

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: P484276

Luminaire Tested: **IFLD-S-SA2C-727-U-SL3-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P484276
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2C-727-U-SL3-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL3 distribution lens with House Side Shield
Light Source: (32) 2700K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

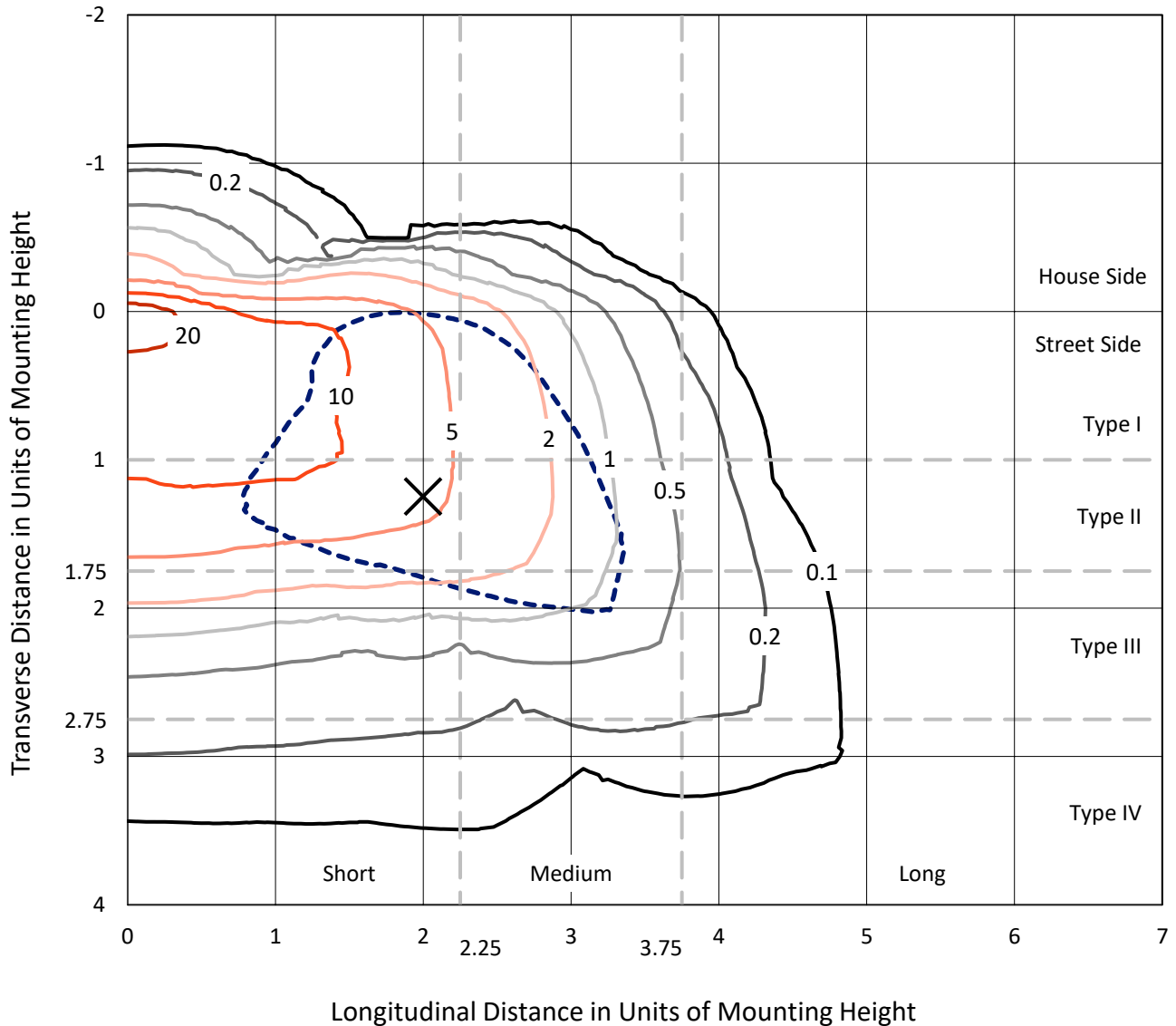
Lumens per Lamp: N/A
Luminaire Lumens: 9940.8 lumens
Efficiency: N/A
Efficacy: 91.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 108.2
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

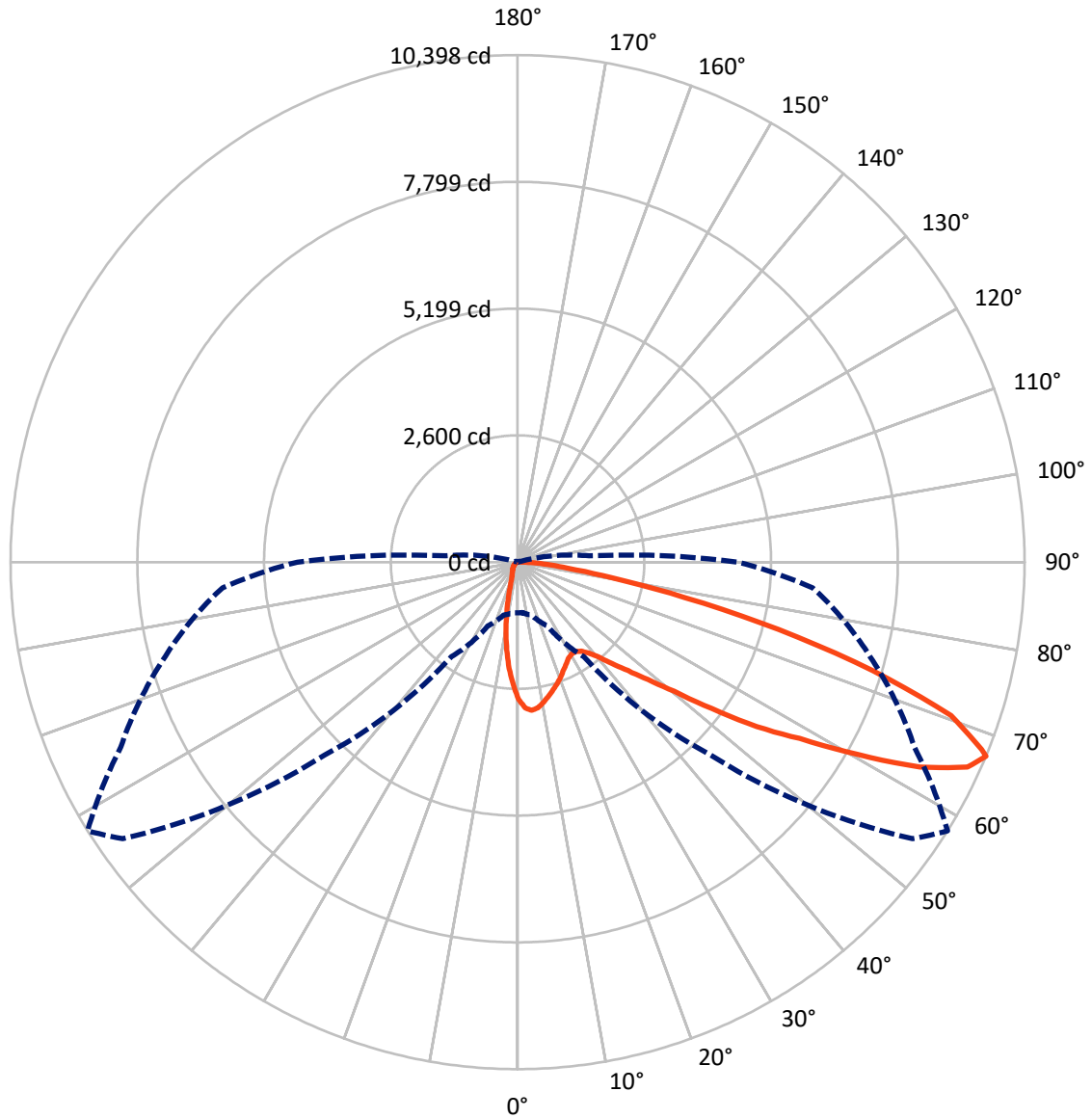
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 28.2 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
House Side	Lumens	821.7	0.0	821.7
	% Fixture	8.3	0.0	8.3
Street Side	Lumens	9119.1	0.0	9119.1
	% Fixture	91.7	0.0	91.7
Total	Lumens	9940.8	0.0	9940.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	223.5	2.2
10°-20°	463.5	4.7
20°-30°	615.0	6.2
30°-40°	852.2	8.6
40°-50°	1390.5	14.0
50°-60°	2444.0	24.6
60°-70°	2706.9	27.2
70°-80°	1121.8	11.3
80°-90°	123.5	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°	9940.8	100.0
0°-180°	9940.8	100.0



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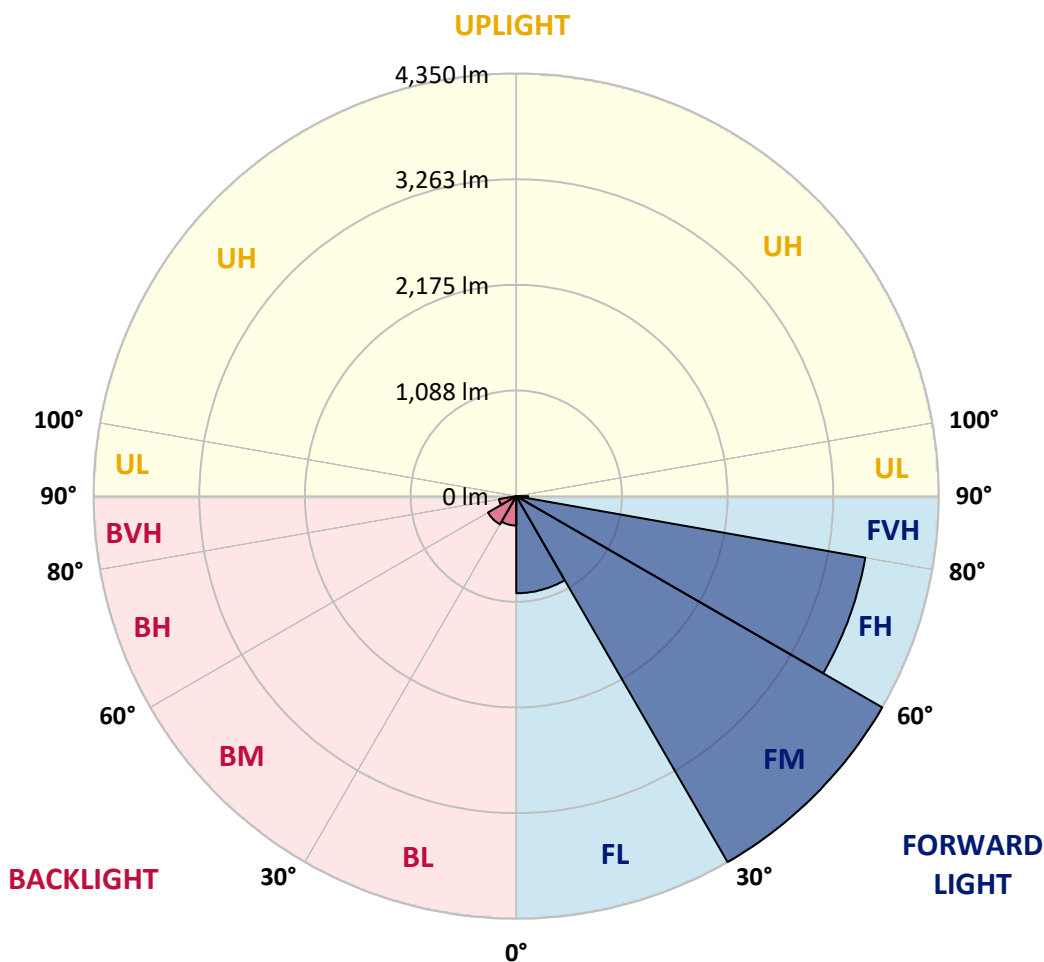
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	999.3	10.1			
FM (30°-60°)	4350.3	43.8			
