

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: P484584

Luminaire Tested: **IFLD-L-SA8C-830-U-SL3-HSS**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P484584  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA8C-830-U-SL3-HSS  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL3 distribution lens with House Side Shield  
Light Source: (128) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

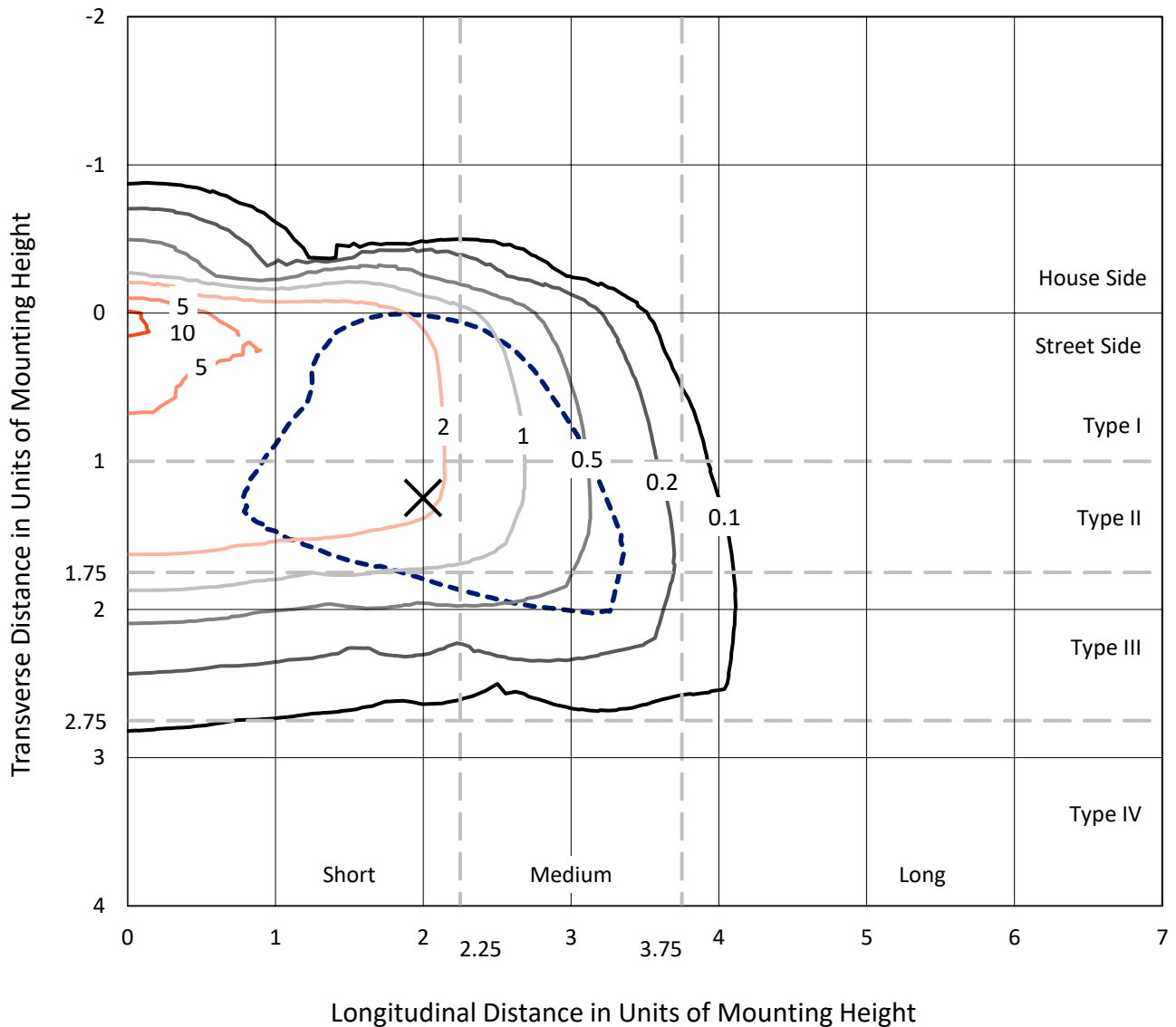
Lumens per Lamp: N/A  
Luminaire Lumens: 33667.2 lumens  
Efficiency: N/A  
Efficacy: 80.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G5

Input Watts (W): 420.3  
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

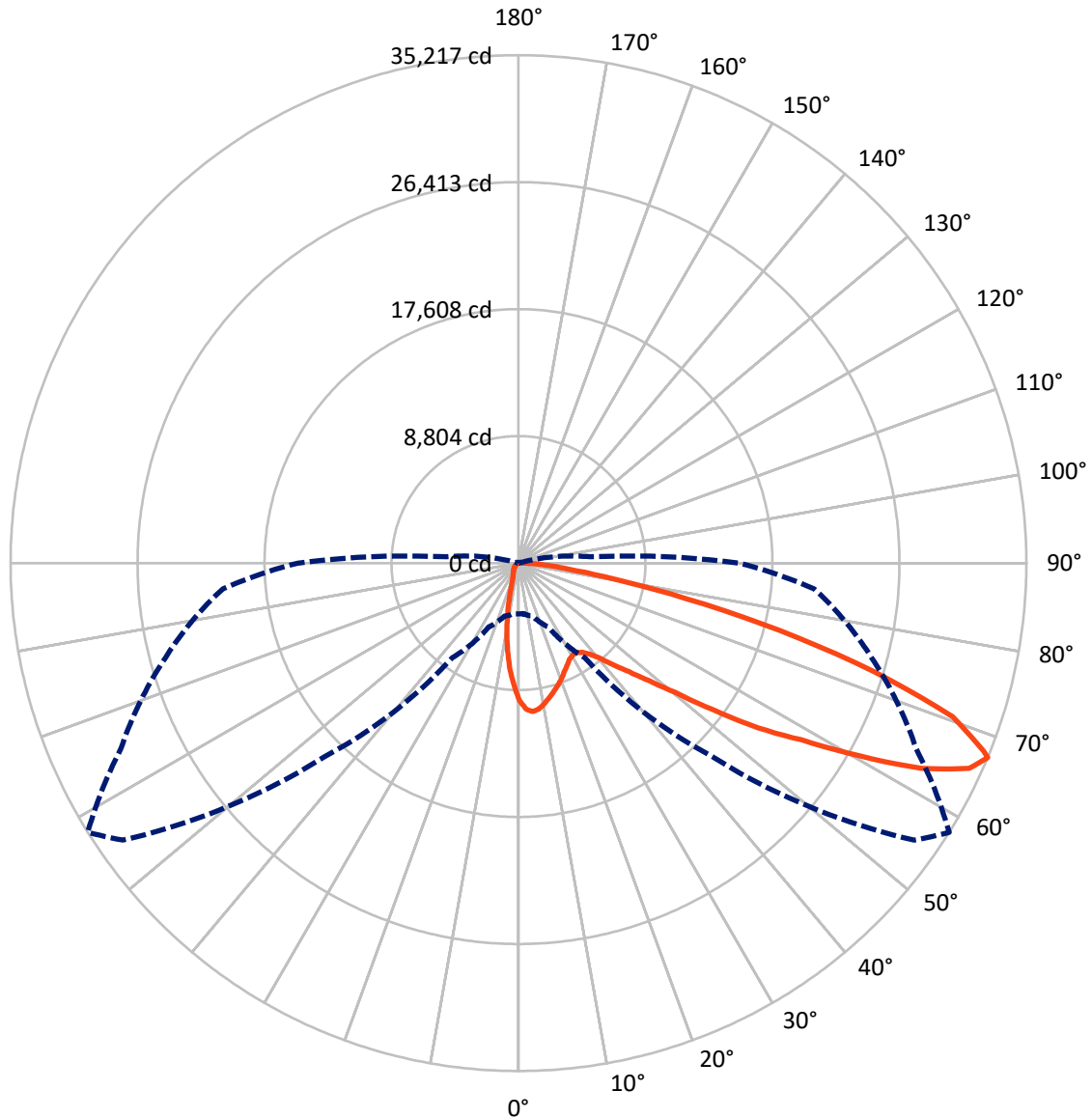
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 10.6 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	2782.8	0.0	2782.8
	% Fixture	8.3	0.0	8.3
<b>Street Side</b>	Lumens	30884.4	0.0	30884.4
	% Fixture	91.7	0.0	91.7
<b>Total</b>	Lumens	33667.2	0.0	33667.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	756.8	2.2
10°-20°	1569.8	4.7
20°-30°	2082.8	6.2
30°-40°	2886.1	8.6
40°-50°	4709.2	14.0
50°-60°	8277.3	24.6
60°-70°	9167.8	27.2
70°-80°	3799.1	11.3
80°-90°	418.2	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°	33667.2	100.0
0°-180°	33667.2	100.0

**Coefficient of Utilization**



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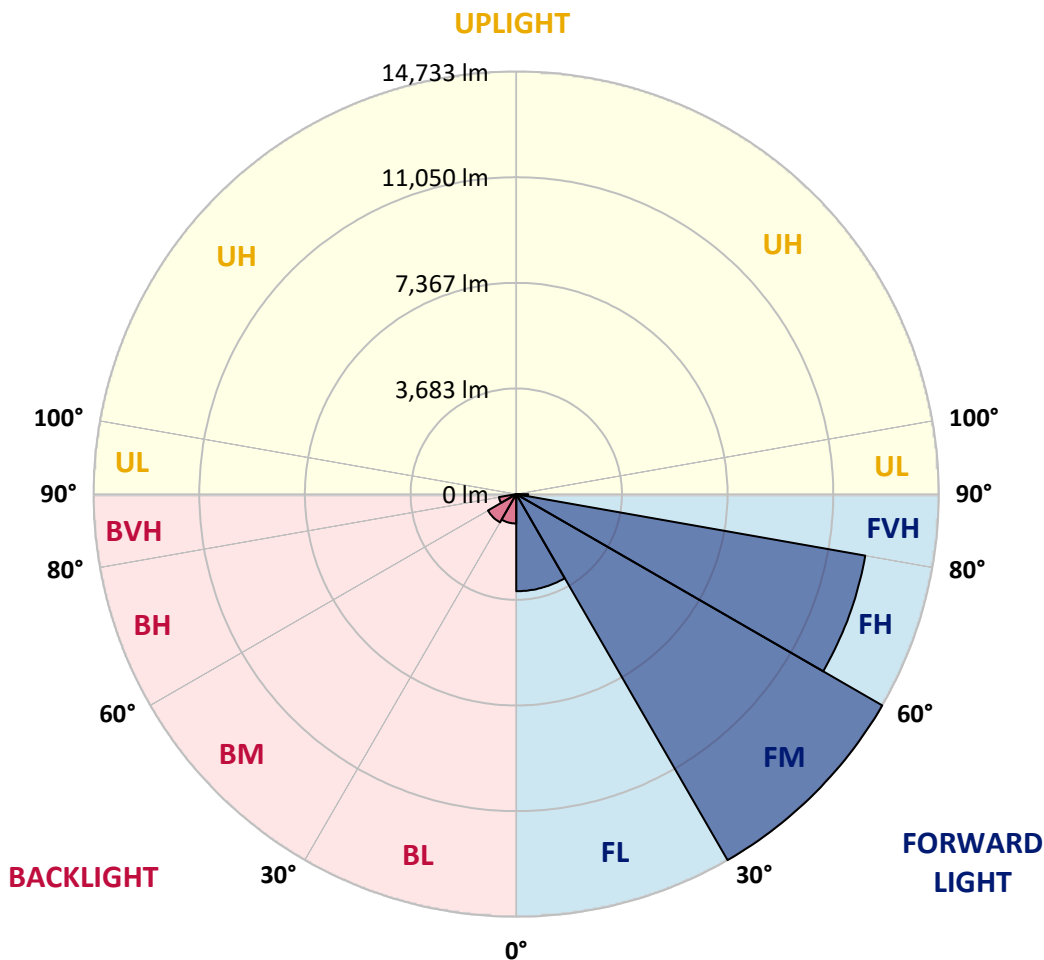
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3384.5	10.1			
FM (30°-60°)	14733.5	43.8			
