

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: STREETWORKS

Report Number: P321918

Luminaire Tested: **GAN-SA4B-740-U-T2-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P321918  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-13)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-SA4B-740-U-T2-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 70 CRI, 4000K, 800mA 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: 16400 lumens  
Efficiency: N/A  
Efficacy: 95.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B1 - U0 - G3

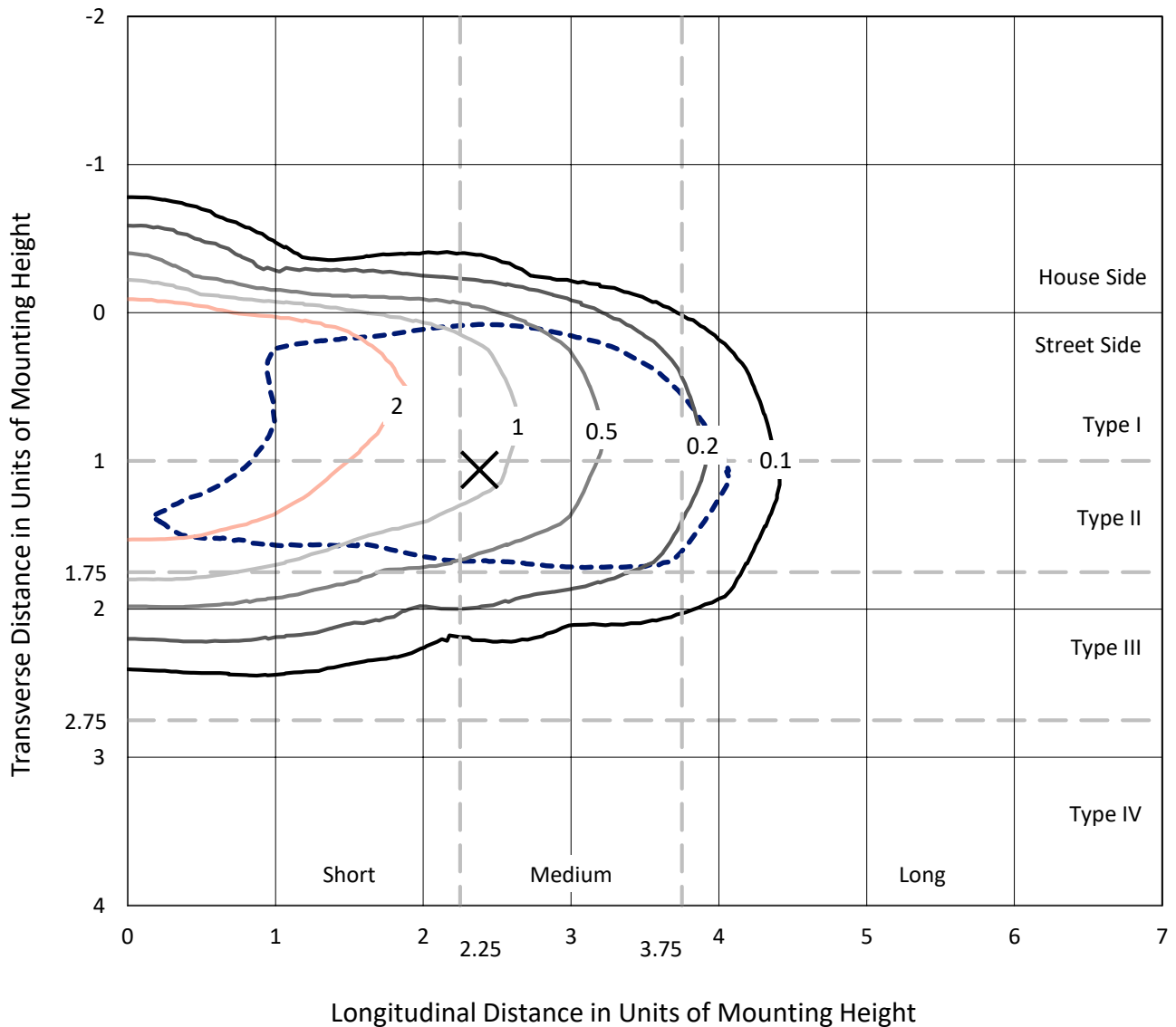
Input Watts (W): 171  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

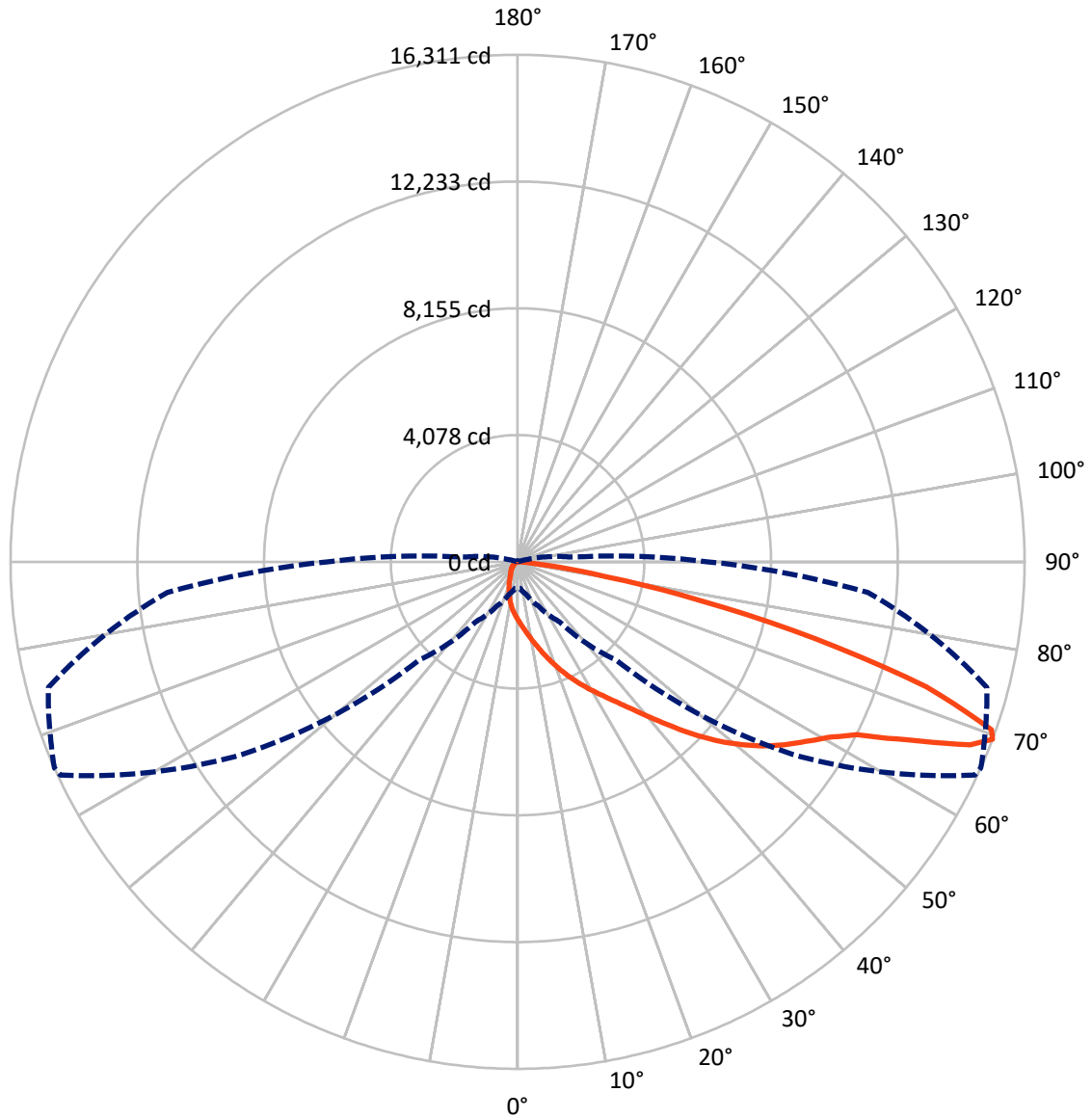
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.9 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral      - - - Horizontal Cone Through 69-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	983.8	0.0	983.8
	% Fixture	6.0	0.0	6.0
<b>Street Side</b>	Lumens	15416.2	0.0	15416.2
	% Fixture	94.0	0.0	94.0
<b>Total</b>	Lumens	16400.0	0.0	16400.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	180.4	1.1
10°-20°	536.9	3.3
20°-30°	935.0	5.7
30°-40°	1640.4	10.0
40°-50°	2745.9	16.7
50°-60°	4036.2	24.6
60°-70°	4144.1	25.3
70°-80°	2045.8	12.5
80°-90°	135.3	0.8
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°	16400.0	100.0
0°-180°	16400.0	100.0

**Coefficient of Utilization**

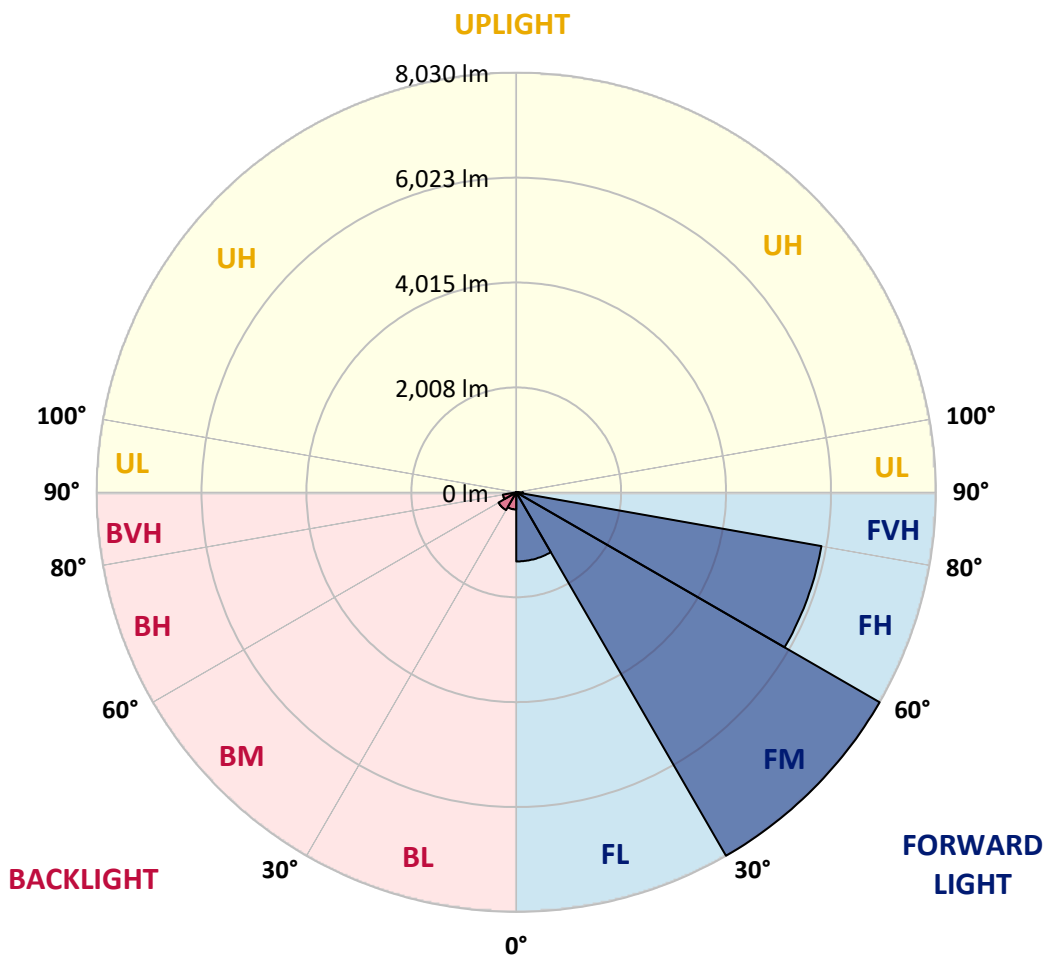


