

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: P484550

Luminaire Tested: **IFLD-S-SA2D-830-U-SL3-HSS**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P484550  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA2D-830-U-SL3-HSS  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL3 distribution lens with House Side Shield  
Light Source: (32) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

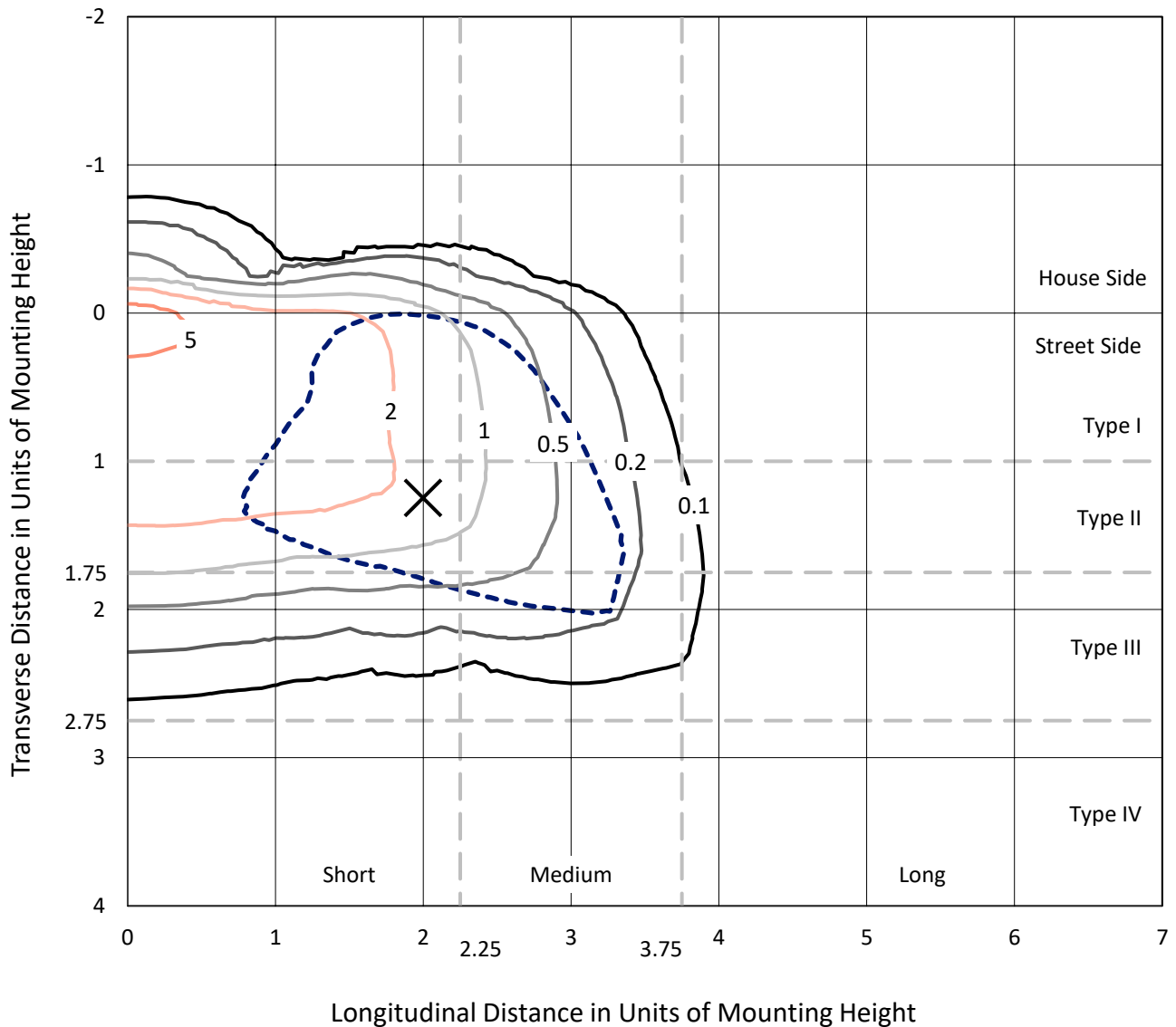
Lumens per Lamp: N/A  
Luminaire Lumens: 10392.8 lumens  
Efficiency: N/A  
Efficacy: 83.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G2

Input Watts (W): 123.9  
Input Voltage (V): 120  
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

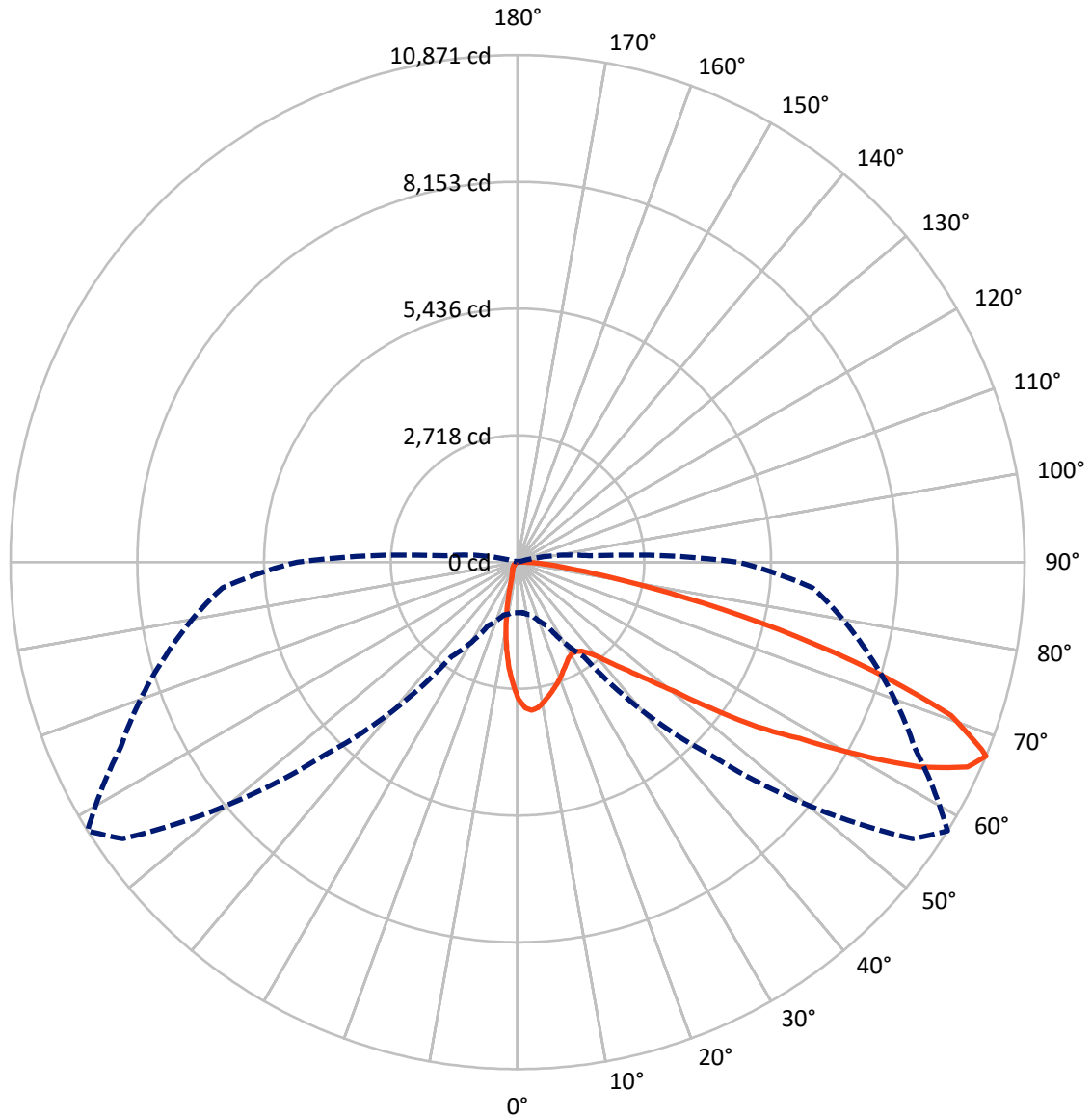
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 7.4 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral      - - - Horizontal Cone Through 67-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	859.0	0.0	859.0
	% Fixture	8.3	0.0	8.3
<b>Street Side</b>	Lumens	9533.7	0.0	9533.7
	% Fixture	91.7	0.0	91.7
<b>Total</b>	Lumens	10392.8	0.0	10392.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	233.6	2.2
10°-20°	484.6	4.7
20°-30°	642.9	6.2
30°-40°	890.9	8.6
40°-50°	1453.7	14.0
50°-60°	2555.1	24.6
60°-70°	2830.0	27.2
70°-80°	1172.8	11.3
80°-90°	129.1	1.2
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°	10392.8	100.0
0°-180°	10392.8	100.0

**Coefficient of Utilization**



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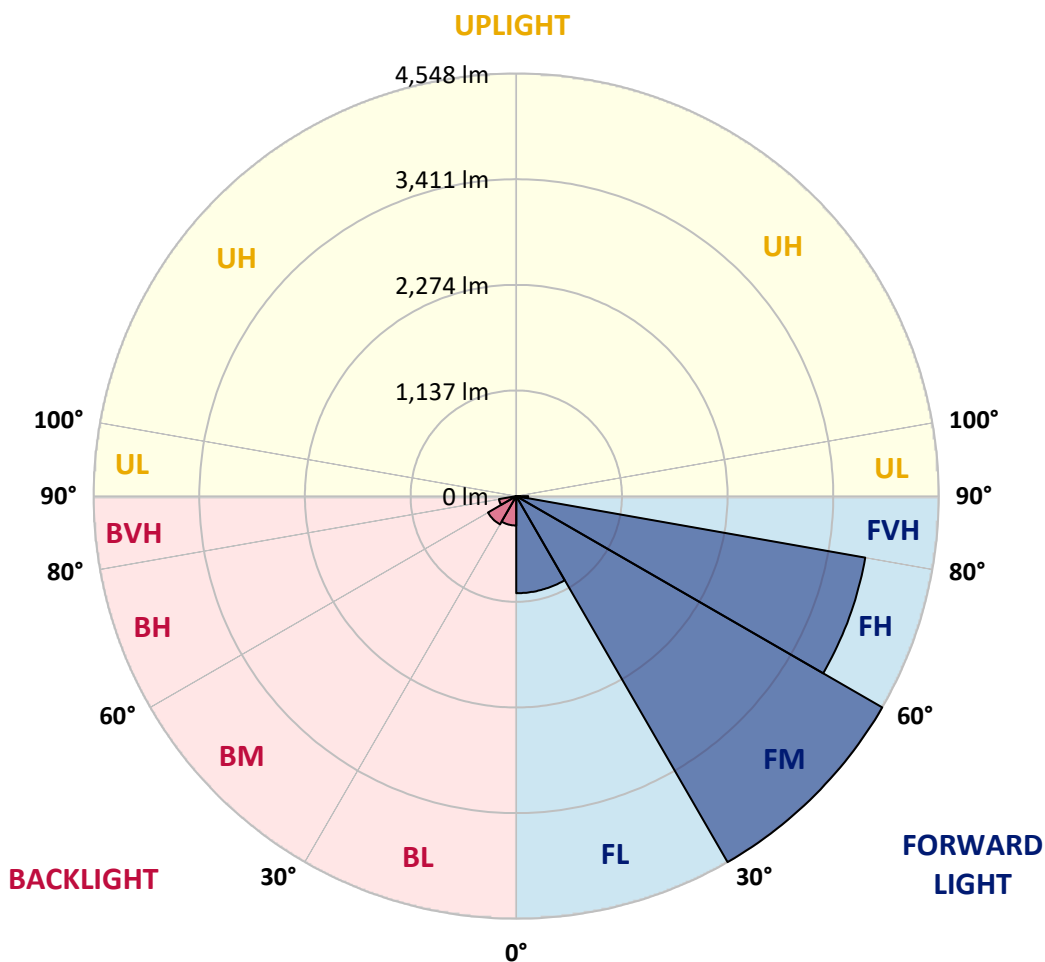
