

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: P484189

Luminaire Tested: **IFLD-L-SA7C-830-U-SL2-HSS**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P484189  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA7C-830-U-SL2-HSS  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL2 distribution lens with House Side Shield  
Light Source: (112) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

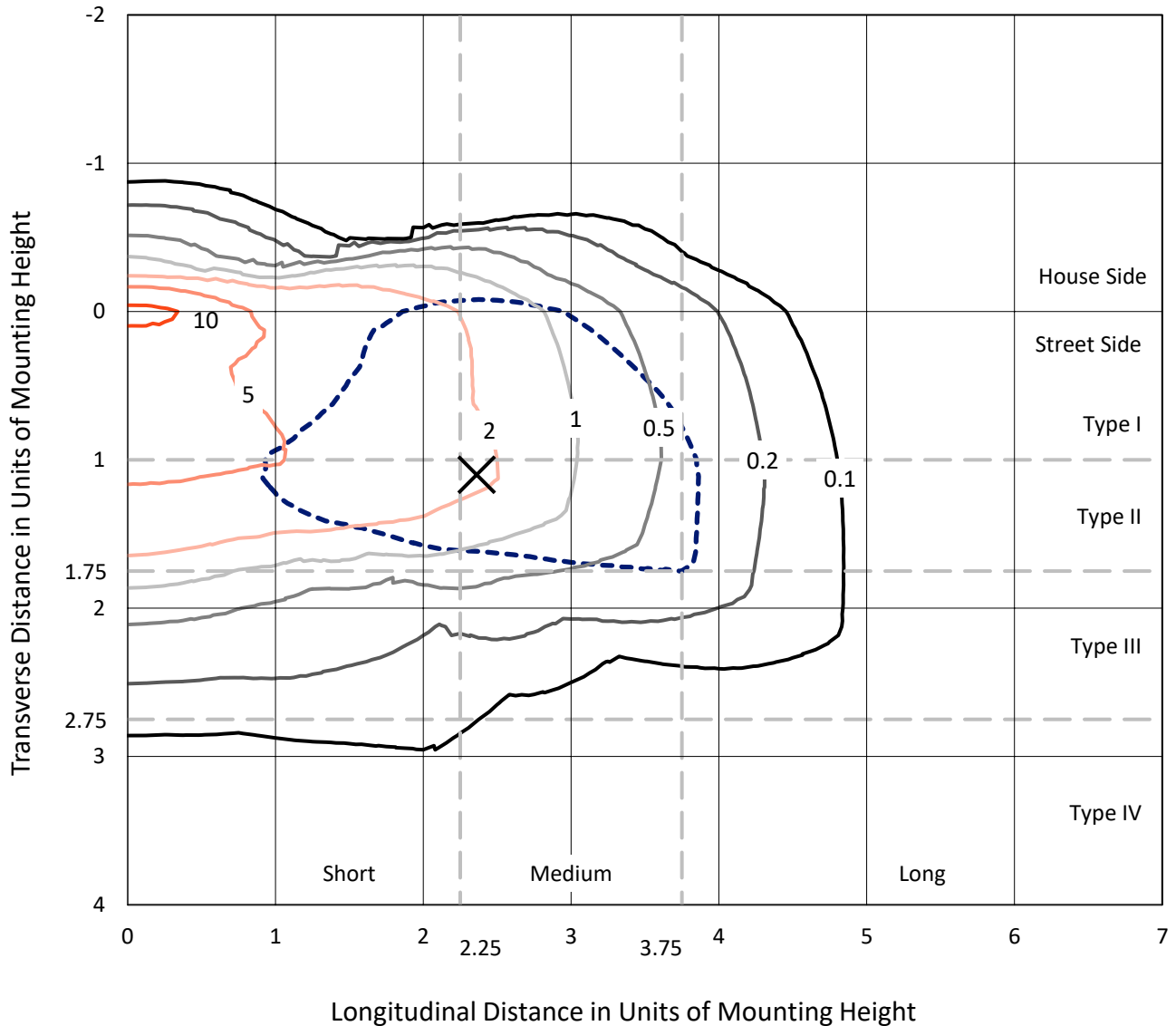
Lumens per Lamp: N/A  
Luminaire Lumens: 28992.3 lumens  
Efficiency: N/A  
Efficacy: 78.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B3 - U0 - G4

