

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: P454992

Luminaire Tested: **GALN-SA6A-827-U-T2-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P454992
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-11)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA6A-827-U-T2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14903 lumens
Efficiency: N/A
Efficacy: 81.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G3

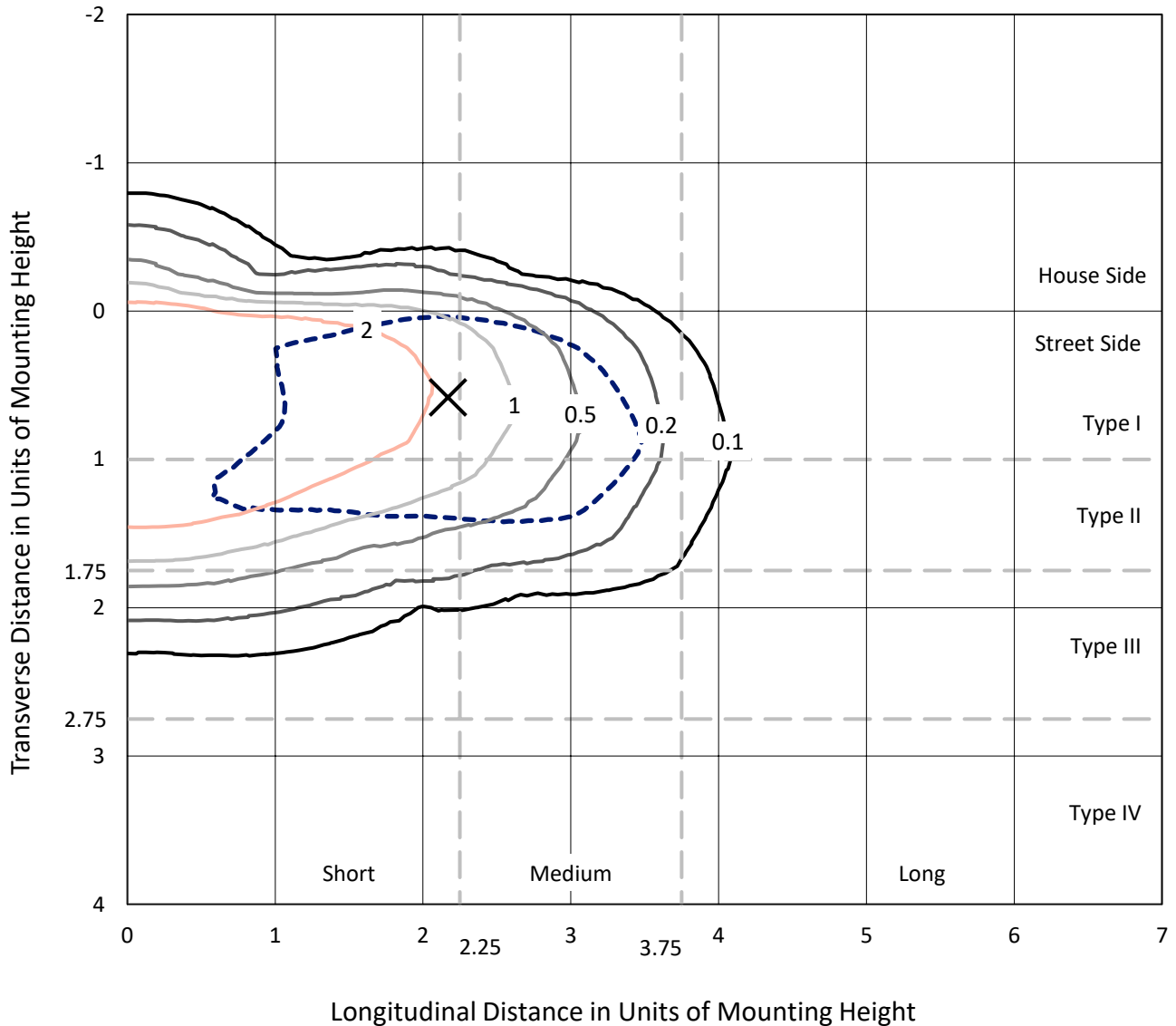
Input Watts (W): 182
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

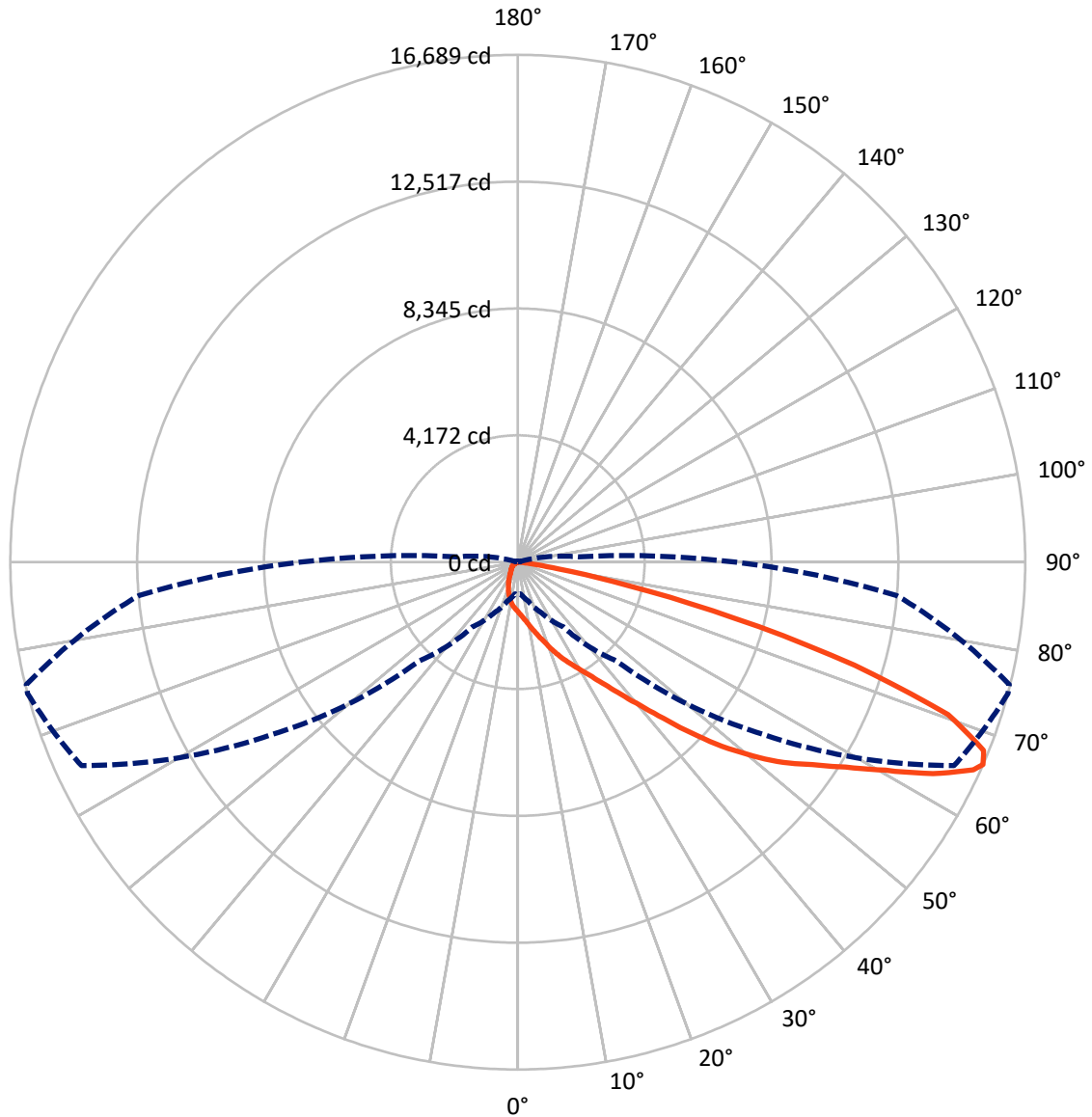
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	920.0	0.0	920.0
	% Fixture	6.2	0.0	6.2
Street Side	Lumens	13983.0	0.0	13983.0
	% Fixture	93.8	0.0	93.8
Total	Lumens	14903.0	0.0	14903.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	157.2	1.1
10°-20°	462.6	3.1
20°-30°	798.9	5.4
30°-40°	1441.0	9.7
40°-50°	2603.2	17.5
50°-60°	4058.4	27.2
60°-70°	3855.3	25.9
70°-80°	1444.9	9.7
80°-90°	81.5	0.5
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°	14903.0	100.0
0°-180°	14903.0	100.0

Coefficient of Utilization



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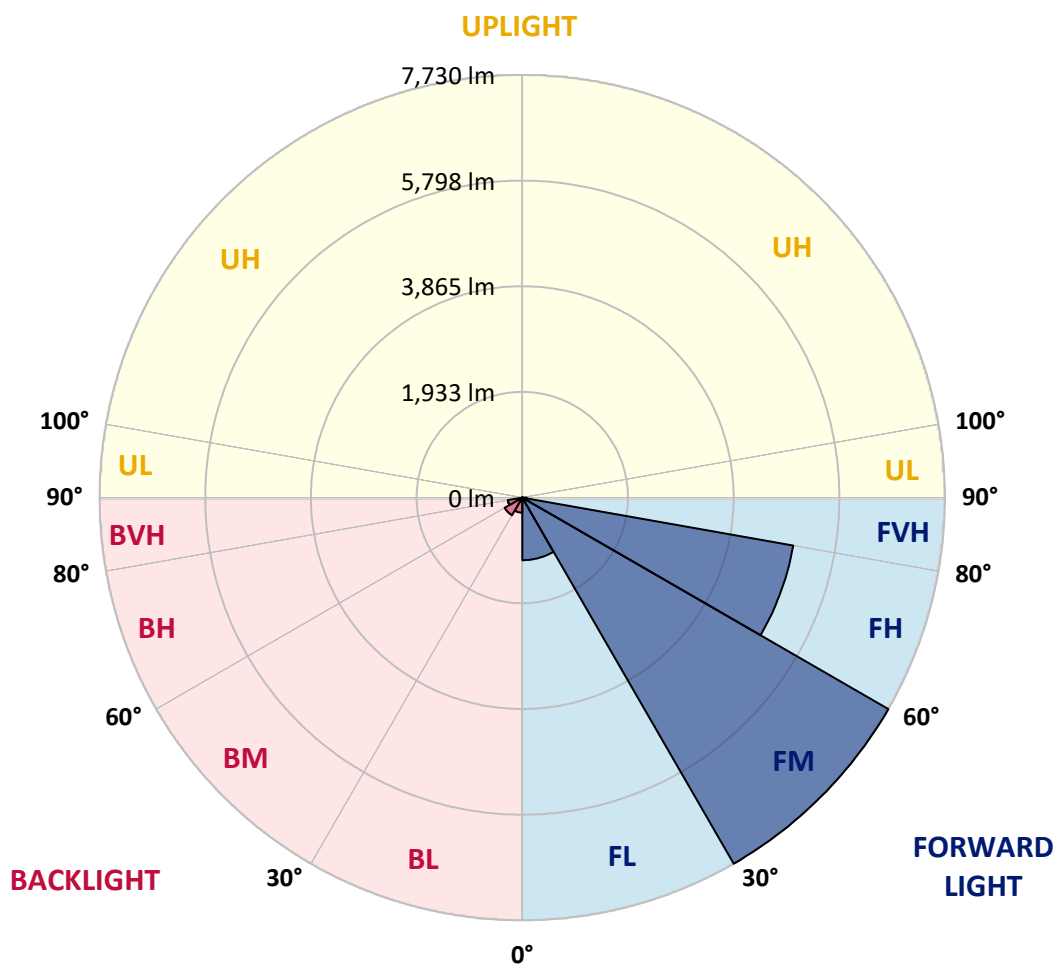
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1143.9	7.7			
FM (30°-60°)	7730.2	51.9			
FH (60°-80°)	5031.5	33.8			G3/7500
FVH (80°-90°)	77.3	0.5			G1/100
BL (0°-30°)	274.8	1.8	B1/500		
BM (30°-60°)	372.4	2.5	B1/1000		