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1323.3	8.1			
FM (30°-60°)	8030.2	49.0			
FH (60°-80°)	5930.7	36.2			G3/7500
FVH (80°-90°)	132.0	0.8			G2/225
BL (0°-30°)	329.0	2.0	B1/500		
BM (30°-60°)	392.2	2.4	B1/1000		
BH (60°-80°)	259.3	1.6	B1/500		G1/500
BVH (80°-90°)	3.3	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 Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	1866.4	1866.4	1866.4	1866.4	1866.4	1866.4	1866.4	1866.4	1866.4	1866.4	1866.4
2.5°	2196.6	2187.3	2183.4	2166.3	2136.7	2114.1	2070.5	2019.8	2010.5	1961.4	1901.4
5°	2481.7	2474.0	2468.5	2444.4	2414.0	2357.1	2277.7	2183.4	2165.5	2072.0	1952.1
7.5°	2680.4	2694.4	2694.4	2678.8	2640.7	2597.8	2500.4	2371.9	2349.3	2206.0	2019.8
10°	2796.4	2813.6	2826.8	2840.1	2834.6	2817.5	2725.6	2580.7	2553.4	2363.3	2098.5
12.5°	2807.3	2824.5	2861.9	2917.2	2970.9	3009.9	2952.2	2812.0	2780.9	2545.6	2192.0
15°	2746.6	2764.5	2822.1	2929.6	3059.7	3173.5	3192.2	3068.3	3036.4	2762.9	2308.8
17.5°	2640.7	2652.3	2734.9	2883.7	3087.8	3296.5	3409.5	3343.3	3313.7	3011.4	2438.9
20°	2562.0	2570.5	2643.0	2802.7	3070.6	3373.6	3615.1	3635.4	3604.2	3277.8	2579.9
22.5°	2696.7	2712.3	2714.7	2790.2	3023.9	3411.8	3795.8	3922.8	3899.4	3560.6	2718.5
25°	3065.2	3083.1	3023.9	2977.2	3063.6	3429.0	3950.9	4217.3	4198.6	3865.2	2858.0
27.5°	3552.0	3570.7	3494.4	3355.0	3271.6	3493.6	4088.7	4516.4	4515.6	4187.7	3008.3
30°	4030.3	4049.0	3971.1	3831.7	3640.0	3676.7	4207.9	4829.5	4834.2	4520.3	3168.0
32.5°	4532.0	4555.3	4475.1	4295.9	4095.7	3992.9	4375.4	5144.2	5170.7	4905.8	3347.9