Input Watts (W): 369  
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

REPORT NUMBER: P484189  
 CATALOG NUMBER: IFLD-L-SA7C-830-U-SL2-HSS

### Iso-Footcandle Lines of Horizontal Illumination

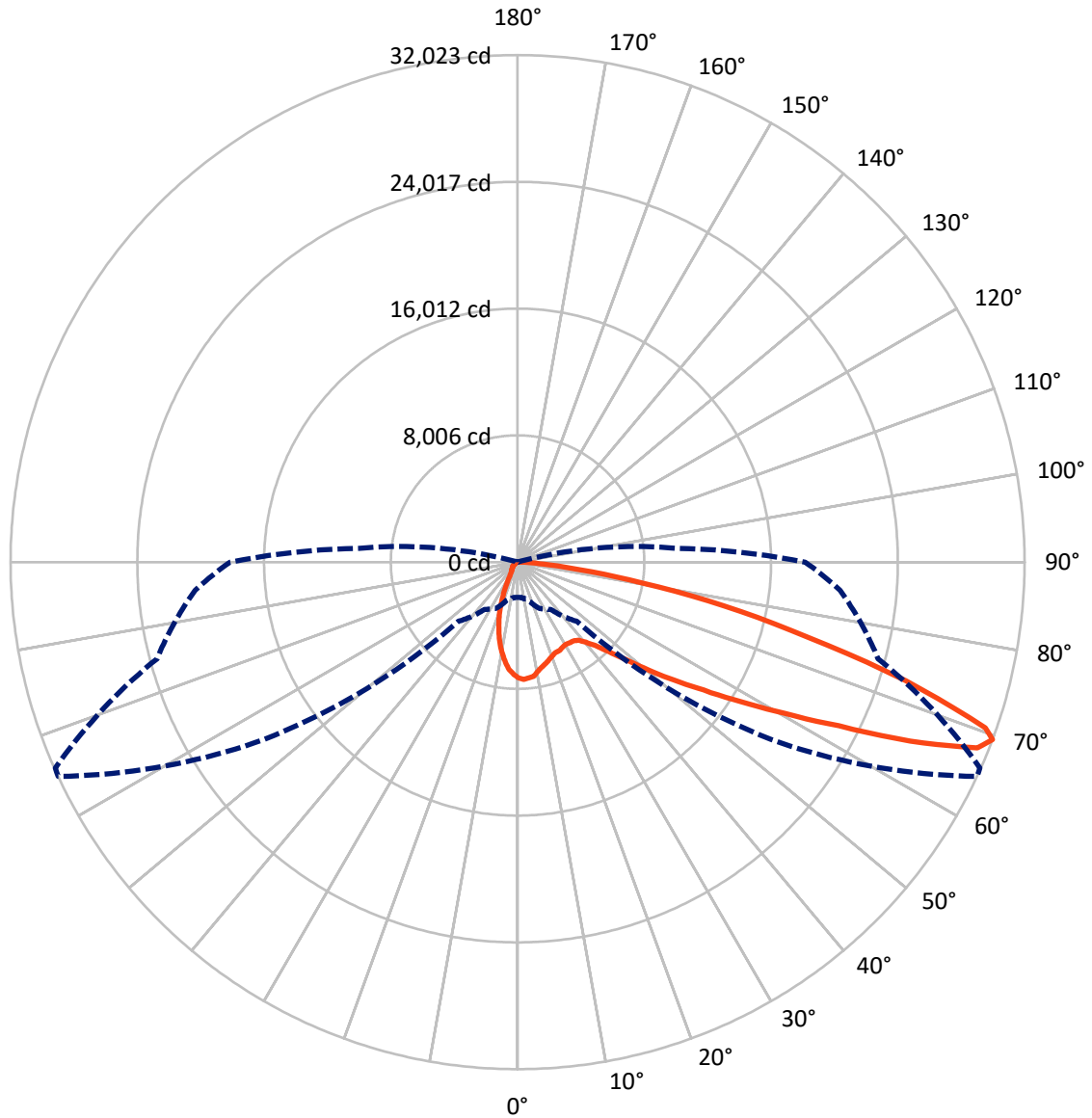
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.7 fc  
 Type II - Medium - N/A

