

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: P323176

Luminaire Tested: **GAN-SA2D-730-U-SL2-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P323176  
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 (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-SA2D-730-U-SL2-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 70 CRI, 3000K, 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: 11975 lumens  
Efficiency: N/A  
Efficacy: 92.8 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B1 - U0 - G2

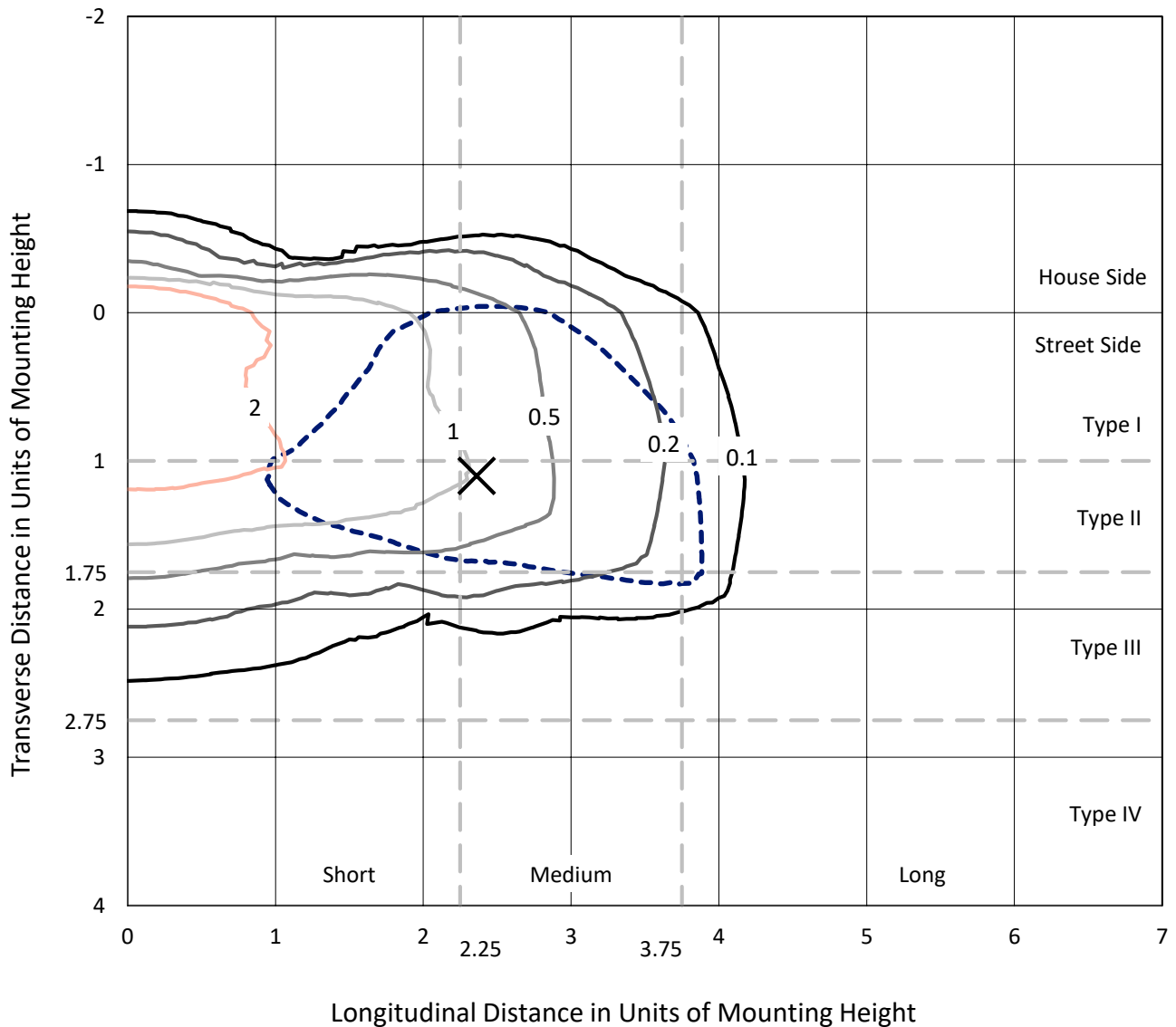
Input Watts (W): 129  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

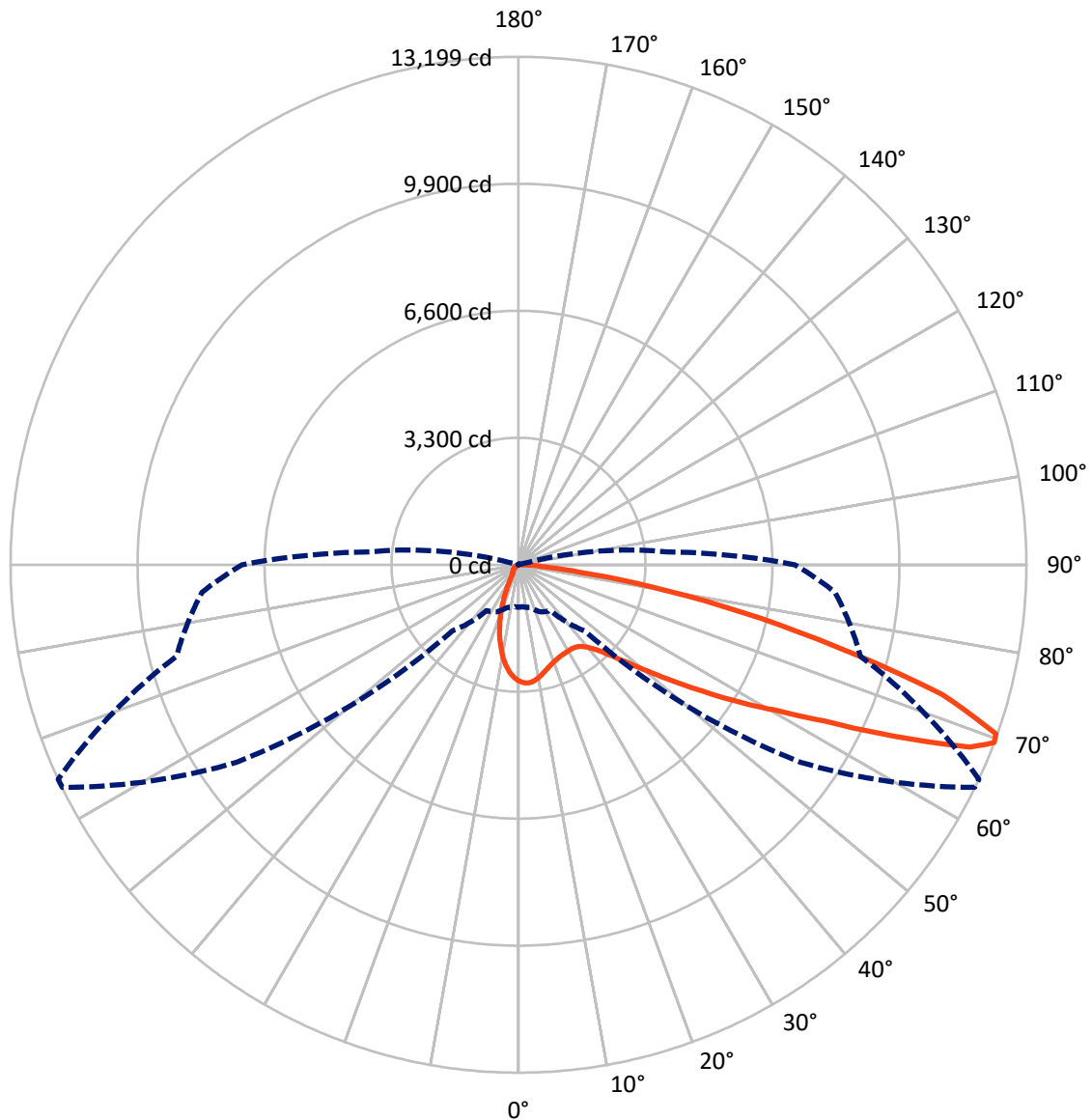
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.8 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	1411.6	0.0	1411.6
	% Fixture	11.8	0.0	11.8
<b>Street Side</b>	Lumens	10563.4	0.0	10563.4
	% Fixture	88.2	0.0	88.2
<b>Total</b>	Lumens	11975.0	0.0	11975.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	253.0	2.1
10°-20°	553.9	4.6
20°-30°	767.2	6.4
30°-40°	1069.7	8.9
40°-50°	1662.7	13.9
50°-60°	2669.3	22.3
60°-70°	3019.4	25.2
70°-80°	1773.3	14.8
80°-90°	206.3	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°	11975.0	100.0
0°-180°	11975.0	100.0

**Coefficient of Utilization**

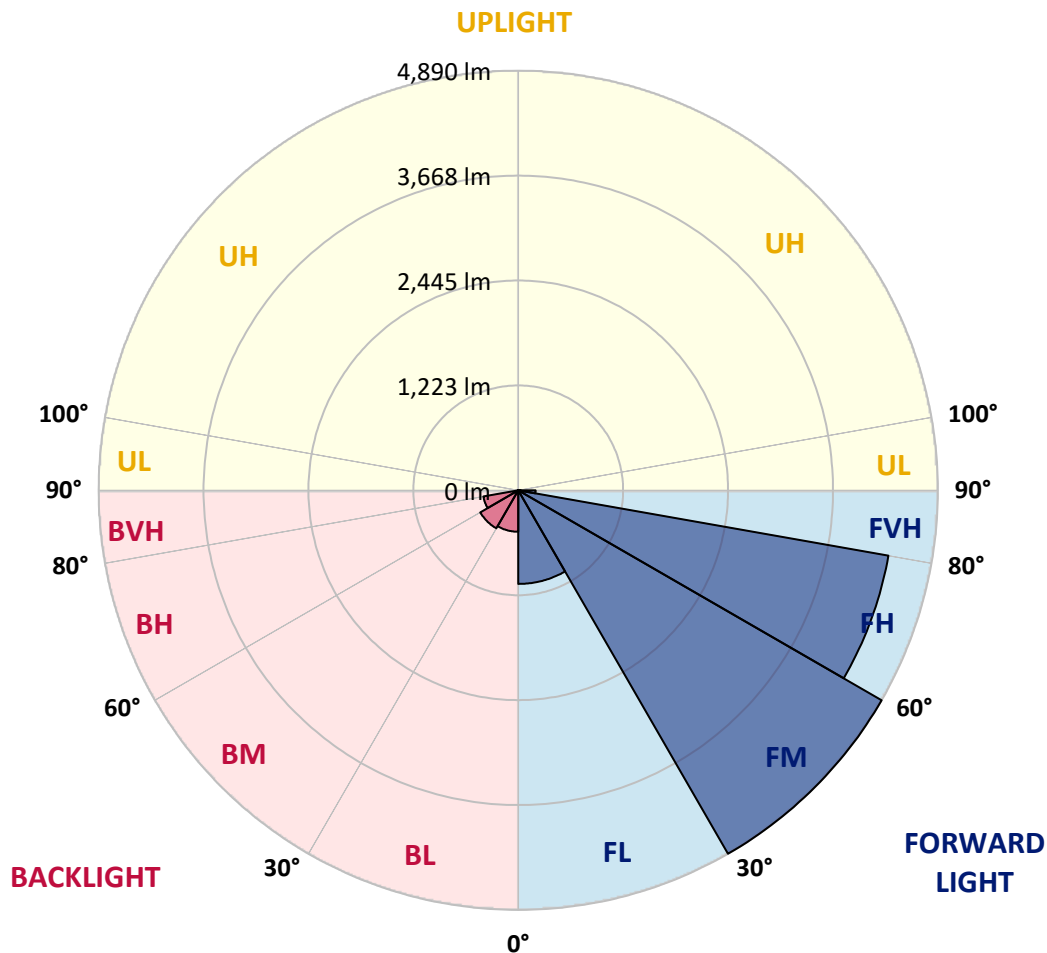


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1091.2	9.1			
FM (30°-60°)	4890.2	40.8			
FH (60°-80°)	4380.3	36.6			G2/5000
