

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: P453919

Luminaire Tested: **GALN-SA5A-727-U-T2-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P453919
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-SA5A-727-U-T2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 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: 14318 lumens
Efficiency: N/A
Efficacy: 93.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

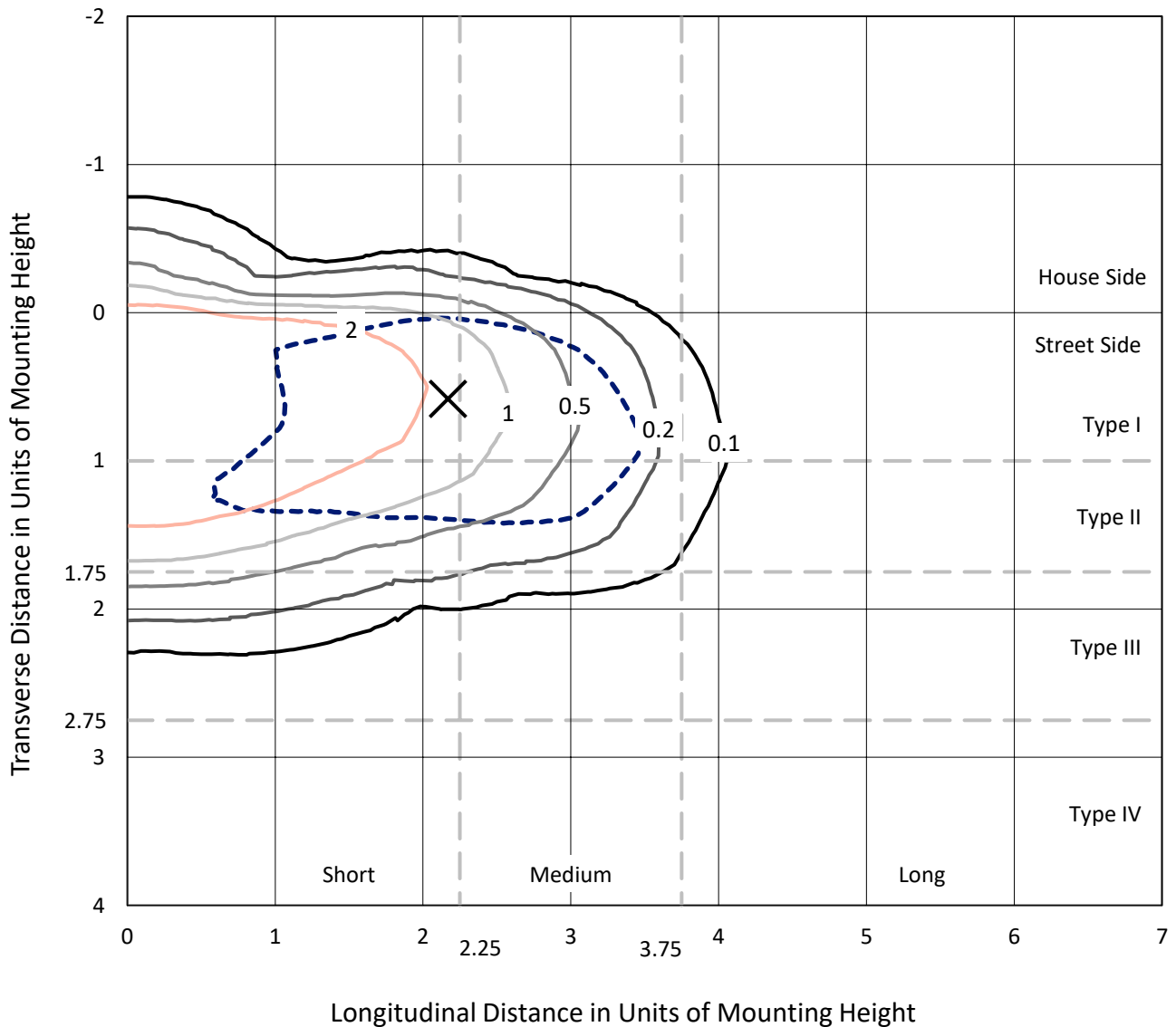
Input Watts (W): 154
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

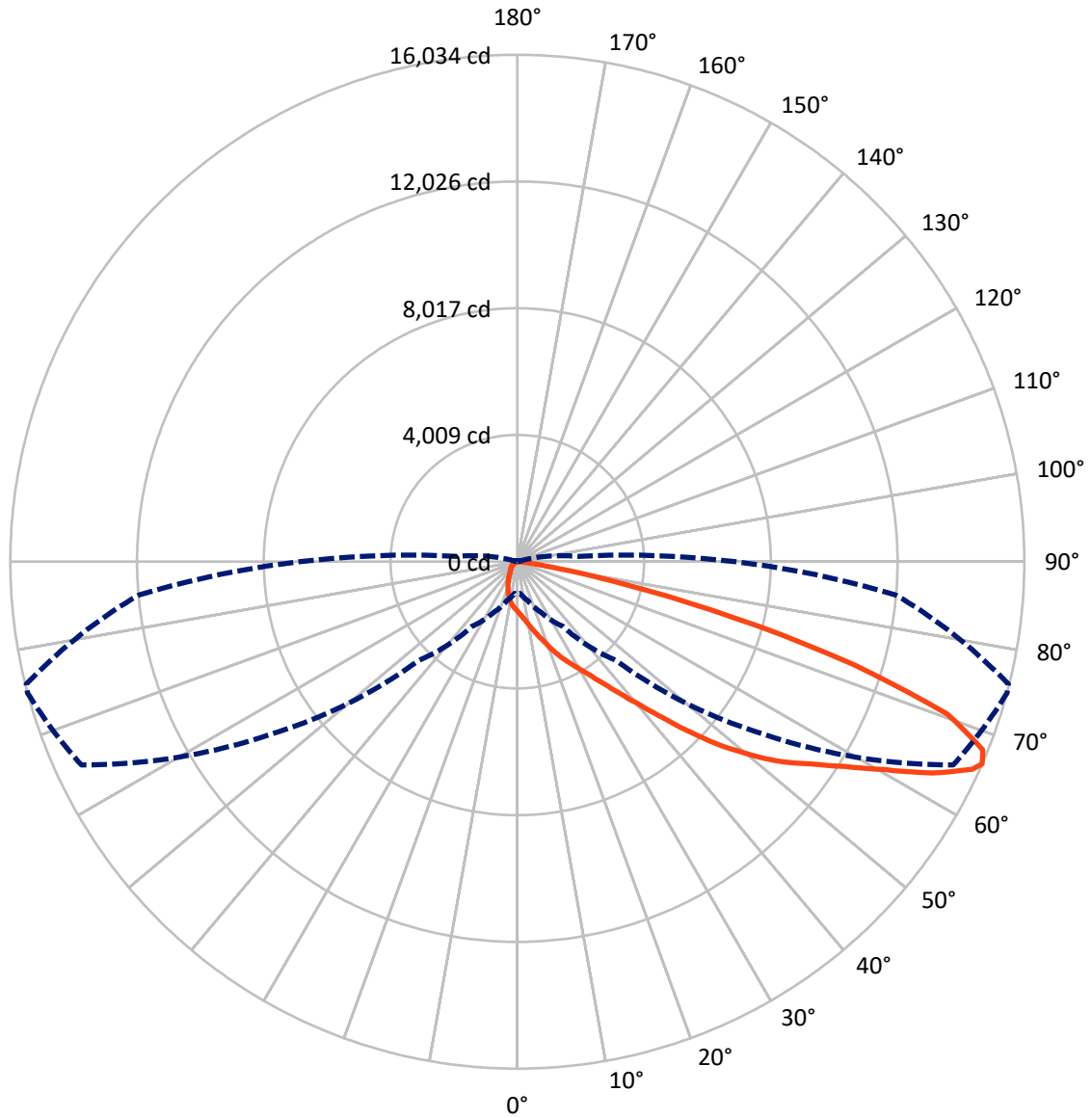
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.3 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	883.9	0.0	883.9
	% Fixture	6.2	0.0	6.2
Street Side	Lumens	13434.1	0.0	13434.1
	% Fixture	93.8	0.0	93.8
Total	Lumens	14318.0	0.0	14318.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	151.0	1.1
10°-20°	444.5	3.1
20°-30°	767.5	5.4
30°-40°	1384.4	9.7
40°-50°	2501.0	17.5
50°-60°	3899.1	27.2
60°-70°	3704.0	25.9
70°-80°	1388.2	9.7
80°-90°	78.3	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°	14318.0	100.0
0°-180°	14318.0	100.0

Coefficient of Utilization



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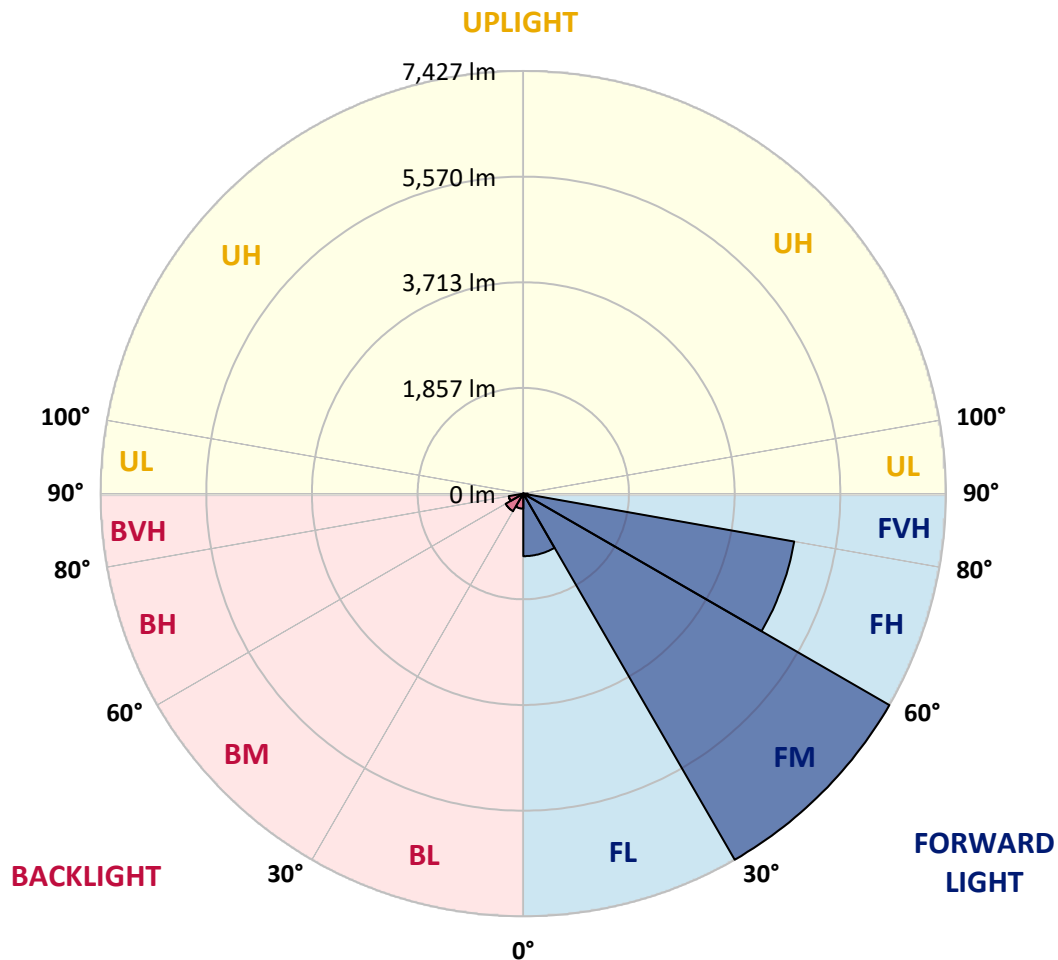
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1099.0	7.7			
FM (30°-60°)	7426.7	51.9			
FH (60°-80°)	4834.0	33.8			G2/5000
FVH (80°-90°)	74.3	0.5			G1/100
