

Scaled data based on original data using  
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions

Brand: STREETWORKS

Report Number: P387056

Luminaire Tested: GAW-SA2D-735-U-SL2-HSS

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-2019  
Report Number: P387056  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-21)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: STREETWORKS  
Catalog Number: GAW-SA2D-735-U-SL2-HSS  
Description: GALLEON WALL LUMINAIRE  
(2) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 12599.2 lumens  
Efficiency: N/A  
Efficacy: 97.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B2 - U0 - G2

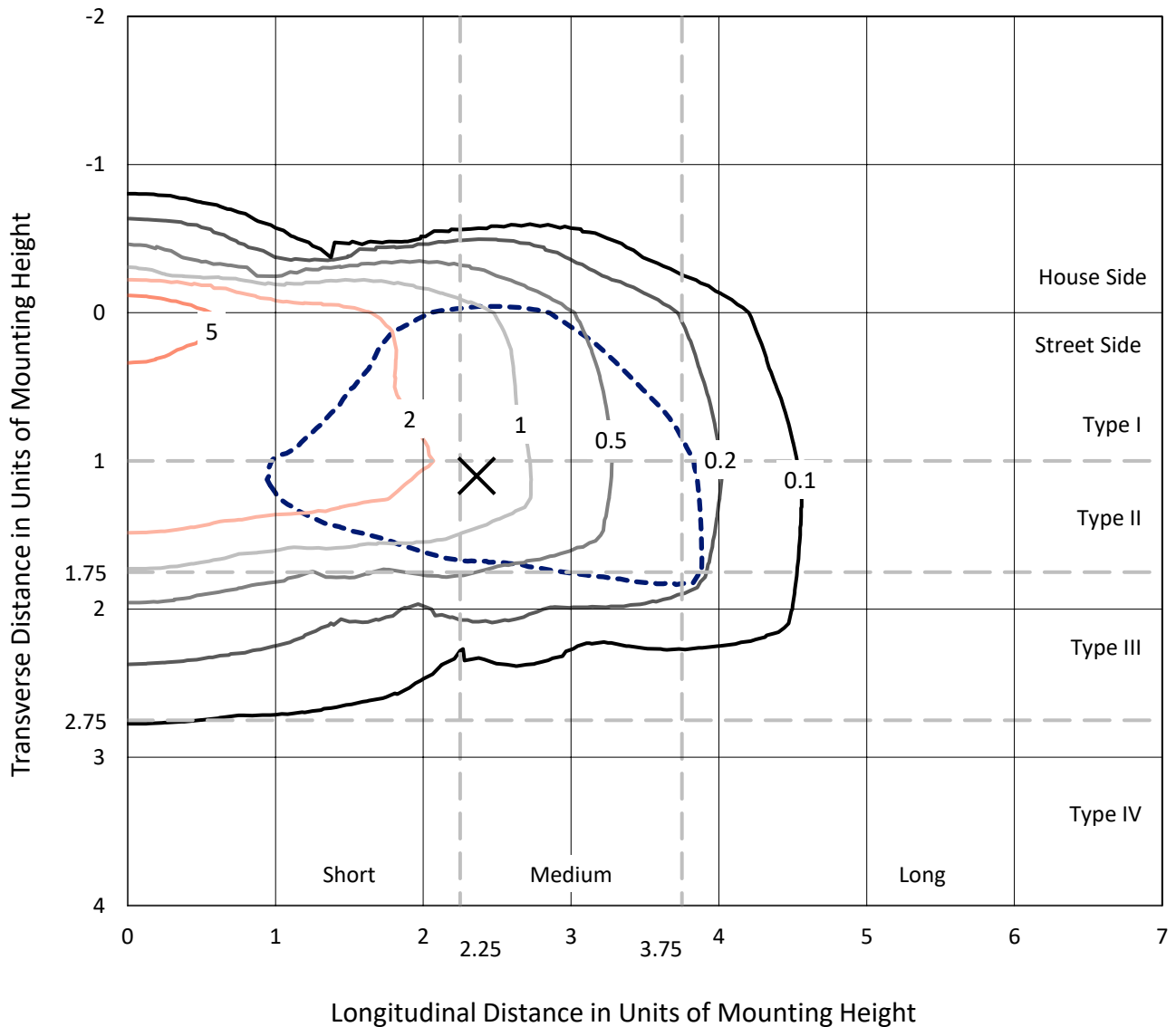
Input Watts (W): 129  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