REPORT NUMBER: P484189  
CATALOG NUMBER: IFLD-L-SA7C-830-U-SL2-HSS

### Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral      - - - Horizontal Cone Through 69-Deg Vertical

REPORT NUMBER: P484189  
 CATALOG NUMBER: IFLD-L-SA7C-830-U-SL2-HSS

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3516.9	0.0	3516.9
	% Fixture	12.1	0.0	12.1
<b>Street Side</b>	Lumens	25475.3	0.0	25475.3
	% Fixture	87.9	0.0	87.9
<b>Total</b>	Lumens	28992.3	0.0	28992.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	598.2	2.1
10°-20°	1308.8	4.5
20°-30°	1822.1	6.3
30°-40°	2582.1	8.9
40°-50°	4069.3	14.0
50°-60°	6603.1	22.8
60°-70°	7374.3	25.4
70°-80°	4152.6	14.3
80°-90°	481.8	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°	28992.3	100.0
0°-180°	28992.3	100.0

**Coefficient of Utilization**

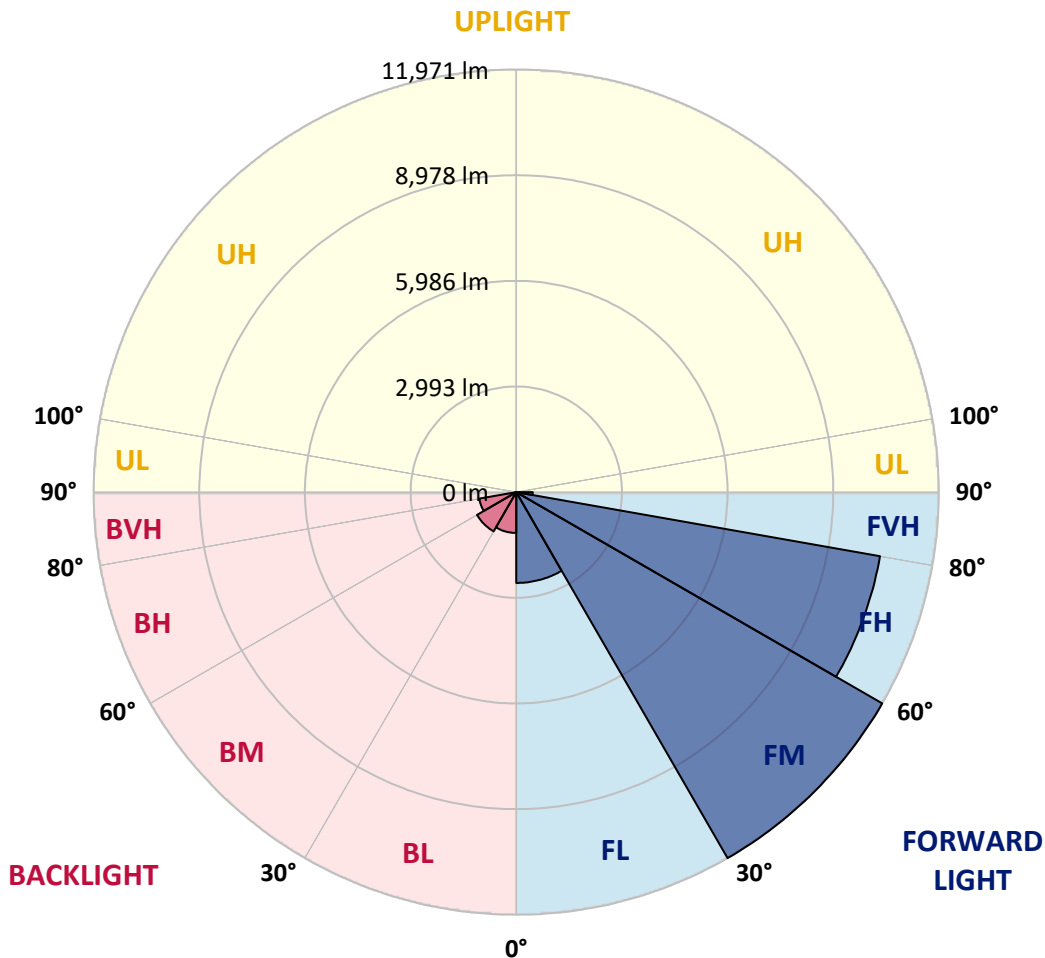


REPORT NUMBER: P484189  
 CATALOG NUMBER: IFLD-L-SA7C-830-U-SL2-HSS

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2572.8	8.9			
FM (30°-60°)	11971.2	41.3			
FH (60°-80°)	10462.8	36.1			G4/12000
FVH (80°-90°)	468.6	1.6			G3/500
BL (0°-30°)	1156.3	4.0	B3/2500		
BM (30°-60°)	1283.3	4.4	B2/2500		
BH (60°-80°)	1064.1	3.7	B3/2500		G3/2500
BVH (80°-90°)	13.3	0.0			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G4**  
 Type II Medium





