

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: P387142

Luminaire Tested: GAW-SA2D-827-U-SL3-HSS

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-2019  
Report Number: P387142  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-23)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: STREETWORKS  
Catalog Number: GAW-SA2D-827-U-SL3-HSS  
Description: GALLEON WALL LUMINAIRE  
(2) 80 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 10170 lumens  
Efficiency: N/A  
Efficacy: 79.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B1 - U0 - G2

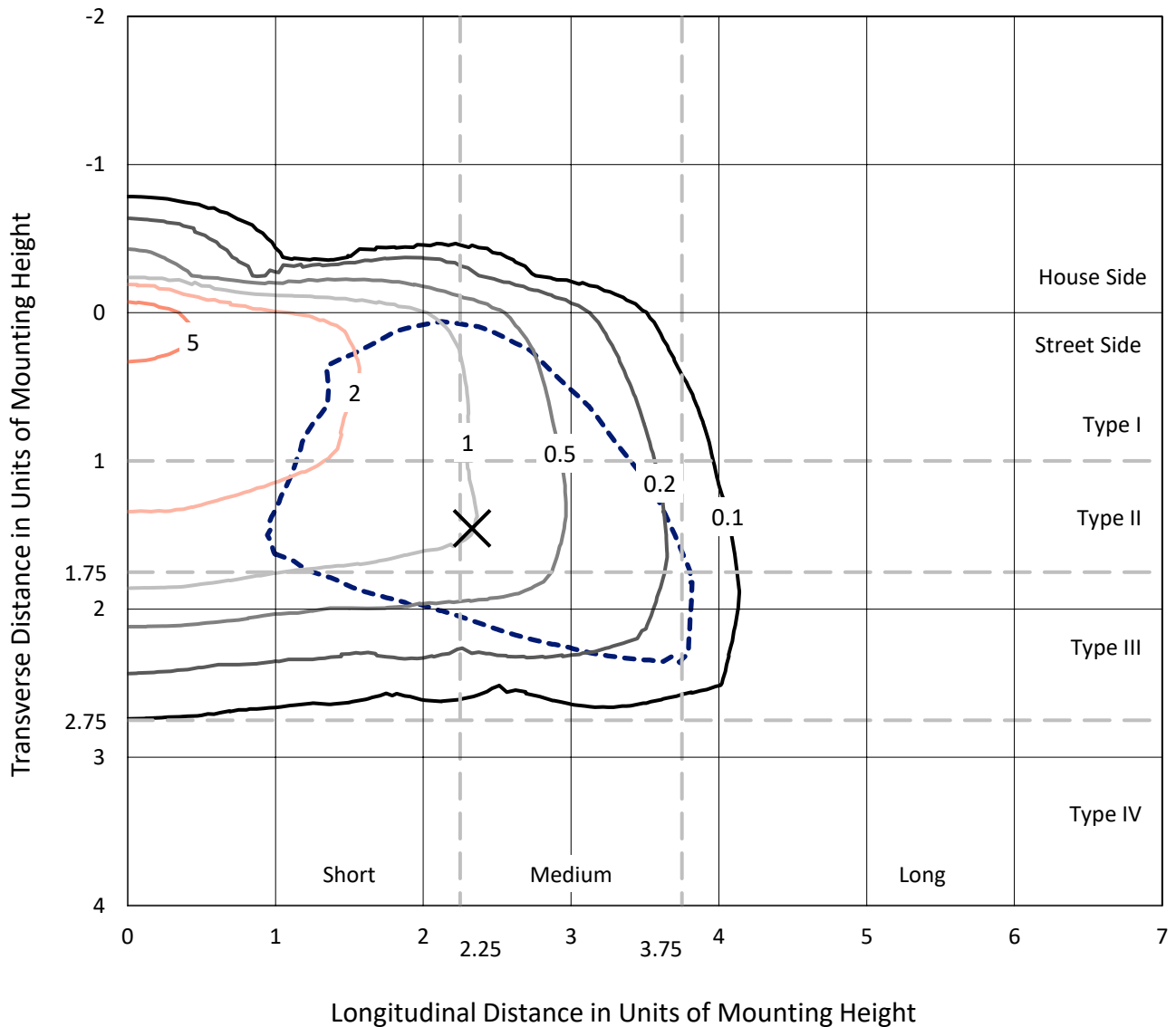
Input Watts (W): 128  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

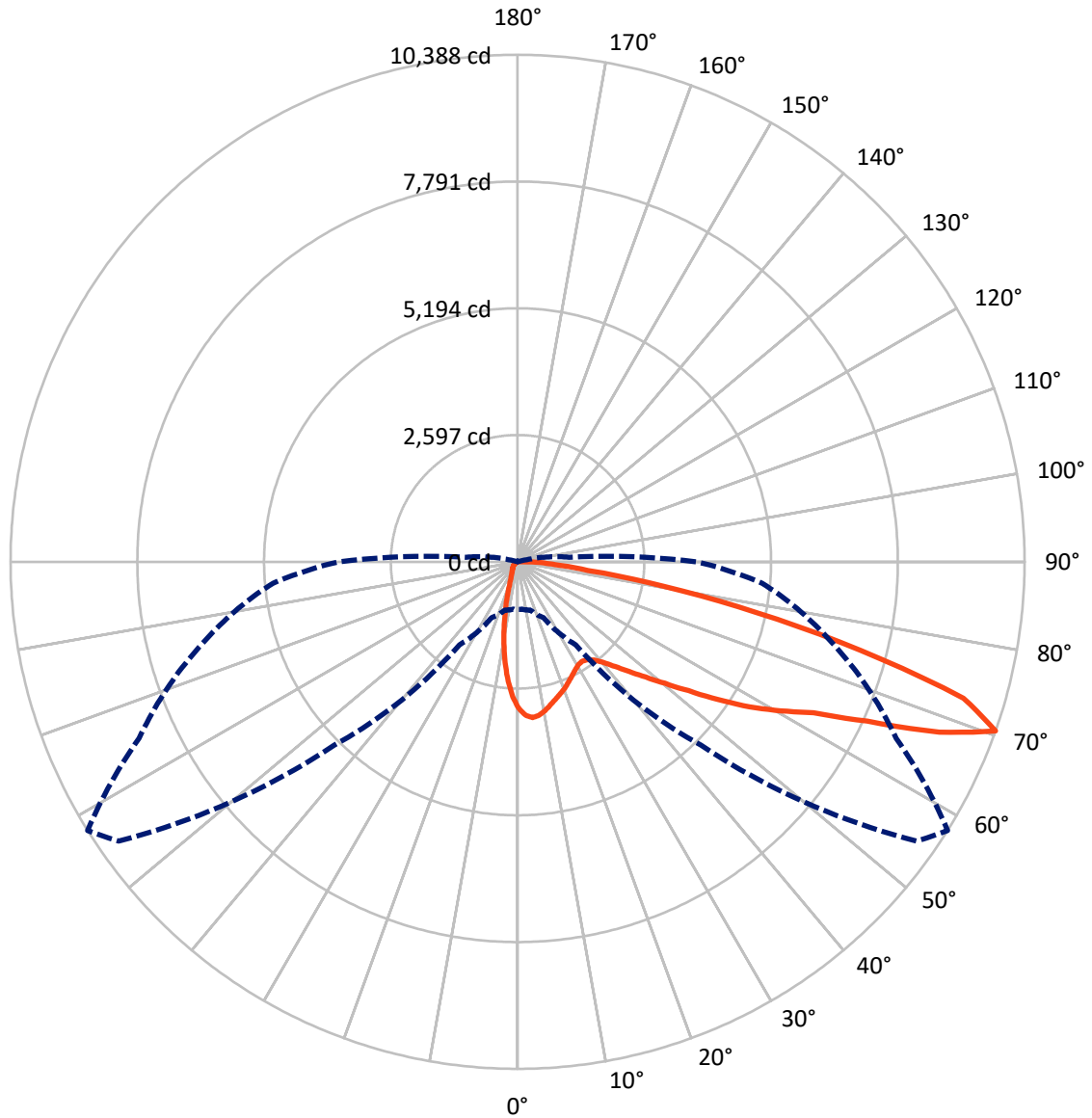
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 7.6 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	870.3	0.0	870.3
	% Fixture	8.6	0.0	8.6
<b>Street Side</b>	Lumens	9299.7	0.0	9299.7
	% Fixture	91.4	0.0	91.4
<b>Total</b>	Lumens	10170.0	0.0	10170.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	245.7	2.4
10°-20°	515.6	5.1
20°-30°	677.8	6.7
30°-40°	897.7	8.8
40°-50°	1341.8	13.2
50°-60°	2149.5	21.1
60°-70°	2709.4	26.6
70°-80°	1461.4	14.4
80°-90°	171.1	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°	10170.0	100.0
0°-180°	10170.0	100.0

**Coefficient of Utilization**



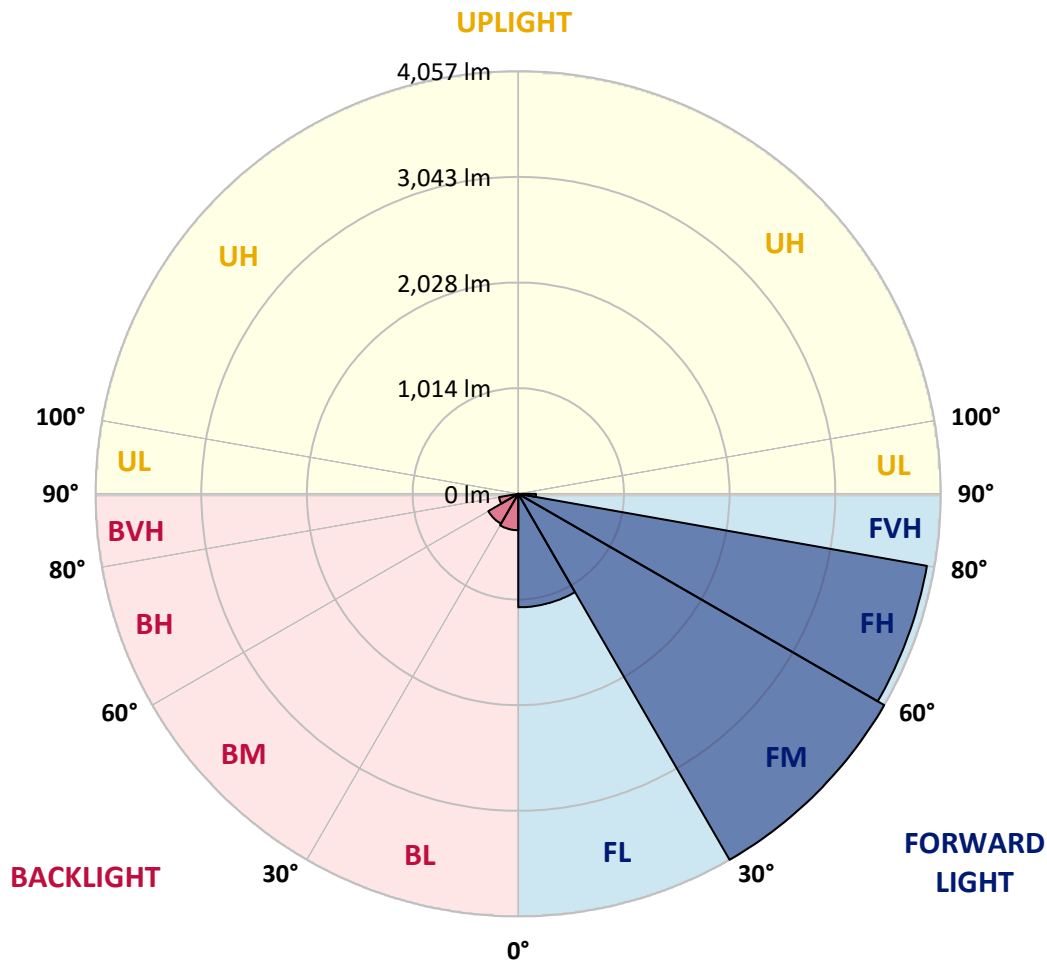
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1089.4	10.7			