BL (0°-30°)	264.0	1.8	B1/500		
BM (30°-60°)	357.8	2.5	B1/1000		
BH (60°-80°)	258.1	1.8	B1/500		G1/500
BVH (80°-90°)	4.0	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°	75°	76°	85°
0°	1565.8	1565.8	1565.8	1565.8	1565.8	1565.8	1565.8	1565.8	1565.8	1565.8	1565.8
2.5°	1870.7	1847.4	1854.8	1844.3	1819.9	1783.9	1752.1	1706.6	1661.1	1653.7	1602.9
5°	2117.4	2111.0	2102.6	2071.9	2054.9	1999.9	1934.2	1855.9	1761.7	1744.7	1652.6
7.5°	2285.7	2282.6	2286.8	2270.9	2256.1	2206.3	2136.5	2029.5	1883.4	1873.9	1720.4
10°	2340.8	2349.3	2365.1	2390.5	2413.8	2398.0	2345.0	2211.6	2041.2	2013.6	1797.7
12.5°	2309.0	2318.5	2356.7	2424.4	2499.6	2543.0	2521.8	2424.4	2208.4	2186.2	1884.5
15°	2227.5	2239.1	2293.1	2398.0	2532.4	2655.2	2708.2	2638.3	2403.2	2367.2	1989.3
17.5°	2106.8	2123.7	2201.0	2339.7	2523.9	2735.7	2885.0	2861.7	2610.8	2576.9	2103.6
20°	2015.8	2028.5	2094.1	2252.9	2487.9	2780.1	3053.3	3118.9	2867.0	2808.7	2238.1
22.5°	2076.1	2080.3	2102.6	2197.9	2423.4	2791.8	3201.5	3386.8	3139.0	3087.2	2377.8
25°	2371.5	2329.1	2306.9	2285.7	2409.6	2781.2	3336.0	3666.3	3410.1	3355.0	2516.5
27.5°	2837.3	2818.3	2706.0	2555.7	2527.1	2795.0	3424.9	3930.9	3665.2	3605.9	2652.0
30°	3344.4	3311.6	3242.8	3022.6	2801.3	2892.4	3489.5	4188.2	3966.9	3888.6	2775.9
32.5°	3810.3	3831.4	3728.7	3502.2	3246.0	3099.9	3573.1	4468.8	4313.1	4215.7	2919.9
35°	4353.4	4395.7	4238.0	4020.9	3721.3	3474.6	3736.1	4785.3	4752.5	4629.7	3142.2