FH (60°-80°)	12355.1	36.7			G5
FVH (80°-90°)	411.3	1.2			G3/500
BL (0°-30°)	1024.9	3.0	B3/2500		
BM (30°-60°)	1139.2	3.4	B2/2500		
BH (60°-80°)	611.8	1.8	B2/1000		G2/1000
BVH (80°-90°)	6.9	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G5**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	9538.4	9538.4	9538.4	9538.4	9538.4	9538.4	9538.4	9538.4	9538.4	9538.4	9538.4
2.5°	10378.7	10414.5	10445.7	10387.6	10436.8	10365.3	10182.0	10141.8	10110.5	9837.9	9681.4
5°	10374.2	10334.0	10365.3	10392.1	10325.1	10378.7	10334.0	10338.5	10217.8	9971.9	9533.9
7.5°	9681.4	9663.5	9681.4	9811.0	9958.5	10074.8	10141.8	10208.8	10128.4	9761.9	9337.2
10°	8747.2	8836.6	8885.8	9118.2	9346.2	9560.7	9770.8	9896.0	9873.6	9726.1	9122.7
12.5°	8094.7	8067.8	8246.6	8398.6	8626.6	9060.1	9426.6	9542.9	9676.9	9471.3	8841.1
15°	7491.3	7419.7	7527.0	7790.7	8179.6	8523.8	9037.8	9212.1	9381.9	9435.6	8689.1
17.5°	6914.7	6950.4	7062.2	7299.1	7665.6	8148.3	8631.0	8881.3	9288.1	9216.6	8461.2
20°	6637.5	6713.5	6753.7	6874.4	7129.2	7611.9	8331.6	8532.7	8966.3	9212.1	8237.7
22.5°	6650.9	6650.9	6557.1	6628.6	6861.0	7236.5	7924.8	8148.3	8836.6	8979.7	8036.6
25°	6794.0	6704.6	6709.1	6624.1	6722.5	6928.1	7558.3	7831.0	8572.9	9002.0	7929.3
27.5°	6901.3	6883.4	6856.6	6834.2	6709.1	6740.3	7316.9	7540.4	8470.1	8975.2	7763.9
30°	7290.1	7209.7	7182.8	7133.7	6968.3	6816.3	7124.7	7406.3	8389.7	9037.8	7670.0
32.5°	7616.4	7629.8	7652.2	7509.1	7366.1	6990.6	7178.4	7401.9	8331.6	9180.8	7763.9
35°	8027.6	8085.7	8094.7	8050.0	7898.0	7527.0	7401.9	7594.1	8429.9	9435.6	7772.8