BH (60°-80°)	268.7	1.8	B1/500		G1/500
BVH (80°-90°)	4.2	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°	75°	76°	85°
0°	1629.8	1629.8	1629.8	1629.8	1629.8	1629.8	1629.8	1629.8	1629.8	1629.8	1629.8
2.5°	1947.2	1922.9	1930.6	1919.6	1894.3	1856.8	1823.7	1776.4	1729.0	1721.3	1668.4
5°	2203.9	2197.3	2188.5	2156.5	2138.9	2081.6	2013.3	1931.7	1833.7	1816.0	1720.2
7.5°	2379.1	2375.8	2380.2	2363.7	2348.3	2296.5	2223.7	2112.4	1960.4	1950.5	1790.7
10°	2436.4	2445.2	2461.8	2488.2	2512.5	2495.9	2440.8	2302.0	2124.6	2095.9	1871.1
12.5°	2403.4	2413.3	2453.0	2523.5	2601.7	2646.9	2624.9	2523.5	2298.7	2275.5	1961.5
15°	2318.5	2330.6	2386.8	2495.9	2635.9	2763.7	2818.8	2746.1	2501.4	2464.0	2070.6
17.5°	2192.9	2210.5	2291.0	2435.3	2627.1	2847.4	3002.8	2978.6	2717.4	2682.2	2189.6
20°	2098.1	2111.3	2179.7	2345.0	2589.6	2893.7	3178.0	3246.4	2984.1	2923.5	2329.5
22.5°	2160.9	2165.3	2188.5	2287.7	2522.4	2905.9	3332.3	3525.2	3267.3	3213.3	2475.0
25°	2468.4	2424.3	2401.2	2379.1	2508.0	2894.8	3472.3	3816.1	3549.4	3492.1	2619.3
27.5°	2953.2	2933.4	2816.6	2660.1	2630.4	2909.2	3564.8	4091.6	3815.0	3753.3	2760.4
30°	3481.1	3446.9	3375.3	3146.1	2915.8	3010.5	3632.0	4359.3	4129.0	4047.5	2889.3
32.5°	3965.9	3988.0	3881.1	3645.3	3378.6	3226.5	3719.1	4651.3	4489.4	4388.0	3039.2
35°	4531.2	4575.3	4411.1	4185.2	3873.4	3616.6	3888.8	4980.8	4946.7	4818.8	3270.6
37.5°	5105.4	5131.8	5031.5	4714.2	4433.2	4112.5	4208.4	5387.5	5509.8	5400.7	3547.2