REPORT NUMBER: P484189

CATALOG NUMBER: IFLD-L-SA7C-830-U-SL2-HSS

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	7309.6	7309.6	7309.6	7309.6	7309.6	7309.6	7309.6	7309.6	7309.6	7309.6	7309.6
2.5°	7039.8	7094.5	7110.2	7164.9	7192.3	7309.6	7376.1	7415.2	7395.7	7438.7	7442.6
5°	6539.2	6507.9	6590.0	6648.7	6773.8	6977.2	7184.5	7344.8	7419.1	7489.5	7477.8
7.5°	6003.4	5987.7	6069.8	6202.8	6316.2	6562.6	6895.1	7290.1	7274.4	7446.5	7497.4
10°	5635.7	5651.4	5678.7	5811.7	5979.9	6230.2	6644.8	7012.4	7094.5	7458.2	7559.9
12.5°	5299.4	5326.8	5377.6	5514.5	5710.0	5968.2	6371.0	6801.2	6926.3	7391.8	7595.1
15°	5189.9	5127.3	5229.0	5330.7	5534.0	5764.8	6105.0	6640.8	6695.6	7313.5	7653.8
17.5°	5099.9	5060.8	5107.7	5189.9	5405.0	5592.7	5913.4	6468.8	6570.4	7282.2	7646.0
20°	5127.3	5092.1	5111.7	5174.2	5272.0	5448.0	5745.2	6304.5	6414.0	7137.5	7634.2
22.5°	5205.5	5232.9	5197.7	5213.3	5244.6	5334.6	5655.3	6187.2	6281.0	7110.2	7700.7
25°	5557.5	5510.6	5463.6	5444.1	5260.3	5299.4	5627.9	6179.3	6245.8	7012.4	7646.0
27.5°	5925.1	5886.0	5866.5	5753.1	5502.8	5385.4	5631.8	6069.8	6159.8	6973.3	7579.5
30°	6371.0	6421.8	6343.6	6206.7	5858.6	5569.2	5674.8	6015.1	6140.2	6824.7	7536.5
32.5°	6840.3	6867.7	6906.8	6805.1	6355.3	5846.9	5803.9	6065.9	6073.8	6824.7	7438.7
35°	7372.2	7333.1	7434.8	7442.6	7047.6	6339.7	6050.3	6101.1	6183.3	6793.4	7403.5
37.5°	7829.8	7896.3	8013.6	8201.3	7794.6	7035.9	6433.6	6265.4	6300.6	6938.1	7430.9
40°	8330.4	8396.9	8662.8	8850.6	8619.8	7818.1	7016.3	6648.7	6676.0	7153.2	7571.7
42.5°	8881.8	9010.9	9327.7	9656.2	9593.6	8811.4	7767.2	7211.8	7200.1	7689.0	7861.1