37.5°	8653.4	8590.8	8760.7	8778.5	8671.3	8179.6	7920.3	7996.3	8720.4	9842.3	8112.5
40°	9060.1	9136.1	9453.5	9650.1	9466.9	9019.9	8671.3	8657.9	9140.6	10481.5	8532.7
42.5°	9511.6	9681.4	10030.1	10454.7	10432.3	10016.6	9663.5	9605.4	9887.0	11406.7	9198.7
45°	10128.4	10280.4	10767.6	11406.7	11755.4	11402.3	10870.4	10754.2	10794.4	12667.2	10334.0
47.5°	11152.0	11111.7	11813.5	12443.7	13015.8	12743.2	12515.2	12175.5	12144.2	14151.1	11902.9
50°	12309.6	12300.7	12926.4	13641.6	14303.1	14835.0	14455.1	14084.1	14093.0	16167.0	13748.9
52.5°	13409.2	13583.5	14258.4	14969.1	16104.4	16676.5	17043.0	16895.5	16184.9	17968.3	15724.5
55°	13990.2	14142.2	14812.7	16037.4	17829.7	19300.3	20292.5	20167.4	18795.2	19997.5	17673.3
57.5°	13440.5	13543.3	14450.6	16055.2	19036.5	22317.3	23269.4	23112.9	21494.9	21548.5	20028.8
60°	11138.5	11299.5	12649.3	14531.1	18567.2	24641.6	27368.1	27131.2	23953.2	23510.7	21544.1
62.5°	7714.7	7822.0	8930.5	11272.6	16341.3	25450.6	31238.9	31368.5	26545.7	25039.4	21995.5
65°	4997.1	4988.2	5622.9	7209.7	11581.0	23001.2	33527.4	34331.9	29048.7	25271.8	21856.9
67°	3531.1	3517.7	3817.1	4889.9	8018.7	18951.6	33487.2	35216.9	30407.5	25338.9	20574.1
67.5°	3258.4	3245.0	3531.1	4496.5	7236.5	17624.1	32986.5	34761.0	30885.8	25245.0	20010.9
70°	2529.9	2494.1	2601.4	3097.5	4214.9	11397.8	28230.8	31931.7	29893.5	22902.9	15979.3
72.5°	1828.1	1868.3	2038.2	2543.3	3307.6	6132.5	21517.2	25821.6	24967.9	17262.1	10155.2
75°	1273.9	1309.6	1582.3	2074.0	3034.9	3718.8	14548.9	18728.1	17391.7	9529.4	4326.7
