16.8	15.5	7.8	2.6	0.0
70°	4286.9	776.6	71.2	38.8	25.9	16.8	11.6	9.1	5.2	1.3	0.0
72.5°	2470.9	427.1	59.5	29.8	19.4	12.9	9.1	5.2	5.2	0.0	0.0
75°	882.7	183.8	45.3	22.0	15.5	10.4	6.5	2.6	3.9	1.3	0.0
77.5°	280.9	98.4	29.8	16.8	12.9	7.8	5.2	2.6	2.6	1.3	0.0
80°	82.8	51.8	18.1	14.2	9.1	6.5	3.9	1.3	2.6	1.3	0.0
82.5°	45.3	25.9	14.2	10.4	9.1	5.2	3.9	1.3	1.3	1.3	0.0
85°	23.3	15.5	11.6	10.4	9.1	5.2	3.9	1.3	0.0	1.3	1.3
87.5°	12.9	11.6	11.6	10.4	9.1	6.5	3.9	1.3	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)