FVH (80°-90°)	201.6	1.7			G2/225
BL (0°-30°)	483.0	4.0	B1/500		
BM (30°-60°)	511.5	4.3	B1/1000		
BH (60°-80°)	412.4	3.4	B1/500		G1/500
BVH (80°-90°)	4.6	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°	64°	65°	75°	85°
0°	3026.1	3026.1	3026.1	3026.1	3026.1	3026.1	3026.1	3026.1	3026.1	3026.1	3026.1
2.5°	3053.0	3045.4	3051.4	3064.6	3071.2	3071.2	3076.3	3070.2	3072.2	3057.5	3036.2
5°	2861.9	2850.3	2867.0	2904.0	2949.6	2988.6	3046.4	3076.8	3079.8	3080.3	3055.5
7.5°	2656.2	2645.6	2670.4	2714.0	2772.7	2845.2	2946.0	3034.2	3039.3	3086.9	3068.7
10°	2489.0	2481.4	2510.3	2556.9	2625.8	2706.9	2830.5	2953.1	2967.8	3073.2	3066.6
12.5°	2356.2	2350.1	2377.5	2431.2	2501.7	2591.3	2720.6	2862.9	2882.7	3042.3	3056.5
15°	2259.4	2258.4	2281.2	2332.9	2411.0	2494.6	2626.8	2779.3	2802.1	3008.9	3055.0
17.5°	2208.8	2210.3	2227.0	2271.1	2338.0	2421.1	2547.8	2708.9	2733.7	2979.0	3062.6
20°	2203.7	2205.2	2214.3	2239.2	2293.4	2366.9	2483.4	2649.6	2675.5	2956.7	3074.7
22.5°	2248.3	2247.3	2249.8	2247.3	2277.7	2333.4	2440.8	2604.0	2633.9	2942.0	3084.4
25°	2333.9	2332.4	2331.4	2312.6	2292.4	2322.3	2423.1	2578.2	2606.5	2931.3	3089.9
27.5°	2453.0	2452.0	2450.5	2419.6	2358.8	2340.0	2425.1	2568.5	2592.4	2922.7	3088.9
30°	2609.6	2616.7	2614.7	2571.6	2476.8	2394.2	2446.4	2563.5	2584.2	2906.0	3078.3
32.5°	2793.5	2807.7	2818.9	2772.7	2654.2	2501.7	2495.6	2569.0	2584.2	2893.3	3059.0
35°	2984.6	3002.8	3043.8	3027.6	2871.6	2663.3	2580.2	2602.5	2615.2	2900.4	3049.9