40°	5588.0	5624.4	5550.5	5268.4	4968.7	4686.6	4672.3	5830.4	6179.8	6067.4	3959.3
42.5°	5957.2	5984.7	5986.9	5787.5	5517.5	5389.7	5264.0	6395.7	7019.4	6889.4	4437.6
45°	6423.3	6463.0	6439.8	6304.3	6102.6	6079.5	6014.5	7079.0	8024.4	7860.2	5058.0
47.5°	7144.0	7170.4	7113.1	6953.3	6748.4	6784.7	6746.2	7844.8	9049.2	8908.2	5700.4
50°	7644.3	7688.3	7769.9	7833.8	7685.0	7550.6	7436.0	8560.0	10022.3	9895.5	6357.2
52.5°	7638.7	7711.5	7969.3	8291.1	8616.2	8575.4	8245.9	9350.1	10951.2	10794.7	6974.3
55°	7124.1	7265.2	7644.3	8215.1	9115.4	9563.9	9414.0	10264.7	11753.4	11647.7	7689.4
57.5°	6061.9	6147.8	6674.5	7472.4	8836.6	10028.9	10767.2	11504.4	12715.5	12665.9	8800.2
60°	4077.2	4115.8	4793.5	5779.8	7523.0	9565.0	11759.0	13004.2	13900.1	13875.8	10097.2
62.5°	2336.1	2352.7	2844.1	3676.1	5353.3	8106.0	11842.7	14854.3	15320.5	15333.7	11598.1
65°	1257.3	1266.1	1662.8	2157.6	3257.4	5777.5	10649.3	15868.1	16468.7	16494.1	12528.1
66°	1085.4	1043.6	1323.4	1839.2	2591.8	4598.5	9894.4	15831.8	16689.1	16661.5	12495.1
67.5°	825.4	862.8	1056.8	1413.8	1920.7	3269.5	8168.8	15127.6	16521.6	16435.6	11987.1
70°	590.6	606.1	752.6	1008.3	1308.0	1794.0	5220.0	12564.5	15016.3	14900.6	10443.2
72.5°	381.3	397.8	533.3	729.5	945.5	979.6	2922.4	9077.9	11577.1	11560.6	7864.6
75°	272.2	287.6	352.6	522.3	710.8	606.1	1407.2	6118.1	7360.0	7310.4	4865.1
77.5°	197.2	205.0	235.8	341.6	508.0	434.2	652.4	3267.3	3664.0	3837.0	2149.9