FH (60°-80°)	3648.0	36.7			G2/5000
FVH (80°-90°)	121.5	1.2			G2/225
BL (0°-30°)	302.6	3.0	B1/500		
BM (30°-60°)	336.4	3.4	B1/1000		
BH (60°-80°)	180.7	1.8	B1/500		G1/500
BVH (80°-90°)	2.0	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°	2816.4	2816.4	2816.4	2816.4	2816.4	2816.4	2816.4	2816.4	2816.4	2816.4	2816.4
2.5°	3064.5	3075.0	3084.3	3067.1	3081.6	3060.5	3006.4	2994.5	2985.3	2904.8	2858.6
5°	3063.1	3051.3	3060.5	3068.4	3048.6	3064.5	3051.3	3052.6	3017.0	2944.4	2815.0
7.5°	2858.6	2853.3	2858.6	2896.9	2940.4	2974.7	2994.5	3014.3	2990.6	2882.3	2757.0
10°	2582.8	2609.2	2623.7	2692.3	2759.6	2823.0	2885.0	2921.9	2915.3	2871.8	2693.6
12.5°	2390.1	2382.2	2434.9	2479.8	2547.1	2675.1	2783.4	2817.7	2857.3	2796.6	2610.5
15°	2211.9	2190.8	2222.5	2300.3	2415.1	2516.8	2668.5	2720.0	2770.2	2786.0	2565.6
17.5°	2041.7	2052.2	2085.2	2155.2	2263.4	2405.9	2548.4	2622.3	2742.4	2721.3	2498.3
20°	1959.8	1982.3	1994.1	2029.8	2105.0	2247.5	2460.0	2519.4	2647.4	2720.0	2432.3
22.5°	1963.8	1963.8	1936.1	1957.2	2025.8	2136.7	2339.9	2405.9	2609.2	2651.4	2372.9
25°	2006.0	1979.6	1980.9	1955.9	1984.9	2045.6	2231.7	2312.2	2531.3	2658.0	2341.2
27.5°	2037.7	2032.4	2024.5	2017.9	1980.9	1990.2	2160.4	2226.4	2500.9	2650.1	2292.4
30°	2152.5	2128.8	2120.8	2106.3	2057.5	2012.6	2103.7	2186.8	2477.2	2668.5	2264.7
32.5°	2248.9	2252.8	2259.4	2217.2	2175.0	2064.1	2119.5	2185.5	2460.0	2710.8	2292.4