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1044.8	10.1			
FM (30°-60°)	4548.1	43.8			
FH (60°-80°)	3813.9	36.7			G2/5000
FVH (80°-90°)	127.0	1.2			G2/225
BL (0°-30°)	316.4	3.0	B1/500		
BM (30°-60°)	351.7	3.4	B1/1000		
BH (60°-80°)	188.9	1.8	B1/500		G1/500
BVH (80°-90°)	2.1	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 Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	2944.4	2944.4	2944.4	2944.4	2944.4	2944.4	2944.4	2944.4	2944.4	2944.4	2944.4
2.5°	3203.8	3214.8	3224.5	3206.6	3221.7	3199.7	3143.1	3130.7	3121.0	3036.9	2988.6
5°	3202.4	3190.0	3199.7	3208.0	3187.3	3203.8	3190.0	3191.4	3154.1	3078.3	2943.0
7.5°	2988.6	2983.0	2988.6	3028.6	3074.1	3110.0	3130.7	3151.4	3126.5	3013.4	2882.3
10°	2700.2	2727.8	2743.0	2814.7	2885.1	2951.3	3016.2	3054.8	3047.9	3002.4	2816.1
12.5°	2498.8	2490.5	2545.7	2592.6	2662.9	2796.8	2909.9	2945.8	2987.2	2923.7	2729.2
15°	2312.5	2290.4	2323.5	2404.9	2525.0	2631.2	2789.9	2843.7	2896.1	2912.7	2682.3
17.5°	2134.5	2145.5	2180.0	2253.2	2366.3	2515.3	2664.3	2741.6	2867.1	2845.1	2611.9
20°	2048.9	2072.4	2084.8	2122.1	2200.7	2349.7	2571.9	2634.0	2767.8	2843.7	2542.9
22.5°	2053.1	2053.1	2024.1	2046.2	2117.9	2233.8	2446.3	2515.3	2727.8	2771.9	2480.8
25°	2097.2	2069.6	2071.0	2044.8	2075.2	2138.6	2333.2	2417.3	2646.4	2778.8	2447.7
27.5°	2130.4	2124.8	2116.6	2109.7	2071.0	2080.7	2258.7	2327.7	2614.7	2770.6	2396.6
30°	2250.4	2225.6	2217.3	2202.1	2151.1	2104.1	2199.3	2286.3	2589.8	2789.9	2367.7
