

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: P483959

Luminaire Tested: **IFLD-L-SA8B-730-U-SL2-HSS**

Issue Date: 02/26/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P483959  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA8B-730-U-SL2-HSS  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL2 distribution lens with House Side Shield  
Light Source: (128) 3000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

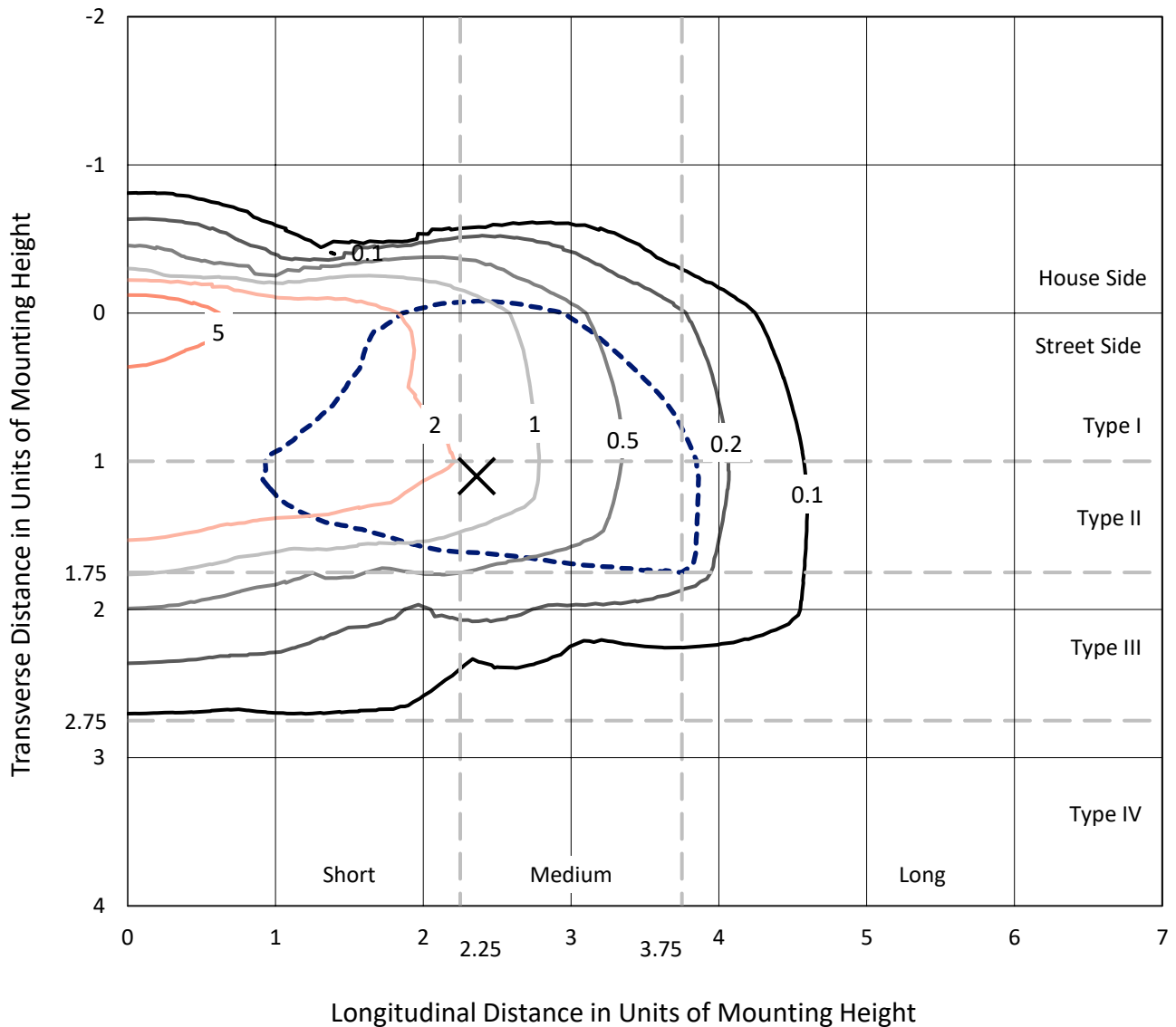
Lumens per Lamp: N/A  
Luminaire Lumens: 30502.5 lumens  
Efficiency: N/A  
Efficacy: 95.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B3 - U0 - G4