37.5°	4904.9	4930.4	4834.0	4529.1	4259.1	3951.1	4043.2	5176.0	5293.5	5188.7	3407.9
40°	5368.7	5403.6	5332.7	5061.6	4773.7	4502.6	4488.9	5601.6	5937.2	5829.2	3803.9
42.5°	5723.3	5749.8	5751.9	5560.3	5300.9	5178.1	5057.4	6144.7	6743.9	6619.0	4263.4
45°	6171.2	6209.3	6187.0	6056.8	5863.1	5840.8	5778.4	6801.1	7709.4	7551.7	4859.4
47.5°	6863.5	6889.0	6833.9	6680.4	6483.5	6518.4	6481.4	7536.9	8694.0	8558.5	5476.6
50°	7344.2	7386.5	7464.9	7526.3	7383.4	7254.2	7144.1	8224.0	9628.9	9507.1	6107.6
52.5°	7338.9	7408.8	7656.5	7965.6	8278.0	8238.8	7922.2	8983.1	10521.3	10371.0	6700.5
55°	6844.5	6980.0	7344.2	7892.6	8757.6	9188.4	9044.5	9861.8	11292.1	11190.4	7387.6
57.5°	5823.9	5906.5	6412.5	7179.0	8489.7	9635.2	10344.5	11052.8	12216.3	12168.7	8454.8
60°	3917.2	3954.2	4605.3	5552.9	7227.7	9189.5	11297.4	12493.7	13354.4	13331.1	9700.9
62.5°	2244.4	2260.3	2732.5	3531.8	5143.2	7787.8	11377.8	14271.3	14719.1	14731.8	11142.8
65°	1208.0	1216.4	1597.6	2072.9	3129.5	5550.8	10231.3	15245.3	15822.2	15846.6	12036.3
66°	1042.8	1002.6	1271.5	1767.0	2490.1	4417.9	9506.1	15210.3	16034.0	16007.5	12004.6
67.5°	793.0	829.0	1015.3	1358.3	1845.3	3141.2	7848.1	14533.8	15873.1	15790.5	11516.5
70°	567.5	582.3	723.1	968.7	1256.7	1723.6	5015.1	12071.3	14426.9	14315.7	10033.3
72.5°	366.3	382.2	512.4	700.9	908.4	941.2	2807.7	8721.6	11122.7	11106.8	7555.9
75°	261.5	276.3	338.8	501.8	682.9	582.3	1352.0	5877.9	7071.0	7023.4	4674.2
77.5°	189.5	196.9	226.6	328.2	488.1	417.1	626.7	3139.0	3520.2	3686.4	2065.5