32.5°	2351.1	2355.3	2362.2	2318.0	2273.9	2158.0	2215.9	2284.9	2571.9	2834.0	2396.6
35°	2478.1	2496.0	2498.8	2485.0	2438.0	2323.5	2284.9	2344.2	2602.2	2912.7	2399.4
37.5°	2671.2	2651.9	2704.3	2709.9	2676.7	2525.0	2444.9	2468.4	2691.9	3038.2	2504.3
40°	2796.8	2820.2	2918.2	2978.9	2922.3	2784.4	2676.7	2672.6	2821.6	3235.5	2634.0
42.5°	2936.1	2988.6	3096.2	3227.3	3220.4	3092.1	2983.0	2965.1	3052.0	3521.2	2839.6
45°	3126.5	3173.5	3323.9	3521.2	3628.8	3519.8	3355.6	3319.7	3332.1	3910.3	3190.0
47.5°	3442.5	3430.1	3646.7	3841.3	4017.9	3933.7	3863.3	3758.5	3748.8	4368.3	3674.3
50°	3799.9	3797.1	3990.3	4211.0	4415.2	4579.4	4462.2	4347.6	4350.4	4990.6	4244.2
52.5°	4139.3	4193.1	4401.4	4620.8	4971.3	5147.9	5261.0	5215.5	4996.1	5546.7	4854.0
55°	4318.7	4365.6	4572.5	4950.6	5503.9	5957.8	6264.1	6225.5	5801.9	6173.1	5455.6
57.5°	4149.0	4180.7	4460.8	4956.1	5876.4	6889.2	7183.1	7134.8	6635.3	6651.8	6182.7
60°	3438.4	3488.0	3904.7	4485.6	5731.5	7606.6	8448.3	8375.2	7394.2	7257.6	6650.5
62.5°	2381.5	2414.6	2756.8	3479.8	5044.4	7856.4	9643.2	9683.2	8194.4	7729.4	6789.8
65°	1542.6	1539.8	1735.7	2225.6	3575.0	7100.3	10349.6	10598.0	8967.1	7801.2	6747.0
67°	1090.0	1085.9	1178.3	1509.5	2475.3	5850.2	10337.2	10871.2	9386.5	7821.9	6351.1
67.5°	1005.8	1001.7	1090.0	1388.0	2233.8	5440.4	10182.7	10730.4	9534.2	7792.9	6177.2
70°	780.9	769.9	803.0	956.2	1301.1	3518.4	8714.6	9857.0	9227.9	7069.9	4932.7
72.5°	564.3	576.7	629.2	785.1	1021.0	1893.0	6642.2	7970.9	7707.4	5328.6	3134.8