77.5°	666.0	710.7	1010.2	1658.3	2757.8	2878.5	8693.6	11876.1	9216.6	3392.5	1193.4
80°	308.4	330.8	505.1	1175.5	2306.4	2529.9	5068.7	6606.2	3687.5	759.9	411.2
82.5°	134.1	147.5	232.4	674.9	1635.9	2212.5	3137.7	3464.0	1336.4	245.8	254.8
85°	26.8	31.3	89.4	357.6	791.1	1340.9	2203.6	2056.1	670.5	120.7	201.1
87.5°	0.0	0.0	22.3	102.8	214.5	397.8	934.2	934.2	205.6	62.6	76.0
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°	9538.4	9538.4	9538.4	9538.4	9538.4	9538.4	9538.4	9538.4	9538.4	9538.4	9538.4
2.5°	9542.9	9381.9	9028.8	8702.5	8470.1	8206.4	7857.8	7701.3	7643.2	7562.8	7442.1
5°	9292.6	9095.9	8492.5	7884.6	7218.6	6713.5	6177.2	5864.3	5627.4	5479.9	5430.7
7.5°	8939.4	8537.2	7723.7	6749.3	5886.6	5135.7	4322.2	3772.4	3419.3	3276.3	3142.2
10°	8657.9	8134.9	6896.8	5685.5	4536.8	3437.2	2520.9	2038.2	1671.7	1533.1	1515.2
12.5°	8291.3	7665.6	6123.5	4599.3	3155.6	2047.1	1394.6	1211.3	1108.5	1090.6	1077.2
15°	7987.4	7240.9	5390.5	3562.4	2042.7	1278.3	1086.1	1041.4	1014.6	1005.7	1010.2
17.5°	7781.8	6785.0	4639.6	2592.4	1345.4	1045.9	1001.2	974.4	961.0	956.5	943.1
20°	7375.0	6400.6	3897.6	1814.7	1050.4	965.5	929.7	907.4	893.9	889.5	885.0
22.5°	7142.6	5913.4	3155.6	1264.9	934.2	876.1	849.2	831.4	809.0	795.6	791.1
25°	6910.2	5555.9	2494.1	983.3	849.2	809.0	768.8	746.4	710.7	692.8	688.3
27.5°	6637.5	5202.8	1922.0	853.7	764.3	724.1	683.9	648.1	603.4	585.5	576.6
30°	6481.1	4858.6	1448.2	764.3	701.7	648.1	598.9	554.2	505.1	473.8	464.9
32.5°	6400.6	4545.7	1086.1	697.3	634.7	576.6	514.0	460.4	415.7	388.9	384.4