35°	5102.1	5105.3	4992.3	4804.6	4574.0	4415.9	4644.1	5497.1	5560.2	5383.3	3576.2
37.5°	5661.4	5684.0	5591.3	5295.3	5083.5	4904.3	5043.7	5938.0	6027.5	5966.8	3874.5
40°	6075.8	6123.4	6110.1	5790.7	5589.8	5462.0	5539.9	6462.2	6575.9	6646.0	4250.7
42.5°	6336.0	6371.8	6432.6	6240.2	6057.9	6079.0	6125.7	7072.9	7213.1	7420.3	4683.1
45°	6634.3	6651.5	6702.1	6617.2	6494.1	6706.0	6747.3	7760.7	7907.9	8253.0	5162.9
47.5°	6998.9	7039.4	7053.4	6975.5	6919.4	7260.6	7346.3	8386.2	8592.6	9144.9	5670.8
50°	7463.2	7474.1	7498.2	7447.6	7391.5	7737.3	7883.8	9042.9	9230.6	10039.9	6171.6
52.5°	7917.3	7956.2	8040.4	8008.4	7985.8	8143.2	8362.8	9634.9	9844.4	10786.2	6671.7
55°	8048.1	8081.6	8372.2	8570.8	8754.7	8643.3	8820.9	10165.3	10392.0	11453.0	7153.1
57.5°	7525.5	7593.2	8096.4	8613.7	9376.3	9420.7	9450.3	10709.8	10913.1	11963.9	7654.0
60°	6204.4	6217.6	7043.3	7930.5	9273.4	10099.1	10369.4	11294.8	11465.4	12439.9	8253.8
62.5°	3946.2	4080.9	4986.9	6239.4	8186.0	10001.0	11481.0	12179.7	12242.0	13010.9	9113.8
65°	1879.6	1966.9	2619.6	3855.0	5929.4	8744.5	12248.3	13780.5	13808.5	14142.7	10262.7
67.5°	1040.7	1082.7	1393.5	2075.1	3466.3	6184.1	11938.2	15676.4	15702.9	15298.6	11270.7
69°	814.0	849.8	1094.4	1564.1	2350.1	4444.7	10803.3	16231.8	16310.5	15629.7	11306.5
70°	690.9	726.0	942.5	1321.1	1889.7	3434.4	9616.2	16094.0	16177.3	15598.5	11039.3
72.5°	423.0	443.2	627.8	930.1	1266.6	1727.7	5930.2	13610.7	13751.6	14308.6	9487.7
75°	285.1	296.0	392.6	641.9	905.9	889.6	3080.8	9593.6	9898.9	11130.5	7007.5