Input Watts (W): 320  
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

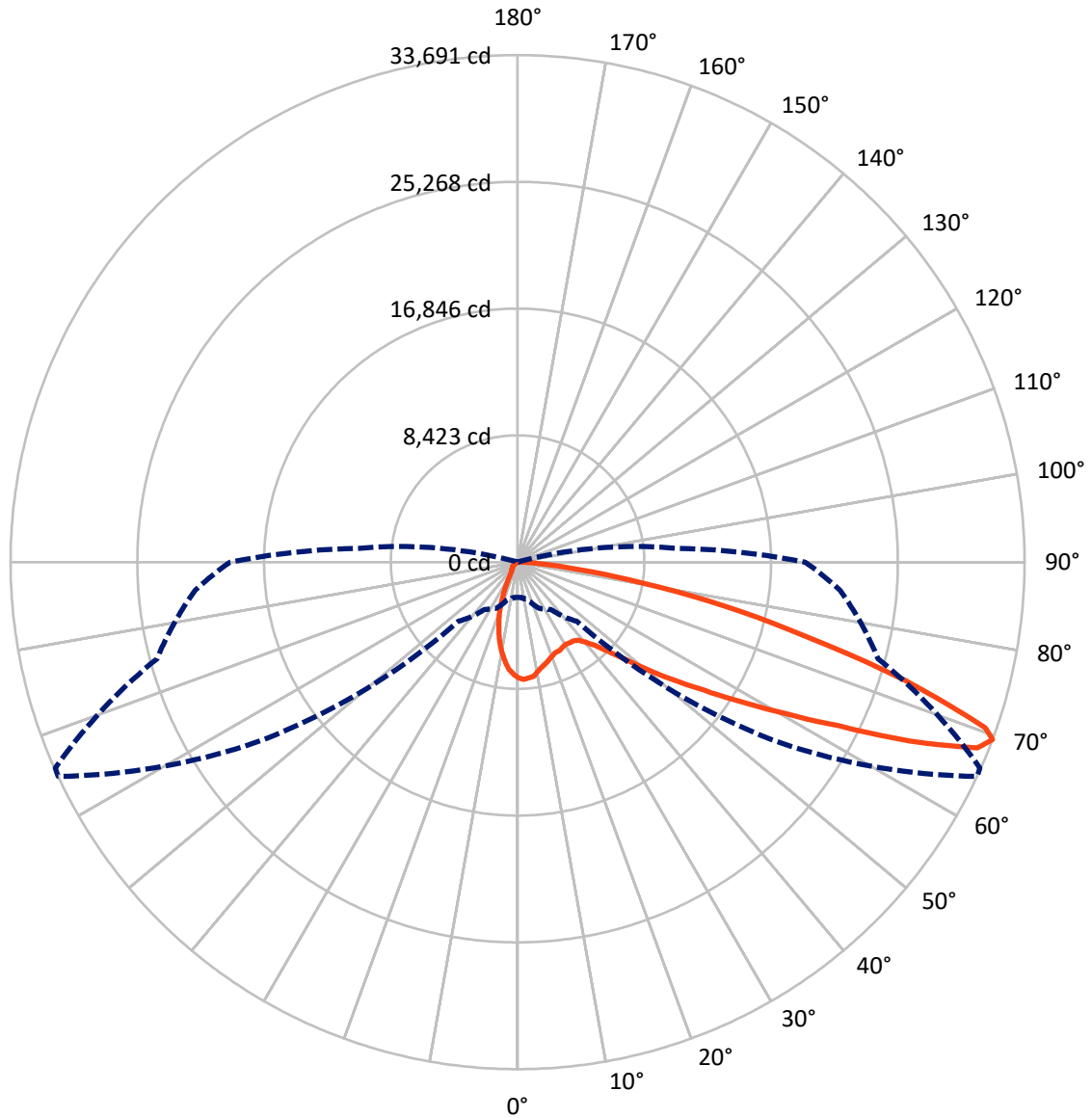
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 8.5 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