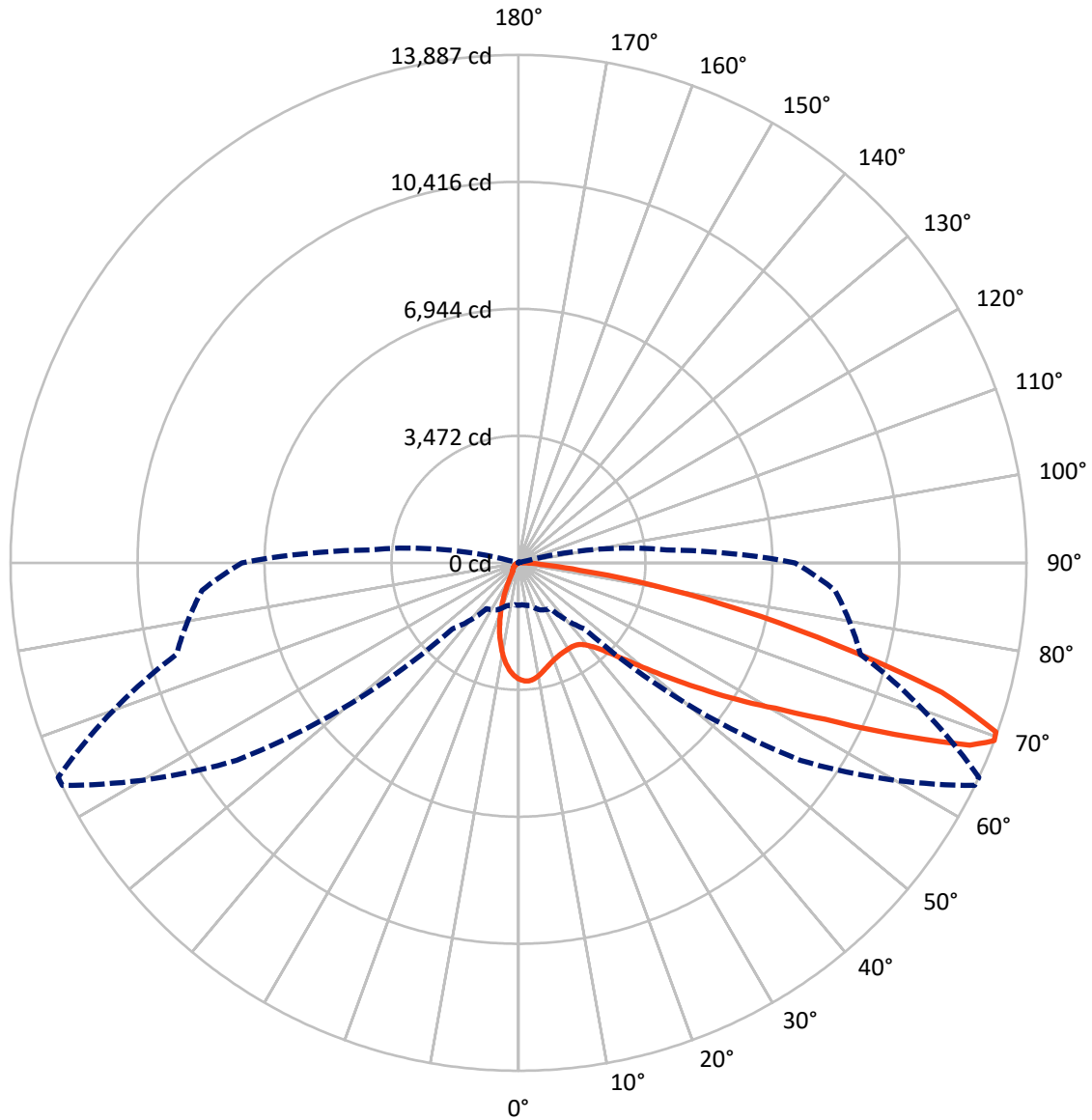
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 8 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral      - - - Horizontal Cone Through 69-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1485.1	0.0	1485.1
	% Fixture	11.8	0.0	11.8
<b>Street Side</b>	Lumens	11114.0	0.0	11114.0
	% Fixture	88.2	0.0	88.2
<b>Total</b>	Lumens	12599.2	0.0	12599.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	266.2	2.1
10°-20°	582.8	4.6
20°-30°	807.2	6.4
30°-40°	1125.5	8.9
40°-50°	1749.4	13.9
50°-60°	2808.4	22.3
60°-70°	3176.8	25.2
70°-80°	1865.8	14.8
80°-90°	217.0	1.7
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°	12599.2	100.0
0°-180°	12599.2	100.0