75°	393.2	404.3	488.4	640.2	936.9	1148.0	4491.1	5781.2	5368.7	2941.7	1335.6
77.5°	205.6	219.4	311.8	511.9	851.3	888.6	2683.6	3666.0	2845.1	1047.2	368.4
80°	95.2	102.1	155.9	362.9	712.0	780.9	1564.7	2039.3	1138.3	234.6	126.9
82.5°	41.4	45.5	71.7	208.3	505.0	683.0	968.6	1069.3	412.5	75.9	78.6
85°	8.3	9.7	27.6	110.4	244.2	413.9	680.2	634.7	207.0	37.3	62.1
87.5°	0.0	0.0	6.9	31.7	66.2	122.8	288.4	288.4	63.5	19.3	23.5
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°	2944.4	2944.4	2944.4	2944.4	2944.4	2944.4	2944.4	2944.4	2944.4	2944.4	2944.4
2.5°	2945.8	2896.1	2787.1	2686.4	2614.7	2533.2	2425.6	2377.3	2359.4	2334.6	2297.3
5°	2868.5	2807.8	2621.6	2433.9	2228.3	2072.4	1906.8	1810.3	1737.1	1691.6	1676.4
7.5°	2759.5	2635.3	2384.2	2083.4	1817.1	1585.3	1334.2	1164.5	1055.5	1011.4	970.0
10°	2672.6	2511.2	2129.0	1755.1	1400.5	1061.0	778.2	629.2	516.0	473.3	467.7
12.5°	2559.5	2366.3	1890.3	1419.8	974.1	631.9	430.5	373.9	342.2	336.7	332.5
15°	2465.6	2235.2	1664.0	1099.7	630.6	394.6	335.3	321.5	313.2	310.4	311.8
17.5°	2402.2	2094.5	1432.2	800.3	415.3	322.9	309.1	300.8	296.6	295.3	291.1
20°	2276.6	1975.8	1203.2	560.2	324.2	298.0	287.0	280.1	276.0	274.6	273.2
22.5°	2204.9	1825.4	974.1	390.5	288.4	270.4	262.2	256.6	249.7	245.6	244.2
25°	2133.1	1715.0	769.9	303.5	262.2	249.7	237.3	230.4	219.4	213.9	212.5
27.5°	2048.9	1606.0	593.3	263.5	235.9	223.5	211.1	200.1	186.3	180.7	178.0
30°	2000.7	1499.8	447.0	235.9	216.6	200.1	184.9	171.1	155.9	146.3	143.5