80°	109.0	115.4	157.7	200.1	330.3	284.8	299.6	1259.9	1299.0	1236.6	645.8
82.5°	54.0	61.4	94.2	136.6	206.4	191.6	137.6	379.0	400.2	389.6	163.0
85°	12.7	15.9	52.9	90.0	100.6	85.8	66.7	111.2	137.6	134.5	62.5
87.5°	1.1	2.1	19.1	15.9	16.9	28.6	23.3	28.6	44.5	41.3	22.2
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°	1565.8	1565.8	1565.8	1565.8	1565.8	1565.8	1565.8	1565.8	1565.8	1565.8	1565.8
2.5°	1579.6	1559.5	1501.2	1444.1	1396.4	1346.7	1301.1	1274.7	1264.1	1252.4	1257.7
5°	1601.8	1553.1	1435.6	1334.0	1234.4	1149.7	1082.0	1038.6	1017.4	1014.2	1008.9
7.5°	1631.5	1547.8	1365.7	1206.9	1076.7	982.5	905.2	842.7	823.7	806.7	793.0
10°	1667.4	1538.3	1278.9	1073.5	934.8	816.3	714.6	640.5	602.4	591.8	599.2
12.5°	1705.6	1520.3	1187.9	950.7	790.8	639.5	545.2	508.2	497.6	493.4	494.4
15°	1743.7	1498.1	1092.6	832.1	629.9	510.3	466.9	457.4	453.1	451.0	448.9
17.5°	1778.6	1462.1	985.6	716.7	510.3	436.2	420.3	411.8	403.4	400.2	394.9
20°	1819.9	1420.8	889.3	587.6	431.9	394.9	375.8	360.0	347.3	338.8	337.7
22.5°	1859.1	1367.8	788.7	487.0	393.8	354.7	324.0	307.0	292.2	281.6	284.8
25°	1880.2	1303.3	698.7	424.5	358.9	314.4	280.6	259.4	243.5	238.2	237.1
27.5°	1880.2	1223.9	610.9	388.5	327.1	278.4	243.5	223.4	212.8	205.4	206.4
30°	1865.4	1136.0	529.3	361.0	299.6	246.7	213.9	195.9	187.4	182.1	181.0
32.5°	1853.8	1052.3	459.5	334.5	271.0	219.2	190.6	176.8	168.3	163.0	163.0
35°	1871.8	980.4	405.5	308.1	244.6	198.0	172.6	159.9	151.4	147.2	146.1