35°	2370.3	2387.4	2390.1	2376.9	2332.0	2222.5	2185.5	2242.3	2489.1	2786.0	2295.1
37.5°	2555.0	2536.6	2586.7	2592.0	2560.3	2415.1	2338.6	2361.0	2574.8	2906.1	2395.4
40°	2675.1	2697.6	2791.3	2849.3	2795.2	2663.3	2560.3	2556.4	2698.9	3094.8	2519.4
42.5°	2808.4	2858.6	2961.5	3086.9	3080.3	2957.6	2853.3	2836.2	2919.3	3368.0	2716.1
45°	2990.6	3035.4	3179.3	3368.0	3471.0	3366.7	3209.6	3175.3	3187.2	3740.2	3051.3
47.5°	3292.8	3280.9	3488.1	3674.2	3843.1	3762.6	3695.3	3595.0	3585.8	4178.3	3514.5
50°	3634.6	3632.0	3816.7	4027.9	4223.2	4380.3	4268.1	4158.5	4161.2	4773.5	4059.6
52.5°	3959.3	4010.7	4210.0	4419.9	4755.1	4924.0	5032.2	4988.7	4778.8	5305.4	4642.9
55°	4130.8	4175.7	4373.7	4735.3	5264.5	5698.7	5991.7	5954.7	5549.6	5904.6	5218.3
57.5°	3968.5	3998.9	4266.8	4740.6	5620.8	6589.5	6870.6	6824.4	6346.7	6362.5	5913.8
60°	3288.8	3336.3	3734.9	4290.5	5482.3	7275.8	8080.8	8010.9	7072.6	6941.9	6361.2
62.5°	2277.9	2309.6	2636.9	3328.4	4825.0	7514.7	9223.8	9262.0	7838.0	7393.3	6494.5
65°	1475.5	1472.8	1660.2	2128.8	3419.5	6791.5	9899.5	10137.0	8577.1	7461.9	6453.6
67°	1042.6	1038.6	1127.1	1443.8	2367.6	5595.8	9887.6	10398.3	8978.3	7481.7	6074.8
67.5°	962.1	958.1	1042.6	1327.7	2136.7	5203.8	9739.8	10263.7	9119.5	7454.0	5908.5
70°	747.0	736.4	768.1	914.6	1244.5	3365.4	8335.6	9428.3	8826.5	6762.4	4718.1
72.5°	539.8	551.7	601.8	750.9	976.6	1810.7	6353.3	7624.2	7372.1	5096.9	2998.5
75°	376.1	386.7	467.2	612.4	896.1	1098.0	4295.8	5529.8	5135.2	2813.7	1277.5