45°	9628.8	9800.9	10145.1	10524.4	10579.2	9949.5	8768.4	8052.7	8091.8	8389.1	8459.5
47.5°	10669.2	10661.3	10997.7	11420.1	11736.9	11130.7	9965.2	9183.0	9179.1	9495.9	9347.2
50°	11674.3	11678.2	11768.1	12257.0	13078.3	12769.4	11447.4	10684.8	10641.8	10798.2	10559.6
52.5°	12139.7	12084.9	12018.4	12609.0	14110.8	14834.4	13324.7	12386.1	12350.9	12257.0	12194.4
55°	11650.8	11670.4	11666.5	12280.5	14654.4	17012.8	15733.9	14259.4	14200.8	13907.4	13993.5
57.5°	10082.5	10019.9	10156.8	11115.0	14032.6	18498.9	19179.5	16621.7	16469.1	15495.3	15299.8
60°	7505.2	7524.7	7638.1	8768.4	12487.8	18811.8	22476.4	19394.6	18737.5	16613.8	16344.0
62.5°	5240.7	5201.6	5244.6	5878.2	8928.8	17560.3	24705.7	22765.8	22132.2	17884.9	17728.5
65°	3750.6	3699.8	3871.9	4259.1	5362.0	13426.4	25022.5	27255.6	26688.5	19914.7	19539.3
67.5°	2698.6	2690.8	2890.2	3594.2	3809.3	7732.0	22675.9	31323.0	30978.9	22323.9	20642.2
69°	2233.2	2237.1	2428.7	3218.7	3637.2	5279.8	19511.9	32023.1	31960.5	23567.6	20434.9
70°	1947.7	1963.3	2186.2	2995.8	3566.8	4341.2	16821.1	31334.8	31272.2	23810.1	19750.5
72.5°	1200.7	1212.4	1505.7	2401.3	3390.8	3543.3	10059.0	25636.5	25851.6	22699.3	17016.7
75°	574.9	578.8	790.0	1736.5	3269.6	3359.5	5389.3	18917.4	19371.1	18326.9	13297.3
77.5°	305.1	305.1	379.4	923.0	2647.7	3160.1	3199.2	13344.3	13719.7	11588.2	7559.9
80°	152.5	156.4	230.7	481.1	1642.6	3097.5	2499.1	7958.8	8162.2	4728.4	2354.4
82.5°	58.7	62.6	109.5	289.4	852.6	2616.4	2194.1	3914.9	3864.0	1106.8	574.9
85°	7.8	7.8	39.1	172.1	363.7	1153.7	1810.8	1634.8	1580.0	242.5	277.7
87.5°	0.0	0.0	7.8	50.8	109.5	336.3	700.1	449.8	500.6	66.5	136.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P484189