77.5°	204.1	214.2	263.3	415.2	634.8	587.3	1395.1	5962.1	6027.5	6675.6	3821.5
80°	116.1	125.4	186.2	246.9	430.8	391.8	554.6	2847.9	2880.6	2862.7	1275.9
82.5°	60.8	68.5	102.0	162.8	276.5	256.3	230.6	953.4	958.1	796.9	279.6
85°	11.7	14.0	50.6	111.4	142.5	111.4	94.3	223.6	228.2	201.7	69.3
87.5°	0.0	0.8	20.3	24.9	28.0	28.8	30.4	43.6	46.7	63.1	18.7
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°	1866.4	1866.4	1866.4	1866.4	1866.4	1866.4	1866.4	1866.4	1866.4	1866.4	1866.4
2.5°	1874.9	1846.9	1793.2	1730.8	1682.5	1635.0	1597.6	1558.7	1544.7	1537.7	1536.9
5°	1893.6	1834.4	1720.7	1603.9	1508.1	1417.7	1353.0	1291.5	1262.7	1249.4	1244.0
7.5°	1924.8	1829.8	1646.7	1468.3	1330.5	1217.5	1127.9	1060.9	1027.4	1013.4	1008.0
10°	1961.4	1823.5	1560.2	1325.0	1149.0	1032.1	943.3	877.1	840.5	824.9	817.1
12.5°	2004.2	1812.6	1460.5	1180.1	993.9	877.1	769.6	687.8	645.8	627.8	619.3
15°	2057.2	1801.7	1356.2	1043.8	857.6	715.1	597.5	542.2	533.6	530.5	531.2
17.5°	2109.4	1784.6	1242.4	909.0	714.3	558.5	498.5	495.4	497.0	497.0	497.0
20°	2156.1	1745.6	1118.6	793.8	578.0	471.3	458.8	453.4	449.5	446.3	442.4
22.5°	2192.8	1693.4	999.4	679.2	472.0	431.5	412.1	394.9	380.9	371.6	366.9
25°	2217.7	1624.1	890.3	569.4	424.5	392.6	357.5	328.7	306.9	293.7	288.2
27.5°	2236.4	1549.3	793.0	476.7	391.8	347.4	301.5	267.2	244.6	232.9	228.2
30°	2249.6	1464.4	707.3	419.1	355.2	299.9	250.8	217.3	201.0	194.7	191.6
32.5°	2262.1	1370.2	626.3	391.8	320.9	256.3	210.3	184.6	174.5	166.7	164.4