80°	113.5	120.1	164.2	208.3	343.8	296.4	311.9	1311.3	1352.1	1287.1	672.2
82.5°	56.2	63.9	98.1	142.2	214.9	199.5	143.3	394.5	416.5	405.5	169.7
85°	13.2	16.5	55.1	93.7	104.7	89.3	69.4	115.7	143.3	139.9	65.0
87.5°	1.1	2.2	19.8	16.5	17.6	29.8	24.2	29.8	46.3	43.0	23.1
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°	1629.8	1629.8	1629.8	1629.8	1629.8	1629.8	1629.8	1629.8	1629.8	1629.8	1629.8
2.5°	1644.1	1623.2	1562.6	1503.1	1453.5	1401.7	1354.3	1326.8	1315.7	1303.6	1309.1
5°	1667.3	1616.6	1494.2	1388.5	1284.9	1196.7	1126.2	1081.0	1059.0	1055.7	1050.2
7.5°	1698.1	1611.1	1421.5	1256.2	1120.7	1022.6	942.2	877.2	857.3	839.7	825.4
10°	1735.6	1601.1	1331.2	1117.4	973.0	849.6	743.8	666.7	627.0	616.0	623.7
12.5°	1775.2	1582.4	1236.4	989.6	823.2	665.6	567.5	528.9	517.9	513.5	514.6
15°	1814.9	1559.3	1137.2	866.1	655.7	531.1	486.0	476.0	471.6	469.4	467.2
17.5°	1851.3	1521.8	1025.9	746.0	531.1	454.0	437.5	428.7	419.8	416.5	411.0
20°	1894.3	1478.8	925.6	611.6	449.6	411.0	391.2	374.7	361.4	352.6	351.5
22.5°	1935.0	1423.7	821.0	506.9	409.9	369.2	337.2	319.6	304.1	293.1	296.4
25°	1957.1	1356.5	727.3	441.9	373.6	327.3	292.0	270.0	253.4	247.9	246.8
27.5°	1957.1	1273.9	635.8	404.4	340.5	289.8	253.4	232.5	221.5	213.8	214.9
30°	1941.6	1182.4	551.0	375.8	311.9	256.8	222.6	203.9	195.0	189.5	188.4
32.5°	1929.5	1095.3	478.2	348.2	282.1	228.1	198.4	184.0	175.2	169.7	169.7
35°	1948.3	1020.4	422.0	320.7	254.6	206.1	179.6	166.4	157.6	153.2	152.1