FM (30°-60°)	4057.0	39.9			
FH (60°-80°)	3983.7	39.2			G2/5000
FVH (80°-90°)	169.6	1.7			G2/225
BL (0°-30°)	349.7	3.4	B1/500		
BM (30°-60°)	332.0	3.3	B1/1000		
BH (60°-80°)	187.2	1.8	B1/500		G1/500
BVH (80°-90°)	1.5	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 III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	3004.2	3004.2	3004.2	3004.2	3004.2	3004.2	3004.2	3004.2	3004.2	3004.2	3004.2
2.5°	3253.2	3245.2	3242.3	3237.2	3217.7	3198.7	3161.1	3150.5	3126.8	3070.6	3010.9
5°	3255.8	3255.4	3264.2	3262.1	3255.4	3246.5	3219.4	3205.5	3165.3	3084.9	2975.8
7.5°	3098.9	3106.9	3126.8	3142.9	3161.5	3185.6	3189.0	3175.4	3142.5	3055.8	2911.1
10°	2888.3	2901.0	2928.9	2960.6	3009.2	3057.5	3100.6	3098.9	3087.5	3002.1	2833.3
12.5°	2677.3	2692.1	2724.2	2771.2	2840.1	2918.7	2995.7	3006.3	3025.3	2953.8	2761.4
15°	2492.5	2505.2	2536.9	2594.4	2679.8	2785.5	2898.4	2917.9	2967.0	2916.2	2701.4
17.5°	2335.6	2343.6	2366.9	2430.7	2529.7	2657.8	2804.6	2842.6	2915.8	2886.6	2649.4
20°	2226.1	2227.3	2242.6	2287.4	2386.3	2529.7	2707.3	2761.9	2861.7	2861.2	2595.7
22.5°	2171.9	2167.7	2170.7	2196.5	2269.2	2407.5	2610.0	2674.7	2813.0	2839.7	2541.1
25°	2161.8	2158.4	2149.9	2153.3	2197.3	2300.5	2511.9	2586.8	2770.3	2826.6	2493.7
27.5°	2193.5	2196.9	2182.5	2167.3	2170.7	2231.1	2424.8	2511.5	2735.6	2826.6	2460.3
30°	2257.4	2259.0	2248.5	2228.6	2202.0	2211.7	2364.3	2451.0	2718.3	2846.0	2439.2