**Coefficient of Utilization**

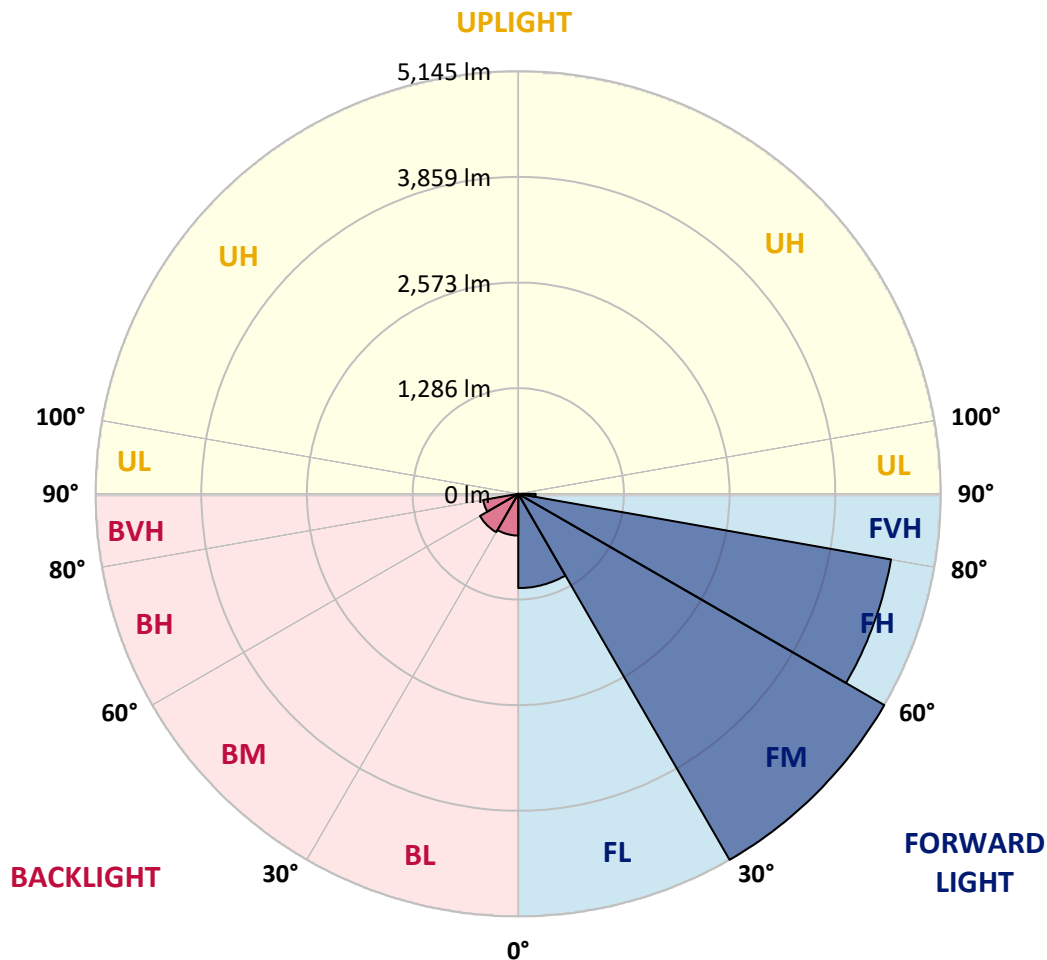


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1148.1	9.1			
FM (30°-60°)	5145.1	40.8			
FH (60°-80°)	4608.6	36.6			G2/5000
FVH (80°-90°)	212.2	1.7			G2/225
BL (0°-30°)	508.2	4.0	B2/1000		
BM (30°-60°)	538.2	4.3	B1/1000		
BH (60°-80°)	433.9	3.4	B1/500		G1/500
BVH (80°-90°)	4.9	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G2**  
 Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	3183.8	3183.8	3183.8	3183.8	3183.8	3183.8	3183.8	3183.8	3183.8	3183.8	3183.8
2.5°	3212.1	3204.1	3210.5	3224.4	3231.2	3231.2	3236.6	3230.2	3232.4	3216.9	3194.5
5°	3011.1	2998.8	3016.4	3055.4	3103.3	3144.3	3205.1	3237.2	3240.3	3240.9	3214.8
7.5°	2794.6	2783.4	2809.5	2855.4	2917.3	2993.5	3099.6	3192.3	3197.7	3247.8	3228.6
10°	2618.7	2610.8	2641.1	2690.1	2762.7	2848.0	2978.1	3107.0	3122.5	3233.4	3226.4
12.5°	2479.1	2472.7	2501.4	2558.0	2632.1	2726.4	2862.3	3012.2	3032.9	3200.9	3215.8
15°	2377.2	2376.1	2400.2	2454.5	2536.6	2624.6	2763.7	2924.2	2948.2	3165.7	3214.2
17.5°	2323.9	2325.5	2343.1	2389.4	2459.8	2547.3	2680.6	2850.1	2876.2	3134.3	3222.2
20°	2318.5	2320.2	2329.8	2355.9	2412.9	2490.2	2612.8	2787.7	2814.9	3110.8	3235.0
22.5°	2365.5	2364.5	2367.1	2364.5	2396.4	2455.0	2568.0	2739.7	2771.2	3095.3	3245.1
25°	2455.6	2454.0	2452.9	2433.2	2411.9	2443.3	2549.4	2712.5	2742.4	3084.1	3251.0
27.5°	2580.9	2579.8	2578.2	2545.7	2481.7	2462.0	2551.6	2702.4	2727.4	3075.1	3249.9
30°	2745.6	2753.1	2750.9	2705.6	2605.9	2519.0	2573.9	2697.1	2719.0	3057.4	3238.7
32.5°	2939.1	2954.0	2965.8	2917.3	2792.5	2632.1	2625.6	2702.9	2719.0	3044.1	3218.5
35°	3140.1	3159.3	3202.5	3185.4	3021.2	2802.1	2714.7	2738.1	2751.5	3051.6	3208.9
37.5°	3337.9	3360.9	3454.6	3504.2	3320.9	3027.1	2853.3	2825.0	2832.0	3096.9	3219.6
40°	3567.7	3602.3	3744.7	3824.6	3678.6	3328.3	3060.6	2974.3	2976.9	3196.7	3269.1
42.5°	3869.5	3905.2	4059.2	4184.5	4081.6	3708.9	3342.2	3202.5	3199.9	3383.2	3385.9
45°	4237.3	4274.6	4434.0	4573.2	4526.8	4160.0	3702.5	3535.7	3532.5	3677.5	3607.1