77.5°	196.6	209.8	298.3	489.6	814.3	849.9	2566.9	3506.6	2721.3	1001.7	352.4
80°	91.1	97.7	149.1	347.1	681.0	747.0	1496.6	1950.6	1088.8	224.4	121.4
82.5°	39.6	43.6	68.6	199.3	483.0	653.3	926.5	1022.8	394.6	72.6	75.2
85°	7.9	9.2	26.4	105.6	233.6	395.9	650.6	607.1	198.0	35.6	59.4
87.5°	0.0	0.0	6.6	30.4	63.3	117.5	275.8	275.8	60.7	18.5	22.4
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°	2816.4	2816.4	2816.4	2816.4	2816.4	2816.4	2816.4	2816.4	2816.4	2816.4	2816.4
2.5°	2817.7	2770.2	2665.9	2569.6	2500.9	2423.1	2320.1	2273.9	2256.8	2233.0	2197.4
5°	2743.8	2685.7	2507.5	2328.0	2131.4	1982.3	1823.9	1731.5	1661.6	1618.0	1603.5
7.5°	2639.5	2520.7	2280.5	1992.8	1738.1	1516.4	1276.2	1113.9	1009.6	967.4	927.8
10°	2556.4	2402.0	2036.4	1678.7	1339.5	1014.9	744.3	601.8	493.6	452.7	447.4
12.5°	2448.1	2263.4	1808.1	1358.0	931.7	604.4	411.8	357.7	327.3	322.0	318.1
15°	2358.4	2138.0	1591.6	1051.8	603.1	377.4	320.7	307.5	299.6	296.9	298.3
17.5°	2297.7	2003.4	1369.9	765.5	397.2	308.8	295.6	287.7	283.7	282.4	278.5
20°	2177.6	1889.9	1150.8	535.8	310.1	285.1	274.5	267.9	264.0	262.6	261.3
22.5°	2109.0	1746.0	931.7	373.5	275.8	258.7	250.8	245.5	238.9	234.9	233.6
25°	2040.3	1640.5	736.4	290.3	250.8	238.9	227.0	220.4	209.8	204.6	203.2
27.5°	1959.8	1536.2	567.5	252.1	225.7	213.8	201.9	191.4	178.2	172.9	170.2
30°	1913.6	1434.6	427.6	225.7	207.2	191.4	176.8	163.6	149.1	139.9	137.3
32.5°	1889.9	1342.2	320.7	205.9	187.4	170.2	151.8	135.9	122.7	114.8	113.5