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

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3700.1	0.0	3700.1
	% Fixture	12.1	0.0	12.1
<b>Street Side</b>	Lumens	26802.4	0.0	26802.4
	% Fixture	87.9	0.0	87.9
<b>Total</b>	Lumens	30502.5	0.0	30502.5
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	629.3	2.1
10°-20°	1376.9	4.5
20°-30°	1917.0	6.3
30°-40°	2716.6	8.9
40°-50°	4281.3	14.0
50°-60°	6947.0	22.8
60°-70°	7758.4	25.4
70°-80°	4368.9	14.3
80°-90°	507.0	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°	30502.5	100.0
0°-180°	30502.5	100.0

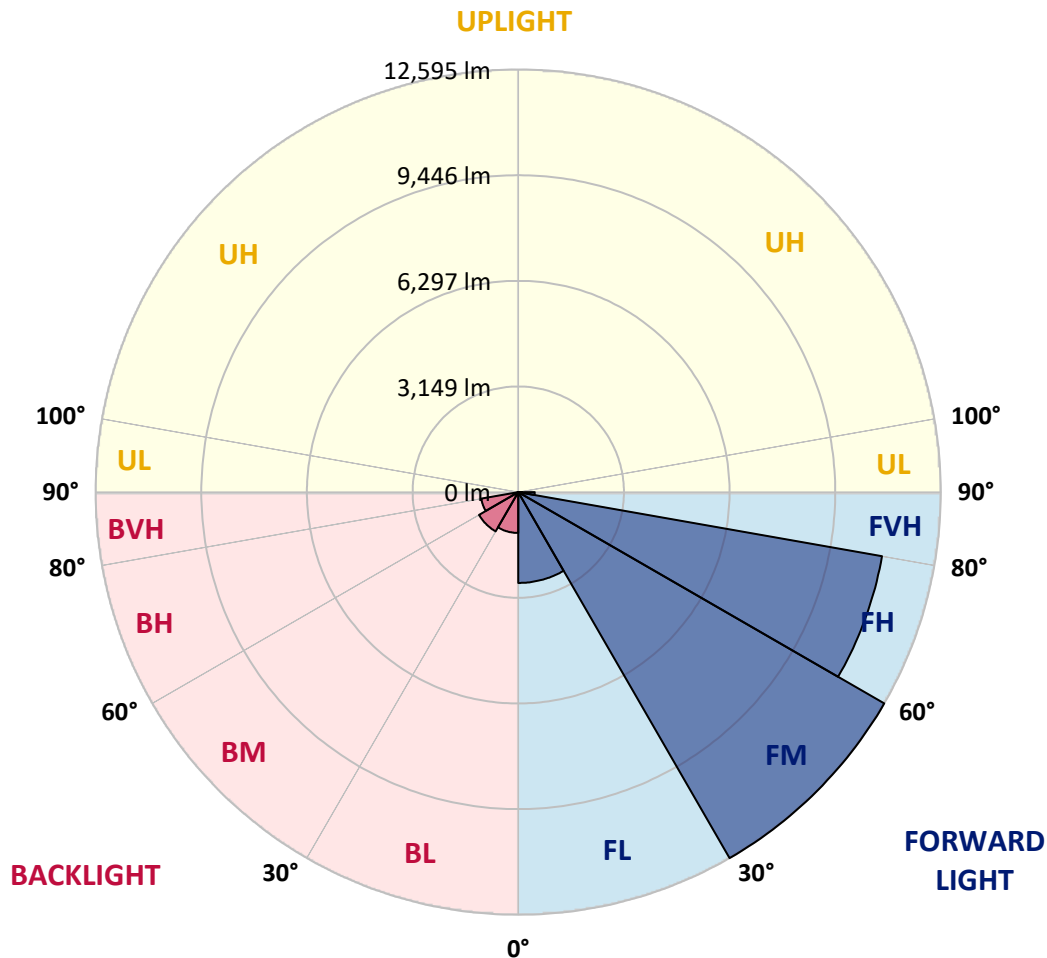


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2706.8	8.9			
FM (30°-60°)	12594.8	41.3			
FH (60°-80°)	11007.8	36.1			G4/12000
FVH (80°-90°)	493.0	1.6			G3/500
BL (0°-30°)	1216.5	4.0	B3/2500		
BM (30°-60°)	1350.2	4.4	B2/2500		
BH (60°-80°)	1119.5	3.7	B3/2500		G3/2500
BVH (80°-90°)	14.0	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