37.5°	1997.8	952.1	379.1	290.9	229.2	187.3	166.4	151.0	142.2	136.6	134.4
40°	2120.2	913.5	347.1	263.4	205.0	171.9	151.0	136.6	125.6	120.1	119.0
42.5°	2316.3	914.6	316.3	238.0	186.2	158.7	137.7	121.2	109.1	103.6	102.5
45°	2611.6	956.5	292.0	213.8	169.7	144.4	123.4	105.8	94.8	89.3	89.3
47.5°	2965.4	1038.0	271.1	192.8	154.3	131.1	109.1	91.5	80.4	76.0	76.0
50°	3348.8	1143.8	250.1	170.8	141.1	116.8	93.7	79.3	70.5	67.2	67.2
52.5°	3740.0	1271.7	229.2	153.2	126.7	101.4	80.4	70.5	62.8	60.6	59.5
55°	4253.5	1434.7	207.2	134.4	111.3	87.1	71.6	61.7	52.9	49.6	48.5
57.5°	5043.6	1680.5	182.9	117.9	91.5	72.7	61.7	51.8	41.9	36.4	35.3
60°	5996.8	1980.2	157.6	103.6	73.8	59.5	49.6	39.7	30.9	24.2	23.1
62.5°	6889.4	2170.8	133.3	87.1	58.4	45.2	35.3	29.8	22.0	15.4	14.3
65°	7283.9	2106.9	110.2	70.5	46.3	32.0	23.1	20.9	13.2	6.6	5.5
66°	7152.8	2012.2	101.4	63.9	41.9	27.5	19.8	17.6	9.9	3.3	3.3
67.5°	6766.0	1788.5	88.2	55.1	36.4	22.0	15.4	13.2	5.5	1.1	0.0
70°	5797.4	1446.9	69.4	40.8	26.4	15.4	8.8	6.6	3.3	0.0	0.0
72.5°	4453.0	1077.7	55.1	30.9	18.7	8.8	4.4	2.2	3.3	0.0	0.0
75°	2728.4	616.0	43.0	23.1	12.1	5.5	3.3	0.0	3.3	1.1	0.0
77.5°	1211.0	276.6	28.7	15.4	8.8	4.4	2.2	0.0	2.2	1.1	0.0
80°	306.3	90.4	16.5	11.0	6.6	3.3	1.1	0.0	2.2	2.2	1.1
82.5°	83.7	33.1	12.1	8.8	5.5	3.3	1.1	0.0	2.2	2.2	2.2
85°	33.1	15.4	11.0	8.8	6.6	3.3	1.1	0.0	2.2	2.2	2.2
87.5°	15.4	11.0	11.0	9.9	7.7	3.3	1.1	0.0	2.2	1.1	2.2
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)