

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: P484569

Luminaire Tested: **IFLD-S-SA6C-830-U-SL3-HSS**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P484569  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA6C-830-U-SL3-HSS  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL3 distribution lens with House Side Shield  
Light Source: (96) 3000K CCT, 80 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

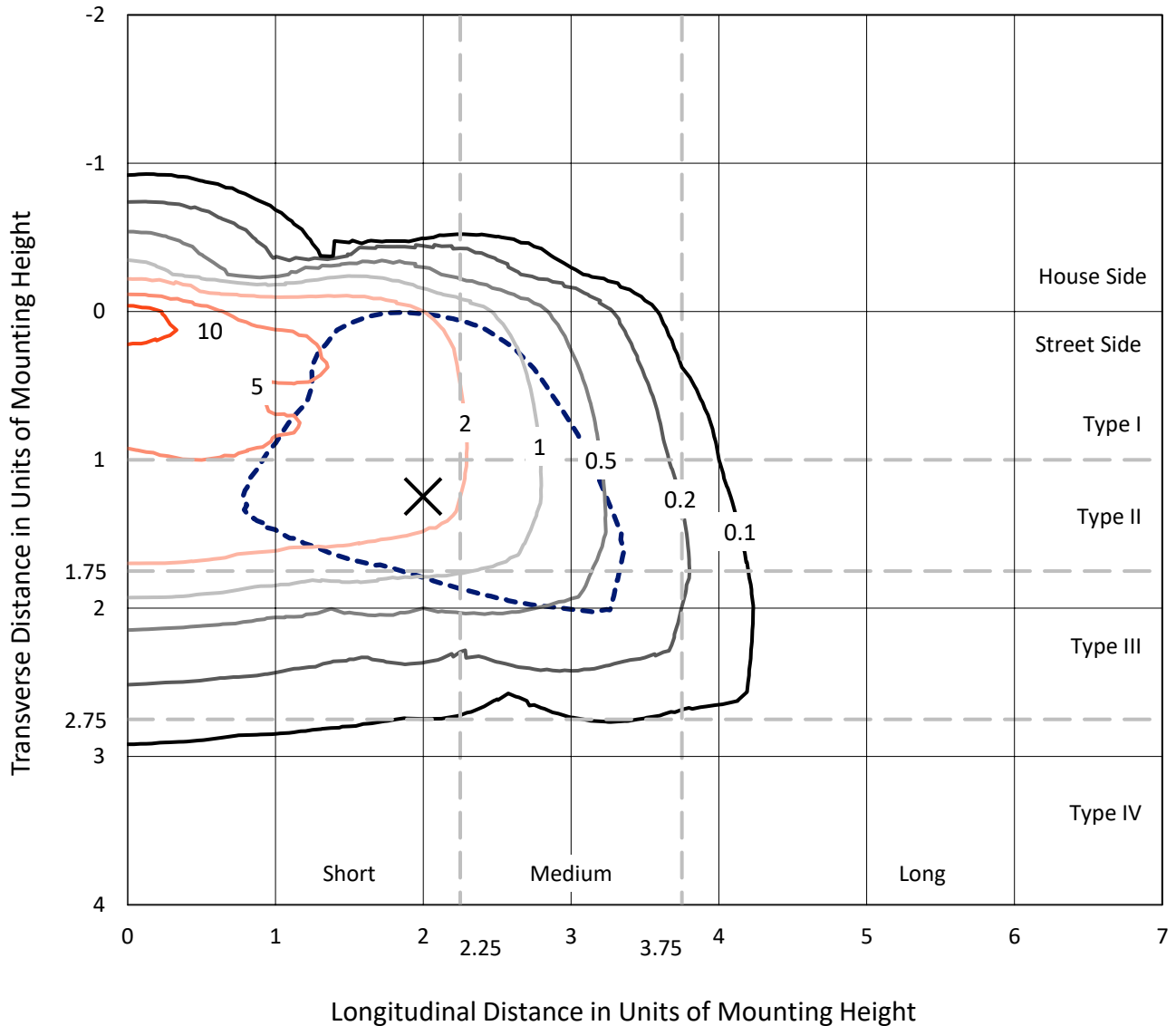
Lumens per Lamp: N/A  
Luminaire Lumens: 27612 lumens  
Efficiency: N/A  
Efficacy: 85.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G4