32.5°	2328.0	2337.3	2336.0	2319.9	2281.9	2242.6	2350.0	2429.0	2717.0	2889.1	2437.1
35°	2415.5	2426.1	2443.8	2440.5	2400.7	2336.0	2399.0	2461.2	2742.0	2960.2	2459.9
37.5°	2508.5	2524.6	2562.7	2580.9	2555.1	2481.9	2509.0	2553.4	2808.8	3075.2	2517.9
40°	2598.6	2616.8	2686.2	2757.6	2738.2	2662.9	2675.6	2711.1	2927.6	3240.6	2627.8
42.5°	2687.0	2714.1	2816.0	2933.5	2956.8	2896.8	2903.5	2931.9	3104.0	3468.1	2807.5
45°	2792.7	2823.2	2974.1	3119.2	3181.4	3155.1	3183.9	3202.5	3334.4	3768.7	3049.8
47.5°	2947.9	2983.0	3168.2	3333.6	3442.7	3459.6	3517.6	3529.8	3625.8	4118.9	3365.7
50°	3250.7	3260.4	3427.9	3578.0	3735.3	3836.8	3902.8	3912.1	3978.5	4501.6	3760.3
52.5°	3631.7	3638.1	3732.8	3833.4	4012.3	4219.5	4373.9	4387.0	4401.0	4874.6	4149.8
55°	4010.2	4009.4	4072.0	4131.2	4335.8	4636.9	4971.9	4979.9	4879.7	5228.5	4447.5
57.5°	4246.6	4269.4	4364.6	4440.7	4726.6	5112.7	5577.4	5607.0	5382.5	5490.7	4741.8
60°	4171.3	4182.3	4393.3	4675.0	5213.3	5788.9	6190.2	6197.8	5760.5	5752.5	5113.9
62.5°	3553.9	3559.8	3891.4	4472.0	5459.9	6665.9	6929.4	6805.5	6195.3	6115.8	5559.2
65°	2435.8	2474.3	2751.3	3468.9	5006.9	7216.1	8073.7	7868.6	6857.9	6639.3	5961.8
67.5°	1434.4	1426.4	1563.4	2092.0	3677.4	6850.7	9521.2	9317.4	7761.6	6989.9	5843.8
70°	979.8	974.3	1026.8	1266.5	2075.9	5314.4	9976.7	10388.2	8559.6	6753.9	5029.4
72.5°	699.5	702.4	779.8	984.1	1303.3	3096.4	8579.5	9553.4	8309.7	5887.8	3822.9
75°	474.9	482.9	593.7	807.3	1142.6	1575.2	6088.3	7262.2	6766.6	4279.2	2197.3