35°	1860.9	1252.4	252.1	187.4	168.9	150.5	132.0	116.1	102.9	96.3	93.7
37.5°	1891.2	1199.7	209.8	172.9	154.4	133.3	113.5	97.7	87.1	80.5	79.2
40°	1974.4	1156.1	182.1	159.7	139.9	117.5	99.0	83.1	73.9	68.6	66.0
42.5°	2102.4	1156.1	165.0	146.5	126.7	102.9	84.5	72.6	63.3	58.1	56.7
45°	2334.6	1191.7	150.5	133.3	110.9	88.4	72.6	60.7	51.5	46.2	44.9
47.5°	2660.6	1273.6	138.6	121.4	99.0	77.9	63.3	51.5	42.2	37.0	35.6
50°	3098.8	1459.6	126.7	106.9	88.4	67.3	52.8	40.9	33.0	27.7	26.4
52.5°	3645.2	1723.6	114.8	99.0	75.2	56.7	42.2	33.0	25.1	21.1	19.8
55°	4223.2	2046.9	100.3	88.4	64.7	47.5	34.3	25.1	18.5	15.8	14.5
57.5°	4805.2	2296.4	88.4	76.5	52.8	38.3	27.7	19.8	13.2	10.6	9.2
60°	5114.0	2320.1	76.5	63.3	42.2	30.4	21.1	14.5	9.2	6.6	5.3
62.5°	5161.6	2109.0	66.0	51.5	34.3	23.8	14.5	10.6	5.3	2.6	2.6
65°	4917.4	1757.9	56.7	40.9	26.4	17.2	10.6	6.6	2.6	1.3	0.0
67°	4521.5	1472.8	48.8	34.3	21.1	13.2	7.9	4.0	1.3	0.0	0.0
67.5°	4368.4	1393.7	46.2	31.7	19.8	11.9	6.6	4.0	1.3	0.0	0.0
70°	3390.4	995.1	34.3	22.4	14.5	9.2	5.3	2.6	0.0	0.0	0.0
72.5°	2077.3	582.0	26.4	15.8	10.6	6.6	4.0	1.3	0.0	0.0	0.0
75°	871.0	200.6	22.4	11.9	7.9	4.0	2.6	1.3	0.0	0.0	0.0
77.5°	227.0	75.2	15.8	7.9	5.3	4.0	2.6	1.3	0.0	0.0	0.0
80°	92.4	34.3	10.6	5.3	5.3	4.0	2.6	1.3	0.0	0.0	0.0
82.5°	60.7	15.8	6.6	5.3	4.0	2.6	1.3	0.0	0.0	0.0	0.0
85°	46.2	9.2	4.0	4.0	2.6	1.3	0.0	0.0	0.0	0.0	0.0
87.5°	19.8	5.3	4.0	2.6	2.6	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)