Input Watts (W): 321.5  
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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 CATALOG NUMBER: IFLD-S-SA6C-830-U-SL3-HSS

### Iso-Footcandle Lines of Horizontal Illumination

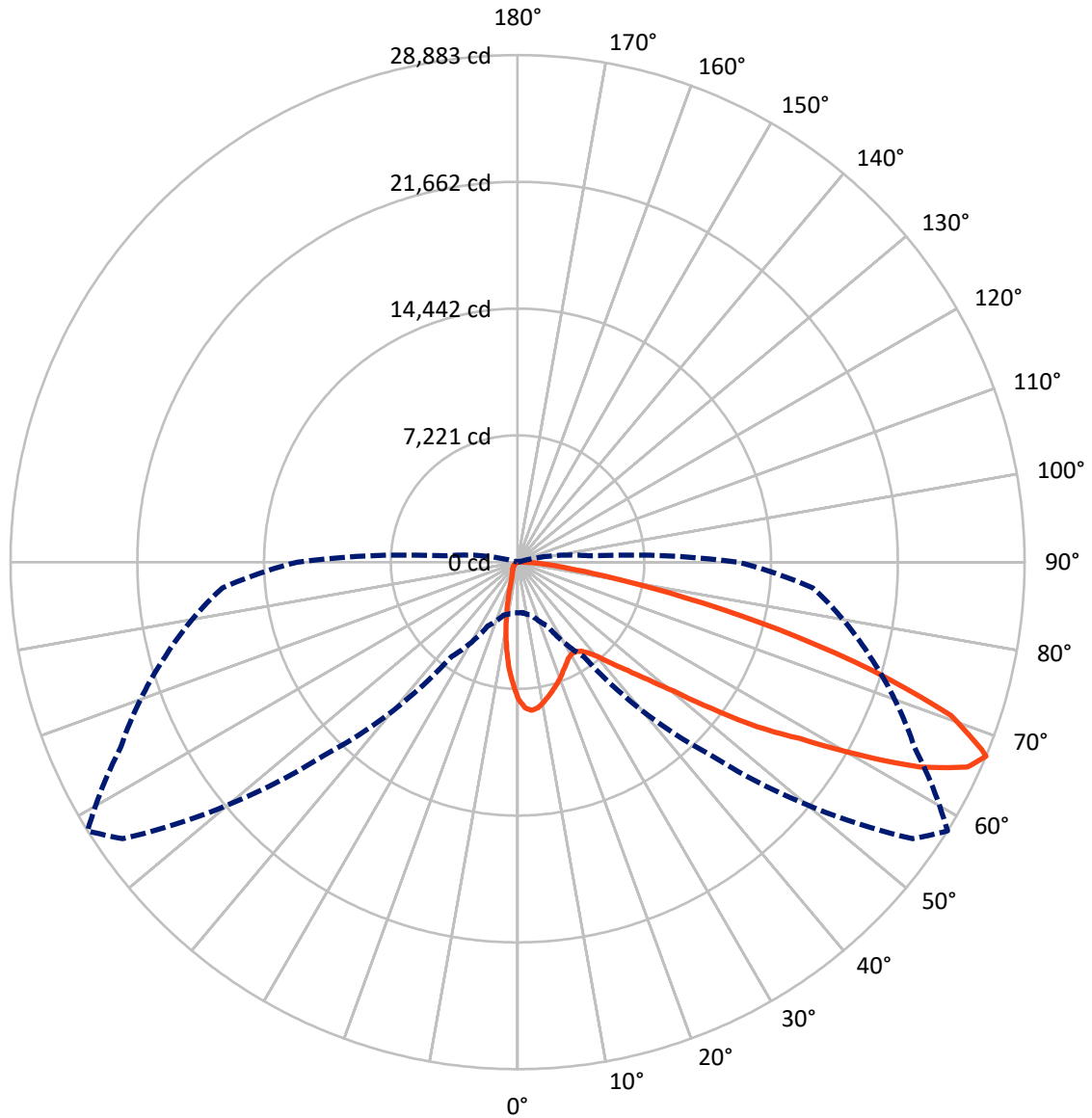
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.5 fc  
 Type III - Short - N/A