77.5°	255.4	264.3	395.0	650.4	1033.1	1094.4	3916.3	4998.1	4250.4	1923.7	636.9
80°	106.6	111.6	184.8	472.8	892.7	961.2	2304.3	3030.8	1811.2	379.3	142.1
82.5°	46.1	48.6	77.0	282.1	667.3	811.5	1220.0	1458.1	548.9	83.3	71.5
85°	8.9	9.3	31.7	149.3	425.8	458.0	790.8	775.1	246.5	35.9	52.0
87.5°	0.0	0.0	7.6	46.9	125.2	249.5	482.5	476.6	83.7	17.3	19.5
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°	3004.2	3004.2	3004.2	3004.2	3004.2	3004.2	3004.2	3004.2	3004.2	3004.2	3004.2
2.5°	2980.5	2951.3	2890.0	2814.3	2756.4	2692.5	2641.8	2577.5	2549.6	2550.8	2535.6
5°	2913.7	2853.6	2717.9	2546.6	2414.7	2278.5	2161.4	2044.6	1975.7	1953.3	1932.2
7.5°	2818.1	2723.0	2506.4	2242.6	2019.3	1801.1	1611.2	1444.1	1338.4	1286.8	1267.8
10°	2710.3	2576.6	2263.3	1915.7	1596.8	1301.6	1055.5	841.5	756.1	698.2	683.4
12.5°	2615.5	2434.5	2025.6	1580.3	1201.8	845.8	611.1	477.9	419.9	397.1	393.3
15°	2526.3	2301.8	1796.8	1276.7	832.2	520.6	388.6	343.4	329.8	326.0	326.0
17.5°	2442.2	2175.3	1573.1	977.7	550.6	364.9	321.8	311.7	307.4	307.0	307.4
20°	2354.2	2048.9	1353.2	716.4	384.4	309.1	297.3	291.8	290.5	290.5	290.5
22.5°	2270.0	1922.4	1139.3	511.7	308.3	282.1	276.1	272.3	271.1	270.6	269.8
25°	2189.3	1802.3	930.3	361.6	270.6	258.4	253.3	248.2	244.4	242.3	241.0
27.5°	2122.9	1695.3	735.8	290.1	244.4	233.9	227.5	219.9	210.6	206.4	204.7
30°	2070.0	1597.7	567.1	244.8	219.9	209.3	199.6	186.5	173.0	165.8	165.3