32.5°	1975.8	1403.2	335.3	215.2	195.9	178.0	158.7	142.1	128.3	120.0	118.7
35°	1945.5	1309.4	263.5	195.9	176.6	157.3	138.0	121.4	107.6	100.7	98.0
37.5°	1977.2	1254.2	219.4	180.7	161.4	139.4	118.7	102.1	91.1	84.2	82.8
40°	2064.1	1208.7	190.4	167.0	146.3	122.8	103.5	86.9	77.3	71.7	69.0
42.5°	2198.0	1208.7	172.5	153.2	132.5	107.6	88.3	75.9	66.2	60.7	59.3
45°	2440.8	1245.9	157.3	139.4	115.9	92.4	75.9	63.5	53.8	48.3	46.9
47.5°	2781.6	1331.5	144.9	126.9	103.5	81.4	66.2	53.8	44.2	38.6	37.3
50°	3239.7	1526.0	132.5	111.8	92.4	70.4	55.2	42.8	34.5	29.0	27.6
52.5°	3810.9	1802.0	120.0	103.5	78.6	59.3	44.2	34.5	26.2	22.1	20.7
55°	4415.2	2140.0	104.9	92.4	67.6	49.7	35.9	26.2	19.3	16.6	15.2
57.5°	5023.7	2400.8	92.4	80.0	55.2	40.0	29.0	20.7	13.8	11.0	9.7
60°	5346.6	2425.6	80.0	66.2	44.2	31.7	22.1	15.2	9.7	6.9	5.5
62.5°	5396.3	2204.9	69.0	53.8	35.9	24.8	15.2	11.0	5.5	2.8	2.8
65°	5141.0	1837.8	59.3	42.8	27.6	17.9	11.0	6.9	2.8	1.4	0.0
67°	4727.1	1539.8	51.1	35.9	22.1	13.8	8.3	4.1	1.4	0.0	0.0
67.5°	4567.0	1457.0	48.3	33.1	20.7	12.4	6.9	4.1	1.4	0.0	0.0
70°	3544.6	1040.3	35.9	23.5	15.2	9.7	5.5	2.8	0.0	0.0	0.0
72.5°	2171.7	608.5	27.6	16.6	11.0	6.9	4.1	1.4	0.0	0.0	0.0
75°	910.6	209.7	23.5	12.4	8.3	4.1	2.8	1.4	0.0	0.0	0.0
77.5°	237.3	78.6	16.6	8.3	5.5	4.1	2.8	1.4	0.0	0.0	0.0
80°	96.6	35.9	11.0	5.5	5.5	4.1	2.8	1.4	0.0	0.0	0.0
82.5°	63.5	16.6	6.9	5.5	4.1	2.8	1.4	0.0	0.0	0.0	0.0
85°	48.3	9.7	4.1	4.1	2.8	1.4	0.0	0.0	0.0	0.0	0.0
87.5°	20.7	5.5	4.1	2.8	2.8	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)