REPORT NUMBER: P484569  
CATALOG NUMBER: IFLD-S-SA6C-830-U-SL3-HSS

### 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	2282.3	0.0	2282.3
	% Fixture	8.3	0.0	8.3
<b>Street Side</b>	Lumens	25329.7	0.0	25329.7
	% Fixture	91.7	0.0	91.7
<b>Total</b>	Lumens	27612.0	0.0	27612.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	620.7	2.2
10°-20°	1287.5	4.7
20°-30°	1708.2	6.2
30°-40°	2367.0	8.6
40°-50°	3862.3	14.0
50°-60°	6788.6	24.6
60°-70°	7518.9	27.2
70°-80°	3115.8	11.3
80°-90°	343.0	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°	27612.0	100.0
0°-180°	27612.0	100.0



REPORT NUMBER: P484569

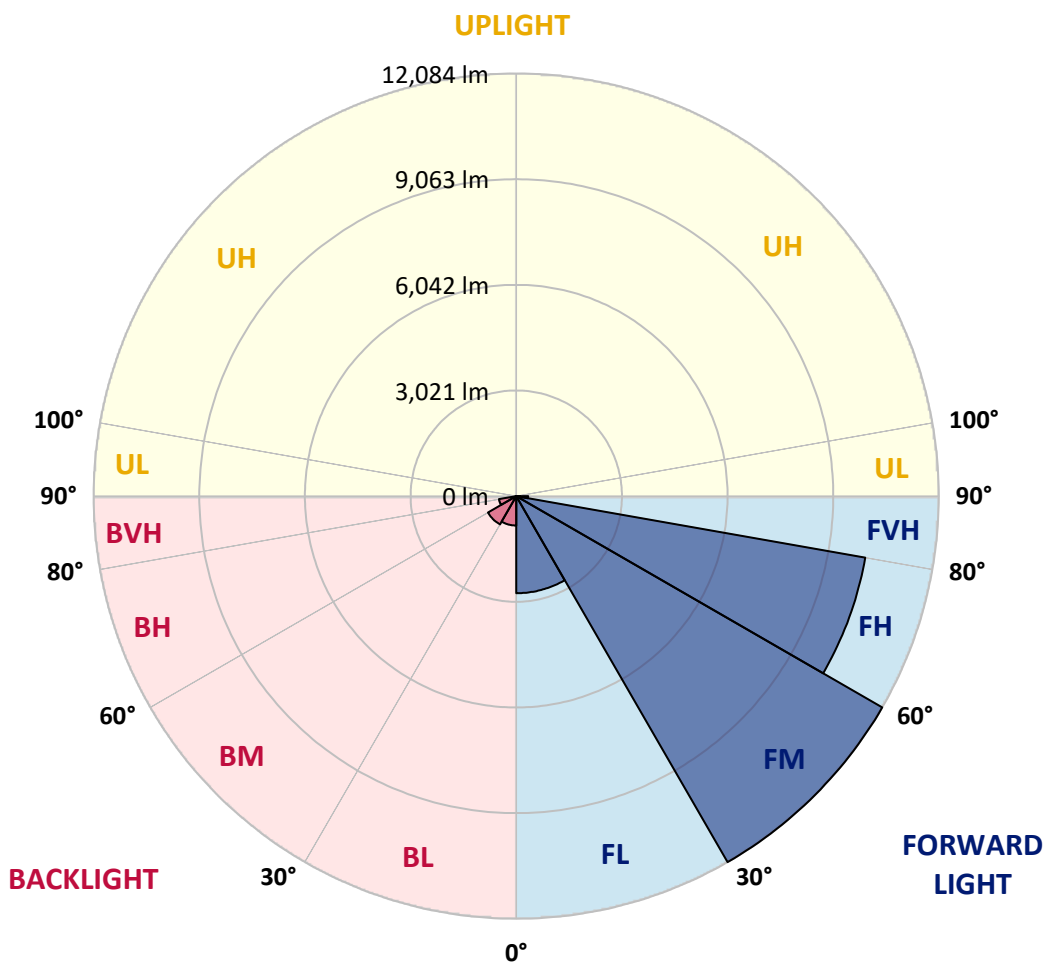
CATALOG NUMBER: IFLD-S-SA6C-830-U-SL3-HSS