37.5°	3172.5	3194.3	3283.5	3330.6	3156.3	2877.1	2711.9	2685.1	2691.7	2943.5	3060.1
40°	3390.9	3423.9	3559.2	3635.2	3496.3	3163.4	2909.1	2827.0	2829.5	3038.3	3107.2
42.5°	3677.7	3711.7	3858.1	3977.2	3879.4	3525.2	3176.6	3043.8	3041.3	3215.6	3218.1
45°	4027.4	4062.8	4214.4	4346.6	4302.5	3953.9	3519.1	3360.5	3357.5	3495.3	3428.4
47.5°	4423.6	4458.6	4593.9	4730.2	4777.8	4454.5	3955.4	3792.8	3785.7	3884.0	3753.2
50°	4763.6	4786.4	4911.1	5094.5	5309.4	5069.7	4498.1	4341.5	4333.9	4400.3	4230.1
52.5°	4887.3	4900.4	5027.1	5284.0	5820.1	5902.7	5211.1	5009.4	5003.8	5032.7	4865.0
55°	4637.0	4660.8	4816.3	5197.4	6096.8	6844.2	6111.0	5836.3	5794.3	5732.0	5528.8
57.5°	3954.9	3992.9	4160.1	4666.8	5967.6	7591.1	7433.5	6771.7	6709.9	6328.9	6068.4
60°	2963.3	3009.9	3148.7	3695.5	5277.9	7857.1	8878.7	7814.1	7674.7	6804.2	6564.5
62.5°	2033.4	2056.8	2151.0	2507.2	3887.0	7421.4	10087.7	9210.1	8955.7	7321.0	7101.1
65°	1553.1	1561.2	1599.7	1722.3	2314.7	6028.4	10568.6	11052.0	10744.4	7939.2	7658.0
67.5°	1251.6	1245.0	1298.2	1473.5	1550.0	3677.7	10007.6	12794.6	12650.7	8765.7	8218.4
69°	1103.6	1094.5	1148.7	1352.4	1455.8	2431.2	8946.6	13190.3	13199.4	9201.9	8256.9
70°	993.2	999.2	1053.0	1280.5	1423.9	1908.3	7933.1	13089.5	13161.4	9365.1	8025.9
72.5°	663.3	679.5	787.4	1063.1	1369.1	1444.1	4790.0	11232.4	11509.0	8997.7	6885.8
75°	374.0	386.1	514.3	801.6	1290.1	1375.2	2530.0	8275.2	8542.7	7524.2	5309.9
77.5°	183.4	190.0	290.9	517.4	1078.8	1310.4	1435.0	5621.0	5926.5	4911.1	3003.3