47.5°	4654.2	4691.0	4833.3	4976.7	5026.9	4686.7	4161.6	3990.5	3983.0	4086.4	3948.8
50°	5011.9	5035.9	5167.0	5360.1	5586.1	5333.9	4732.6	4567.8	4559.8	4629.7	4450.6
52.5°	5142.0	5155.9	5289.2	5559.4	6123.4	6210.4	5482.7	5270.5	5264.6	5295.0	5118.6
55°	4878.6	4903.7	5067.4	5468.3	6414.6	7200.9	6429.5	6140.5	6096.3	6030.7	5816.9
57.5°	4161.0	4201.1	4376.9	4910.1	6278.6	7986.7	7820.9	7124.7	7059.6	6658.7	6384.7
60°	3117.8	3166.8	3312.9	3888.1	5553.0	8266.7	9341.4	8221.3	8074.7	7158.8	6906.6
62.5°	2139.5	2164.0	2263.1	2637.9	4089.7	7808.1	10613.5	9690.1	9422.5	7702.6	7471.2
65°	1634.1	1642.5	1683.1	1812.1	2435.3	6342.6	11119.4	11628.0	11304.4	8353.0	8057.1
67.5°	1316.8	1309.9	1365.9	1550.4	1630.8	3869.5	10529.2	13461.4	13310.0	9222.5	8646.7
69°	1161.2	1151.5	1208.6	1422.9	1531.7	2558.0	9412.9	13877.8	13887.4	9681.6	8687.3
70°	1044.9	1051.4	1107.8	1347.2	1498.1	2007.8	8346.6	13771.7	13847.4	9853.2	8444.2
72.5°	697.9	714.9	828.5	1118.5	1440.5	1519.4	5039.7	11817.8	12108.9	9466.7	7244.6
75°	393.4	406.3	541.1	843.4	1357.3	1446.9	2661.9	8706.5	8987.9	7916.4	5586.7
77.5°	193.0	199.9	306.1	544.3	1135.1	1378.7	1509.8	5914.0	6235.4	5167.0	3159.8
80°	81.5	85.3	153.0	335.8	811.4	1315.7	1121.2	3639.7	3679.6	2024.3	841.8
82.5°	31.5	32.5	64.5	209.5	515.5	1025.7	937.8	1725.8	1684.1	381.2	191.9
85°	3.8	4.2	23.5	125.8	286.8	527.8	761.8	743.7	688.3	75.7	98.6
87.5°	0.0	0.0	1.6	38.4	85.3	247.3	396.1	308.7	278.2	24.5	51.2
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°	3183.8	3183.8	3183.8	3183.8	3183.8	3183.8	3183.8	3183.8	3183.8	3183.8	3183.8
2.5°	3175.8	3170.5	3141.7	3100.1	3060.6	3011.6	2964.7	2936.5	2914.1	2899.2	2916.7
5°	3184.4	3160.9	3073.5	2961.5	2851.7	2728.0	2612.8	2515.3	2476.9	2434.3	2453.4
7.5°	3181.7	3137.5	2980.1	2780.8	2579.3	2370.8	2173.6	2021.6	1942.7	1865.4	1885.2
10°	3168.4	3093.7	2855.4	2560.0	2258.3	1958.7	1678.8	1466.1	1347.2	1239.5	1254.9
12.5°	3139.1	3035.1	2708.3	2307.3	1903.8	1508.8	1180.9	908.5	762.4	697.9	705.9
15°	3121.4	2978.1	2552.6	2051.4	1525.3	1050.8	721.8	536.9	470.3	448.9	451.6