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2775.8	10.1			
FM (30°-60°)	12083.6	43.8			
FH (60°-80°)	10133.0	36.7			G4/12000
FVH (80°-90°)	337.4	1.2			G3/500
BL (0°-30°)	840.6	3.0	B2/1000		
BM (30°-60°)	934.3	3.4	B1/1000		
BH (60°-80°)	501.8	1.8	B2/1000		G2/1000
BVH (80°-90°)	5.6	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G4**

Type III Short





REPORT NUMBER: P484569

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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	7822.9	7822.9	7822.9	7822.9	7822.9	7822.9	7822.9	7822.9	7822.9	7822.9	7822.9
2.5°	8512.0	8541.4	8567.0	8519.4	8559.7	8501.0	8350.7	8317.7	8292.1	8068.5	7940.2
5°	8508.4	8475.4	8501.0	8523.0	8468.0	8512.0	8475.4	8479.0	8380.1	8178.4	7819.2
7.5°	7940.2	7925.5	7940.2	8046.5	8167.4	8262.8	8317.7	8372.7	8306.8	8006.2	7657.9
10°	7174.0	7247.3	7287.7	7478.3	7665.2	7841.2	8013.5	8116.1	8097.8	7976.8	7481.9
12.5°	6638.8	6616.8	6763.4	6888.1	7075.0	7430.6	7731.2	7826.5	7936.5	7767.9	7251.0
15°	6143.9	6085.3	6173.2	6389.5	6708.5	6990.7	7412.3	7555.3	7694.6	7738.5	7126.4
17.5°	5671.0	5700.4	5792.0	5986.3	6286.9	6682.8	7078.7	7284.0	7617.6	7558.9	6939.4
20°	5443.7	5506.1	5539.1	5638.0	5847.0	6242.9	6833.1	6998.1	7353.6	7555.3	6756.1
22.5°	5454.7	5454.7	5377.8	5436.4	5627.0	5935.0	6499.5	6682.8	7247.3	7364.6	6591.1
25°	5572.0	5498.7	5502.4	5432.7	5513.4	5682.0	6198.9	6422.5	7031.0	7383.0	6503.2
27.5°	5660.0	5645.4	5623.4	5605.0	5502.4	5528.1	6000.9	6184.2	6946.7	7361.0	6367.5
30°	5979.0	5913.0	5891.0	5850.7	5715.0	5590.4	5843.3	6074.3	6880.7	7412.3	6290.5
32.5°	6246.6	6257.6	6275.9	6158.6	6041.3	5733.3	5887.3	6070.6	6833.1	7529.6	6367.5
35°	6583.8	6631.5	6638.8	6602.1	6477.5	6173.2	6070.6	6228.2	6913.7	7738.5	6374.9
37.5°	7097.0	7045.7	7185.0	7199.7	7111.7	6708.5	6495.8	6558.2	7152.0	8072.1	6653.5
40°	7430.6	7492.9	7753.2	7914.5	7764.2	7397.6	7111.7	7100.7	7496.6	8596.4	6998.1
42.5°	7800.9	7940.2	8226.1	8574.4	8556.0	8215.1	7925.5	7877.9	8108.8	9355.2	7544.3
45°	8306.8	8431.4	8831.0	9355.2	9641.1	9351.5	8915.3	8820.0	8853.0	10388.9	8475.4
47.5°	9146.2	9113.2	9688.8	10205.6	10674.9	10451.3	10264.3	9985.7	9960.0	11606.0	9762.1