80°	77.5	81.1	145.4	319.2	771.2	1250.6	1065.6	3459.3	3497.3	1924.0	800.1
82.5°	29.9	30.9	61.3	199.1	490.0	974.9	891.3	1640.2	1600.7	362.3	182.4
85°	3.5	4.1	22.3	119.6	272.6	501.6	724.1	706.9	654.2	72.0	93.7
87.5°	0.0	0.0	1.5	36.5	81.1	235.1	376.5	293.4	264.5	23.3	48.6
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°	3026.1	3026.1	3026.1	3026.1	3026.1	3026.1	3026.1	3026.1	3026.1	3026.1	3026.1
2.5°	3018.5	3013.4	2986.1	2946.5	2909.1	2862.4	2817.8	2791.0	2769.7	2755.5	2772.2
5°	3026.6	3004.3	2921.2	2814.8	2710.4	2592.9	2483.4	2390.7	2354.2	2313.7	2331.9
7.5°	3024.1	2982.0	2832.5	2643.0	2451.5	2253.4	2065.9	1921.5	1846.5	1773.0	1791.7
10°	3011.4	2940.5	2714.0	2433.2	2146.4	1861.7	1595.6	1393.5	1280.5	1178.1	1192.8
12.5°	2983.5	2884.7	2574.1	2193.1	1809.5	1434.0	1122.4	863.4	724.6	663.3	670.9
15°	2966.8	2830.5	2426.2	1949.8	1449.7	998.7	686.1	510.3	446.9	426.7	429.2
17.5°	2958.7	2778.3	2273.1	1671.7	1081.8	635.9	443.4	391.2	377.5	374.0	375.0
20°	2950.6	2725.6	2115.5	1396.5	745.4	427.7	364.3	349.1	344.1	339.5	340.5
22.5°	2936.9	2674.9	1946.3	1117.8	502.7	347.1	328.4	313.7	303.0	297.4	298.5
25°	2920.2	2621.7	1773.5	832.5	366.9	309.6	291.9	271.1	258.4	248.3	248.8
27.5°	2893.3	2556.4	1595.1	606.0	308.1	277.2	253.4	230.6	209.3	197.6	197.6
30°	2855.8	2482.4	1397.0	433.7	276.2	245.3	216.4	188.0	165.2	154.5	153.5
32.5°	2814.3	2405.4	1196.9	328.9	250.8	215.4	182.4	152.5	132.3	123.6	123.1