35°	2293.2	1282.9	549.2	363.0	285.9	218.9	180.7	162.0	151.9	147.2	145.7
37.5°	2367.2	1218.3	475.2	333.4	250.8	189.3	158.1	144.9	135.5	130.9	129.3
40°	2486.4	1185.6	412.8	301.5	216.5	166.7	143.3	130.9	120.7	113.7	112.2
42.5°	2661.7	1190.2	369.2	269.5	189.3	148.8	129.3	114.5	103.6	97.4	95.8
45°	2874.3	1224.5	338.8	238.4	166.7	134.8	113.7	98.1	88.0	82.6	81.0
47.5°	3104.9	1279.8	313.9	210.3	148.8	121.5	98.1	81.8	73.2	68.5	67.8
50°	3347.9	1333.6	288.2	183.1	133.2	108.3	82.6	67.8	60.8	56.9	55.3
52.5°	3594.1	1395.9	264.8	158.1	120.0	92.7	68.5	55.3	49.9	46.7	45.2
55°	3858.9	1442.6	242.3	138.7	106.7	78.7	56.9	46.0	41.3	37.4	36.6
57.5°	4170.5	1515.1	218.9	120.0	91.1	65.4	46.7	36.6	32.7	28.8	28.0
60°	4591.2	1600.0	194.0	105.9	74.8	53.7	38.2	29.6	24.9	21.8	21.0
62.5°	5145.8	1694.2	162.8	92.7	60.8	43.6	30.4	23.4	17.9	14.0	14.0
65°	5849.2	1847.7	133.2	77.9	49.9	35.8	23.4	17.1	10.1	6.2	6.2
67.5°	6259.7	1874.2	107.5	63.9	40.5	30.4	19.5	11.7	3.1	0.8	0.0
69°	6128.0	1720.7	91.1	54.5	35.1	28.8	17.9	8.6	1.6	0.0	0.0
70°	5880.3	1573.5	80.2	48.3	31.9	27.3	17.1	6.2	1.6	0.0	0.0
72.5°	4859.1	1120.1	60.8	35.8	23.4	24.1	15.6	3.9	1.6	0.0	0.0
75°	3539.6	680.8	43.6	24.9	14.8	17.9	10.9	1.6	0.8	0.0	0.0
77.5°	1969.2	320.9	27.3	14.0	9.3	10.9	5.5	0.0	0.0	0.0	0.0
80°	639.5	87.2	12.5	7.8	5.5	6.2	2.3	0.0	0.0	0.0	0.0
82.5°	118.4	24.9	7.0	3.9	1.6	1.6	0.0	0.0	0.0	0.0	0.0
85°	25.7	10.1	3.9	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	8.6	3.1	0.8	0.0	0.0	0.0	0.0	0.0	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)