35°	6302.3	4241.8	853.7	634.7	572.1	509.5	447.0	393.3	348.6	326.3	317.4
37.5°	6405.1	4063.0	710.7	585.5	523.0	451.4	384.4	330.8	295.0	272.7	268.2
40°	6686.7	3915.5	616.8	540.8	473.8	397.8	335.2	281.6	250.3	232.4	223.5
42.5°	7120.3	3915.5	558.7	496.1	429.1	348.6	286.1	245.8	214.5	196.7	192.2
45°	7906.9	4036.2	509.5	451.4	375.5	299.5	245.8	205.6	174.3	156.4	152.0
47.5°	9011.0	4313.3	469.3	411.2	335.2	263.7	214.5	174.3	143.0	125.2	120.7
50°	10494.9	4943.5	429.1	362.0	299.5	228.0	178.8	138.6	111.7	93.9	89.4
52.5°	12345.4	5837.5	388.9	335.2	254.8	192.2	143.0	111.7	84.9	71.5	67.0
55°	14303.1	6932.5	339.7	299.5	219.0	160.9	116.2	84.9	62.6	53.6	49.2
57.5°	16274.3	7777.3	299.5	259.2	178.8	129.6	93.9	67.0	44.7	35.8	31.3
60°	17320.2	7857.8	259.2	214.5	143.0	102.8	71.5	49.2	31.3	22.3	17.9
62.5°	17481.1	7142.6	223.5	174.3	116.2	80.5	49.2	35.8	17.9	8.9	8.9
65°	16654.2	5953.7	192.2	138.6	89.4	58.1	35.8	22.3	8.9	4.5	0.0
67°	15313.3	4988.2	165.4	116.2	71.5	44.7	26.8	13.4	4.5	0.0	0.0
67.5°	14794.8	4720.0	156.4	107.3	67.0	40.2	22.3	13.4	4.5	0.0	0.0
70°	11482.7	3370.2	116.2	76.0	49.2	31.3	17.9	8.9	0.0	0.0	0.0
72.5°	7035.3	1971.1	89.4	53.6	35.8	22.3	13.4	4.5	0.0	0.0	0.0
75°	2950.0	679.4	76.0	40.2	26.8	13.4	8.9	4.5	0.0	0.0	0.0
77.5°	768.8	254.8	53.6	26.8	17.9	13.4	8.9	4.5	0.0	0.0	0.0
80°	312.9	116.2	35.8	17.9	17.9	13.4	8.9	4.5	0.0	0.0	0.0
82.5°	205.6	53.6	22.3	17.9	13.4	8.9	4.5	0.0	0.0	0.0	0.0
85°	156.4	31.3	13.4	13.4	8.9	4.5	0.0	0.0	0.0	0.0	0.0
87.5°	67.0	17.9	13.4	8.9	8.9	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)