32.5°	2028.6	1501.7	430.5	216.5	197.9	184.8	170.8	154.4	138.7	130.7	130.2
35°	2008.3	1417.1	329.0	195.8	178.5	162.0	144.6	126.4	111.2	103.6	102.8
37.5°	2021.8	1345.6	256.7	178.5	162.0	142.9	122.6	103.6	90.1	83.3	82.9
40°	2071.3	1299.9	208.5	163.7	148.0	124.8	102.8	85.0	73.6	68.1	67.7
42.5°	2176.6	1283.0	178.0	151.4	134.5	107.8	85.4	70.2	59.6	55.8	55.0
45°	2352.5	1308.0	157.3	139.6	120.5	91.8	70.6	57.5	48.2	45.2	44.8
47.5°	2586.8	1373.5	142.5	128.1	107.8	77.4	58.8	46.5	39.3	36.4	35.9
50°	2888.7	1477.6	130.2	116.7	96.0	65.5	48.6	36.8	30.4	28.3	28.3
52.5°	3217.3	1601.5	119.3	106.1	84.2	54.6	39.3	28.3	24.1	21.6	21.6
55°	3488.8	1709.7	107.4	98.1	69.8	45.2	30.0	21.6	17.8	16.5	16.5
57.5°	3759.9	1825.2	93.9	84.2	55.8	36.8	22.8	16.1	13.1	12.3	12.3
60°	4111.3	1966.4	80.8	68.5	44.0	27.9	16.9	11.4	9.7	9.3	9.3
62.5°	4497.8	2049.3	68.9	55.0	34.3	20.7	12.3	7.6	7.2	7.2	6.8
65°	4734.2	1932.2	57.9	44.0	26.6	15.6	8.0	5.5	6.3	5.9	5.1
67.5°	4432.7	1512.7	47.4	34.3	20.7	11.8	5.1	3.8	6.8	5.5	4.2
70°	3670.2	1058.9	36.8	24.1	16.5	10.1	3.4	2.5	7.2	5.5	3.4
72.5°	2746.6	708.8	29.2	16.1	12.3	8.9	3.0	1.3	6.3	4.7	3.0
75°	1500.8	285.4	23.3	10.1	7.6	6.3	2.1	0.8	4.2	3.4	2.1
77.5°	395.0	75.3	16.9	6.8	4.2	2.5	1.3	0.4	2.1	1.7	0.8
80°	100.6	29.2	11.0	4.7	3.0	1.3	0.0	0.0	0.4	0.0	0.0
82.5°	53.7	12.3	6.8	3.4	1.7	0.0	0.0	0.0	0.0	0.0	0.0
85°	40.6	8.0	3.8	2.1	0.4	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	15.6	2.5	1.3	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)