17.5°	3113.0	2923.1	2391.6	1758.8	1138.3	669.0	466.5	411.5	397.2	393.4	394.5
20°	3104.4	2867.7	2225.8	1469.3	784.2	450.0	383.3	367.3	361.9	357.2	358.3
22.5°	3090.0	2814.3	2047.7	1176.1	528.9	365.2	345.5	330.0	318.8	312.9	314.0
25°	3072.4	2758.4	1865.9	875.9	386.0	325.8	307.1	285.2	271.9	261.2	261.8
27.5°	3044.1	2689.6	1678.3	637.7	324.2	291.6	266.6	242.6	220.2	207.9	207.9
30°	3004.7	2611.8	1469.9	456.4	290.6	258.1	227.6	197.8	173.8	162.6	161.6
32.5°	2961.0	2530.7	1259.3	346.0	263.9	226.6	191.9	160.4	139.1	130.1	129.5
35°	2923.7	2443.3	1049.2	290.0	237.2	196.1	158.4	131.7	114.6	107.2	106.6
37.5°	2899.6	2355.9	844.5	259.1	213.2	168.0	132.7	108.8	96.5	90.7	90.1
40°	2896.0	2290.8	657.4	235.6	190.9	142.9	110.8	92.2	81.1	74.7	74.1
42.5°	2944.4	2253.5	504.4	215.9	168.0	121.0	94.4	78.9	67.2	60.8	60.2
45°	3071.9	2265.3	388.2	198.3	145.0	102.4	79.9	65.6	55.0	50.1	49.0
47.5°	3304.3	2346.3	308.7	180.7	123.2	86.9	68.2	54.4	45.3	40.5	40.0
50°	3718.0	2536.6	258.1	161.6	102.9	74.1	56.6	44.2	36.8	32.5	32.0
52.5°	4267.1	2875.7	230.3	142.9	85.3	62.9	46.4	35.2	28.7	25.6	25.1
55°	4872.7	3286.2	212.2	122.6	69.8	52.2	36.8	27.7	22.4	19.7	18.7
57.5°	5464.0	3641.7	195.1	102.9	58.1	42.6	29.3	21.9	17.6	14.9	14.4
60°	6007.2	3968.6	175.4	82.7	47.4	33.6	22.9	17.1	13.9	11.2	11.2
62.5°	6588.9	4221.3	148.2	64.5	38.9	25.6	18.7	15.5	11.2	9.6	9.0
65°	7205.2	4409.0	116.2	50.1	30.3	19.2	15.5	16.0	9.0	7.0	6.4
67.5°	7660.5	4371.7	85.9	39.5	23.5	14.9	14.9	17.1	8.0	5.4	4.8
69°	7560.2	4068.3	72.0	34.1	20.3	12.8	13.9	17.1	7.4	4.8	4.2
70°	7269.7	3732.4	63.4	30.3	18.1	11.7	13.3	16.5	7.0	4.8	4.2
72.5°	6054.2	2811.1	49.6	22.9	14.4	9.6	11.2	14.4	7.0	4.8	3.8
75°	4554.0	1799.3	37.9	16.5	10.7	7.4	8.5	10.7	7.0	4.2	3.8
77.5°	2477.9	648.8	27.1	11.2	7.4	5.8	5.8	8.0	6.4	3.2	2.2
80°	637.1	163.2	17.1	7.4	5.8	4.2	3.8	5.4	3.8	0.6	0.0
82.5°	157.3	36.8	9.0	5.4	4.2	1.6	1.6	2.6	1.6	0.0	0.0
85°	86.3	18.1	5.8	3.8	2.2	0.0	0.0	0.6	0.0	0.0	0.0
87.5°	44.2	5.4	1.6	1.0	0.6	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)