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	7690.4	7690.4	7690.4	7690.4	7690.4	7690.4	7690.4	7690.4	7690.4	7690.4	7690.4
2.5°	7406.5	7464.1	7480.5	7538.1	7566.9	7690.4	7760.3	7801.5	7780.9	7826.2	7830.3
5°	6879.8	6846.9	6933.3	6995.0	7126.7	7340.6	7558.7	7727.4	7805.6	7879.7	7867.3
7.5°	6316.1	6299.6	6386.0	6525.9	6645.3	6904.5	7254.2	7669.8	7653.4	7834.4	7887.9
10°	5929.3	5945.8	5974.6	6114.5	6291.4	6554.7	6990.9	7377.7	7464.1	7846.7	7953.7
12.5°	5575.4	5604.2	5657.7	5801.7	6007.5	6279.0	6702.9	7155.5	7287.1	7776.8	7990.8
15°	5460.2	5394.4	5501.4	5608.3	5822.3	6065.1	6423.1	6986.8	7044.4	7694.5	8052.5
17.5°	5365.6	5324.4	5373.8	5460.2	5686.5	5884.0	6221.4	6805.7	6912.7	7661.6	8044.3
20°	5394.4	5357.3	5377.9	5443.8	5546.6	5731.8	6044.5	6632.9	6748.1	7509.3	8031.9
22.5°	5476.7	5505.5	5468.4	5484.9	5517.8	5612.5	5949.9	6509.5	6608.2	7480.5	8101.9
25°	5847.0	5797.6	5748.2	5727.7	5534.3	5575.4	5921.1	6501.2	6571.2	7377.7	8044.3
27.5°	6233.8	6192.6	6172.1	6052.7	5789.4	5666.0	5925.2	6386.0	6480.7	7336.5	7974.3
30°	6702.9	6756.4	6674.1	6530.0	6163.8	5859.3	5970.4	6328.4	6460.1	7180.2	7929.0
32.5°	7196.6	7225.4	7266.6	7159.6	6686.4	6151.5	6106.2	6381.9	6390.1	7180.2	7826.2
35°	7756.2	7715.1	7822.1	7830.3	7414.7	6669.9	6365.5	6418.9	6505.4	7147.2	7789.1
37.5°	8237.6	8307.6	8431.0	8628.5	8200.6	7402.4	6768.7	6591.8	6628.8	7299.5	7817.9
40°	8764.3	8834.3	9114.1	9311.6	9068.8	8225.3	7381.8	6995.0	7023.8	7525.8	7966.1
42.5°	9344.5	9480.3	9813.6	10159.2	10093.4	9270.4	8171.8	7587.5	7575.2	8089.5	8270.6
45°	10130.4	10311.5	10673.6	11072.7	11130.3	10467.8	9225.2	8472.2	8513.3	8826.0	8900.1
47.5°	11224.9	11216.7	11570.6	12014.9	12348.2	11710.5	10484.3	9661.3	9657.2	9990.5	9834.2
50°	12282.4	12286.5	12381.2	12895.5	13759.6	13434.5	12043.8	11241.4	11196.1	11360.7	11109.7
52.5°	12772.1	12714.4	12644.5	13265.8	14845.9	15607.1	14018.8	13031.3	12994.2	12895.5	12829.7
55°	12257.7	12278.3	12274.2	12920.2	15417.8	17899.0	16553.5	15002.2	14940.5	14631.9	14722.4
57.5°	10607.7	10541.9	10685.9	11694.0	14763.6	19462.6	20178.5	17487.5	17327.0	16302.5	16096.7
60°	7896.1	7916.7	8036.0	9225.2	13138.3	19791.7	23647.2	20404.8	19713.6	17479.3	17195.4
62.5°	5513.7	5472.6	5517.8	6184.4	9393.9	18475.0	25992.6	23951.7	23285.1	18816.6	18652.0
65°	3946.0	3892.5	4073.6	4480.9	5641.3	14125.8	26325.9	28675.4	28078.8	20952.1	20557.1
67.5°	2839.1	2830.9	3040.8	3781.4	4007.7	8134.8	23857.1	32954.7	32592.6	23486.8	21717.4
69°	2349.5	2353.6	2555.2	3386.4	3826.7	5554.9	20528.3	33691.2	33625.4	24795.2	21499.4