CATALOG NUMBER: IFLD-L-SA7C-830-U-SL2-HSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	7309.6	7309.6	7309.6	7309.6	7309.6	7309.6	7309.6	7309.6	7309.6	7309.6	7309.6
2.5°	7423.0	7340.9	7215.8	7094.5	6965.5	6809.0	6636.9	6574.4	6464.9	6457.0	6519.6
5°	7415.2	7282.2	7063.2	6805.1	6437.5	6159.8	5858.6	5639.6	5471.5	5362.0	5389.3
7.5°	7454.3	7294.0	6914.6	6359.3	5886.0	5334.6	4869.2	4548.5	4255.1	4110.4	4094.8
10°	7391.8	7176.7	6621.3	5843.0	5146.9	4376.4	3695.9	3265.7	2827.6	2667.3	2675.1
12.5°	7427.0	7125.8	6304.5	5311.1	4352.9	3351.7	2538.2	1951.6	1540.9	1408.0	1392.3
15°	7450.4	7016.3	5999.4	4673.6	3473.0	2284.0	1470.5	1106.8	977.7	954.3	950.4
17.5°	7360.5	6883.3	5569.2	4044.0	2573.4	1388.4	977.7	903.4	880.0	864.3	856.5
20°	7356.6	6805.1	5197.7	3398.6	1716.9	946.5	844.8	817.4	782.2	770.5	770.5
22.5°	7290.1	6640.8	4751.8	2690.8	1095.1	813.5	758.7	715.7	676.6	661.0	657.0
25°	7270.5	6449.2	4333.4	2022.0	833.0	727.4	672.7	610.1	563.2	539.7	528.0
27.5°	7215.8	6284.9	3911.0	1423.6	727.4	649.2	578.8	512.3	457.6	422.4	418.5
30°	7020.2	6112.9	3441.7	985.6	661.0	574.9	496.7	418.5	363.7	340.3	332.4
32.5°	6938.1	5952.5	2929.3	758.7	602.3	508.4	418.5	348.1	305.1	281.6	277.7
35°	6840.3	5717.9	2432.6	661.0	547.5	441.9	352.0	293.3	258.1	238.6	238.6
37.5°	6852.0	5530.1	1967.2	598.4	488.9	379.4	301.1	250.3	219.0	199.5	199.5
40°	6816.8	5381.5	1529.2	543.6	434.1	324.6	254.2	211.2	183.8	164.3	160.4
42.5°	6977.2	5342.4	1153.7	496.7	379.4	277.7	219.0	179.9	152.5	129.1	129.1
45°	7247.0	5405.0	899.5	453.7	324.6	238.6	187.7	148.6	121.2	105.6	101.7
47.5°	7966.7	5651.4	704.0	418.5	277.7	207.3	156.4	121.2	97.8	82.1	78.2
50°	9010.9	6202.8	598.4	367.6	234.7	176.0	129.1	93.9	78.2	62.6	58.7
52.5°	10497.1	7129.7	543.6	324.6	195.5	144.7	101.7	74.3	58.7	46.9	43.0
55°	12116.2	8287.4	492.8	273.8	164.3	117.3	82.1	58.7	43.0	31.3	27.4
57.5°	13379.5	9288.6	449.8	226.8	133.0	93.9	62.6	43.0	31.3	19.6	15.6
60°	14760.0	9992.6	395.0	179.9	109.5	70.4	46.9	31.3	23.5	11.7	11.7
62.5°	16183.6	10817.8	324.6	140.8	86.0	54.8	35.2	23.5	15.6	3.9	3.9
65°	18162.6	11463.1	250.3	109.5	66.5	39.1	27.4	19.6	7.8	0.0	0.0
67.5°	18721.9	11146.3	183.8	86.0	46.9	27.4	19.6	11.7	3.9	0.0	0.0
69°	18162.6	10039.5	160.4	74.3	39.1	23.5	15.6	7.8	3.9	0.0	0.0
70°	17141.8	9179.1	140.8	62.6	35.2	23.5	11.7	7.8	3.9	0.0	0.0
72.5°	14337.7	7039.8	109.5	46.9	27.4	19.6	11.7	7.8	0.0	0.0	0.0
75°	10516.6	4349.0	82.1	35.2	23.5	15.6	11.7	7.8	0.0	0.0	0.0
77.5°	5635.7	1587.9	58.7	23.5	15.6	11.7	11.7	7.8	0.0	0.0	0.0
80°	1544.8	469.3	43.0	15.6	11.7	7.8	7.8	3.9	0.0	0.0	0.0
82.5°	422.4	121.2	27.4	15.6	11.7	7.8	3.9	0.0	0.0	0.0	0.0
85°	226.8	46.9	15.6	11.7	7.8	3.9	0.0	0.0	0.0	0.0	0.0
87.5°	117.3	15.6	11.7	7.8	7.8	3.9	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)