50°	10095.7	10088.3	10601.6	11188.1	11730.6	12166.9	11855.3	11551.0	11558.3	13259.3	11276.1
52.5°	10997.5	11140.4	11694.0	12276.8	13208.0	13677.2	13977.8	13856.8	13273.9	14736.6	12896.4
55°	11474.0	11598.7	12148.5	13153.0	14623.0	15829.0	16642.8	16540.2	15414.8	16400.9	14494.7
57.5°	11023.1	11107.4	11851.6	13167.6	15612.7	18303.4	19084.3	18956.0	17628.9	17672.9	16426.5
60°	9135.2	9267.2	10374.3	11917.6	15227.8	20209.7	22445.8	22251.5	19645.1	19282.2	17669.3
62.5°	6327.2	6415.2	7324.3	9245.2	13402.2	20873.2	25620.4	25726.7	21771.3	20535.9	18039.5
65°	4098.4	4091.1	4611.6	5913.0	9498.1	18864.3	27497.3	28157.2	23824.2	20726.6	17925.9
67°	2896.0	2885.0	3130.6	4010.4	6576.5	15543.1	27464.3	28883.0	24938.6	20781.5	16873.8
67.5°	2672.4	2661.4	2896.0	3687.8	5935.0	14454.3	27053.8	28509.1	25330.8	20704.6	16411.9
70°	2074.9	2045.5	2133.5	2540.4	3456.9	9347.8	23153.3	26188.6	24517.0	18783.7	13105.3
72.5°	1499.3	1532.3	1671.6	2085.9	2712.7	5029.5	17647.3	21177.4	20477.3	14157.4	8328.7
75°	1044.8	1074.1	1297.7	1700.9	2489.1	3050.0	11932.2	15359.8	14263.7	7815.5	3548.5
77.5°	546.2	582.9	828.5	1360.0	2261.8	2360.8	7130.0	9740.1	7558.9	2782.4	978.8
80°	252.9	271.3	414.2	964.1	1891.6	2074.9	4157.0	5418.1	3024.3	623.2	337.3
82.5°	110.0	121.0	190.6	553.5	1341.7	1814.6	2573.4	2841.0	1096.1	201.6	209.0
85°	22.0	25.7	73.3	293.3	648.9	1099.7	1807.2	1686.3	549.9	99.0	165.0
87.5°	0.0	0.0	18.3	84.3	176.0	326.3	766.2	766.2	168.6	51.3	62.3
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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 CATALOG NUMBER: IFLD-S-SA6C-830-U-SL3-HSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	7822.9	7822.9	7822.9	7822.9	7822.9	7822.9	7822.9	7822.9	7822.9	7822.9	7822.9
2.5°	7826.5	7694.6	7405.0	7137.4	6946.7	6730.4	6444.5	6316.2	6268.6	6202.6	6103.6
5°	7621.2	7459.9	6965.1	6466.5	5920.3	5506.1	5066.2	4809.6	4615.3	4494.3	4454.0
7.5°	7331.6	7001.7	6334.5	5535.4	4827.9	4212.0	3544.8	3094.0	2804.4	2687.0	2577.1
10°	7100.7	6671.8	5656.4	4662.9	3720.8	2819.0	2067.5	1671.6	1371.0	1257.4	1242.7
12.5°	6800.1	6286.9	5022.2	3772.1	2588.1	1678.9	1143.7	993.4	909.1	894.5	883.5