37.5°	1919.4	914.7	364.2	279.5	220.2	180.0	159.9	145.0	136.6	131.3	129.2
40°	2036.9	877.7	333.5	253.0	196.9	165.2	145.0	131.3	120.7	115.4	114.3
42.5°	2225.4	878.7	303.8	228.7	178.9	152.5	132.3	116.5	104.8	99.5	98.5
45°	2509.1	919.0	280.6	205.4	163.0	138.7	118.6	101.6	91.0	85.8	85.8
47.5°	2849.0	997.3	260.4	185.3	148.2	126.0	104.8	87.9	77.3	73.1	73.1
50°	3217.4	1098.9	240.3	164.1	135.5	112.2	90.0	76.2	67.8	64.6	64.6
52.5°	3593.2	1221.7	220.2	147.2	121.8	97.4	77.3	67.8	60.3	58.2	57.2
55°	4086.6	1378.4	199.0	129.2	106.9	83.6	68.8	59.3	50.8	47.6	46.6
57.5°	4845.7	1614.5	175.7	113.3	87.9	69.9	59.3	49.8	40.2	34.9	33.9
60°	5761.4	1902.5	151.4	99.5	70.9	57.2	47.6	38.1	29.6	23.3	22.2
62.5°	6619.0	2085.6	128.1	83.6	56.1	43.4	33.9	28.6	21.2	14.8	13.8
65°	6998.0	2024.2	105.9	67.8	44.5	30.7	22.2	20.1	12.7	6.4	5.3
66°	6872.0	1933.2	97.4	61.4	40.2	26.5	19.1	16.9	9.5	3.2	3.2
67.5°	6500.4	1718.3	84.7	52.9	34.9	21.2	14.8	12.7	5.3	1.1	0.0
70°	5569.8	1390.1	66.7	39.2	25.4	14.8	8.5	6.4	3.2	0.0	0.0
72.5°	4278.2	1035.4	52.9	29.6	18.0	8.5	4.2	2.1	3.2	0.0	0.0
75°	2621.3	591.8	41.3	22.2	11.6	5.3	3.2	0.0	3.2	1.1	0.0
77.5°	1163.5	265.7	27.5	14.8	8.5	4.2	2.1	0.0	2.1	1.1	0.0
80°	294.3	86.8	15.9	10.6	6.4	3.2	1.1	0.0	2.1	2.1	1.1
82.5°	80.5	31.8	11.6	8.5	5.3	3.2	1.1	0.0	2.1	2.1	2.1
85°	31.8	14.8	10.6	8.5	6.4	3.2	1.1	0.0	2.1	2.1	2.1
87.5°	14.8	10.6	10.6	9.5	7.4	3.2	1.1	0.0	2.1	1.1	2.1
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)