35°	2778.8	2322.3	997.2	275.7	225.5	186.5	150.5	125.2	108.9	101.8	101.3
37.5°	2756.0	2239.2	802.6	246.3	202.7	159.6	126.2	103.4	91.7	86.1	85.6
40°	2752.5	2177.4	624.8	224.0	181.4	135.8	105.4	87.7	77.0	70.9	70.4
42.5°	2798.6	2141.9	479.4	205.2	159.6	115.0	89.7	75.0	63.8	57.8	57.3
45°	2919.7	2153.0	368.9	188.5	137.8	97.3	76.0	62.3	52.2	47.6	46.6
47.5°	3140.6	2230.1	293.4	171.8	117.1	82.6	64.9	51.7	43.1	38.5	38.0
50°	3533.8	2411.0	245.3	153.5	97.8	70.4	53.7	42.1	35.0	30.9	30.4
52.5°	4055.7	2733.2	218.9	135.8	81.1	59.8	44.1	33.4	27.4	24.3	23.8
55°	4631.4	3123.4	201.7	116.5	66.4	49.7	35.0	26.3	21.3	18.7	17.7
57.5°	5193.3	3461.4	185.5	97.8	55.2	40.5	27.9	20.8	16.7	14.2	13.7
60°	5709.7	3772.0	166.7	78.5	45.1	31.9	21.8	16.2	13.2	10.6	10.6
62.5°	6262.5	4012.2	140.9	61.3	37.0	24.3	17.7	14.7	10.6	9.1	8.6
65°	6848.3	4190.5	110.5	47.6	28.9	18.2	14.7	15.2	8.6	6.6	6.1
67.5°	7281.0	4155.1	81.6	37.5	22.3	14.2	14.2	16.2	7.6	5.1	4.6
69°	7185.7	3866.7	68.4	32.4	19.3	12.2	13.2	16.2	7.1	4.6	4.1
70°	6909.6	3547.5	60.3	28.9	17.2	11.1	12.7	15.7	6.6	4.6	4.1
72.5°	5754.3	2671.9	47.1	21.8	13.7	9.1	10.6	13.7	6.6	4.6	3.5
75°	4328.4	1710.2	36.0	15.7	10.1	7.1	8.1	10.1	6.6	4.1	3.5
77.5°	2355.2	616.7	25.8	10.6	7.1	5.6	5.6	7.6	6.1	3.0	2.0
80°	605.5	155.1	16.2	7.1	5.6	4.1	3.5	5.1	3.5	0.5	0.0
82.5°	149.5	35.0	8.6	5.1	4.1	1.5	1.5	2.5	1.5	0.0	0.0
85°	82.1	17.2	5.6	3.5	2.0	0.0	0.0	0.5	0.0	0.0	0.0
87.5°	42.1	5.1	1.5	1.0	0.5	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)