15°	6550.8	5938.6	4421.0	2921.7	1675.3	1048.4	890.8	854.1	832.1	824.8	828.5
17.5°	6382.2	5564.7	3805.1	2126.2	1103.4	857.8	821.1	799.1	788.2	784.5	773.5
20°	6048.6	5249.5	3196.6	1488.3	861.5	791.8	762.5	744.2	733.2	729.5	725.8
22.5°	5858.0	4849.9	2588.1	1037.4	766.2	718.5	696.5	681.8	663.5	652.5	648.9
25°	5667.4	4556.6	2045.5	806.5	696.5	663.5	630.5	612.2	582.9	568.2	564.5
27.5°	5443.7	4267.0	1576.3	700.2	626.9	593.9	560.9	531.5	494.9	480.2	472.9
30°	5315.4	3984.7	1187.7	626.9	575.5	531.5	491.2	454.6	414.2	388.6	381.2
32.5°	5249.5	3728.1	890.8	571.9	520.5	472.9	421.6	377.6	340.9	318.9	315.3
35°	5168.8	3478.9	700.2	520.5	469.2	417.9	366.6	322.6	285.9	267.6	260.3
37.5°	5253.1	3332.2	582.9	480.2	428.9	370.2	315.3	271.3	241.9	223.6	219.9
40°	5484.1	3211.3	505.9	443.6	388.6	326.3	274.9	230.9	205.3	190.6	183.3
42.5°	5839.7	3211.3	458.2	406.9	351.9	285.9	234.6	201.6	176.0	161.3	157.6
45°	6484.8	3310.2	417.9	370.2	307.9	245.6	201.6	168.6	143.0	128.3	124.6
47.5°	7390.3	3537.5	384.9	337.3	274.9	216.3	176.0	143.0	117.3	102.6	99.0
50°	8607.3	4054.4	351.9	296.9	245.6	187.0	146.6	113.6	91.6	77.0	73.3
52.5°	10125.0	4787.6	318.9	274.9	209.0	157.6	117.3	91.6	69.7	58.7	55.0
55°	11730.6	5685.7	278.6	245.6	179.6	132.0	95.3	69.7	51.3	44.0	40.3
57.5°	13347.3	6378.5	245.6	212.6	146.6	106.3	77.0	55.0	36.7	29.3	25.7
60°	14205.1	6444.5	212.6	176.0	117.3	84.3	58.7	40.3	25.7	18.3	14.7
62.5°	14337.0	5858.0	183.3	143.0	95.3	66.0	40.3	29.3	14.7	7.3	7.3
65°	13658.9	4882.9	157.6	113.6	73.3	47.7	29.3	18.3	7.3	3.7	0.0
67°	12559.1	4091.1	135.6	95.3	58.7	36.7	22.0	11.0	3.7	0.0	0.0
67.5°	12133.9	3871.1	128.3	88.0	55.0	33.0	18.3	11.0	3.7	0.0	0.0
70°	9417.5	2764.0	95.3	62.3	40.3	25.7	14.7	7.3	0.0	0.0	0.0
72.5°	5770.0	1616.6	73.3	44.0	29.3	18.3	11.0	3.7	0.0	0.0	0.0
75°	2419.4	557.2	62.3	33.0	22.0	11.0	7.3	3.7	0.0	0.0	0.0
77.5°	630.5	209.0	44.0	22.0	14.7	11.0	7.3	3.7	0.0	0.0	0.0
80°	256.6	95.3	29.3	14.7	14.7	11.0	7.3	3.7	0.0	0.0	0.0
82.5°	168.6	44.0	18.3	14.7	11.0	7.3	3.7	0.0	0.0	0.0	0.0
85°	128.3	25.7	11.0	11.0	7.3	3.7	0.0	0.0	0.0	0.0	0.0
87.5°	55.0	14.7	11.0	7.3	7.3	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)