70°	2049.1	2065.6	2300.1	3151.9	3752.6	4567.3	17697.4	32967.0	32901.2	25050.3	20779.3
72.5°	1263.2	1275.6	1584.2	2526.4	3567.5	3727.9	10583.0	26971.9	27198.2	23881.8	17903.1
75°	604.9	609.0	831.2	1826.9	3439.9	3534.5	5670.1	19902.8	20380.1	19281.5	13990.0
77.5°	320.9	320.9	399.1	971.1	2785.7	3324.7	3365.8	14039.4	14434.4	12191.9	7953.7
80°	160.5	164.6	242.8	506.1	1728.2	3258.8	2629.3	8373.4	8587.4	4974.7	2477.1
82.5°	61.7	65.8	115.2	304.5	897.0	2752.7	2308.4	4118.8	4065.3	1164.5	604.9
85°	8.2	8.2	41.1	181.0	382.7	1213.8	1905.1	1719.9	1662.3	255.1	292.1
87.5°	0.0	0.0	8.2	53.5	115.2	353.9	736.5	473.2	526.7	70.0	144.0
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°	7690.4	7690.4	7690.4	7690.4	7690.4	7690.4	7690.4	7690.4	7690.4	7690.4	7690.4
2.5°	7809.7	7723.3	7591.6	7464.1	7328.3	7163.7	6982.7	6916.8	6801.6	6793.4	6859.2
5°	7801.5	7661.6	7431.2	7159.6	6772.8	6480.7	6163.8	5933.4	5756.5	5641.3	5670.1
7.5°	7842.6	7673.9	7274.8	6690.5	6192.6	5612.5	5122.8	4785.4	4476.8	4324.6	4308.1
10°	7776.8	7550.5	6966.2	6147.4	5415.0	4604.4	3888.4	3435.8	2974.9	2806.2	2814.5
12.5°	7813.8	7497.0	6632.9	5587.8	4579.7	3526.3	2670.4	2053.2	1621.2	1481.3	1464.8
15°	7838.5	7381.8	6312.0	4917.1	3653.9	2403.0	1547.1	1164.5	1028.7	1004.0	999.9
17.5°	7743.9	7241.9	5859.3	4254.6	2707.5	1460.7	1028.7	950.5	925.8	909.4	901.1
20°	7739.8	7159.6	5468.4	3575.7	1806.4	995.8	888.8	860.0	822.9	810.6	810.6
22.5°	7669.8	6986.8	4999.4	2830.9	1152.1	855.9	798.3	753.0	711.8	695.4	691.3
25°	7649.2	6785.2	4559.1	2127.3	876.4	765.3	707.7	641.9	592.5	567.8	555.5
27.5°	7591.6	6612.3	4114.7	1497.8	765.3	683.0	609.0	539.0	481.4	444.4	440.3
30°	7385.9	6431.3	3620.9	1036.9	695.4	604.9	522.6	440.3	382.7	358.0	349.8
32.5°	7299.5	6262.6	3081.9	798.3	633.7	534.9	440.3	366.2	320.9	296.3	292.1
35°	7196.6	6015.7	2559.3	695.4	576.1	465.0	370.3	308.6	271.6	251.0	251.0
37.5°	7209.0	5818.2	2069.7	629.6	514.3	399.1	316.8	263.3	230.4	209.9	209.9
40°	7171.9	5661.8	1608.9	571.9	456.7	341.5	267.5	222.2	193.4	172.8	168.7
42.5°	7340.6	5620.7	1213.8	522.6	399.1	292.1	230.4	189.3	160.5	135.8	135.8
45°	7624.6	5686.5	946.4	477.3	341.5	251.0	197.5	156.4	127.6	111.1	107.0
47.5°	8381.7	5945.8	740.6	440.3	292.1	218.1	164.6	127.6	102.9	86.4	82.3
50°	9480.3	6525.9	629.6	386.8	246.9	185.2	135.8	98.8	82.3	65.8	61.7
52.5°	11043.9	7501.1	571.9	341.5	205.7	152.2	107.0	78.2	61.7	49.4	45.3
55°	12747.4	8719.1	518.5	288.0	172.8	123.4	86.4	61.7	45.3	32.9	28.8
57.5°	14076.4	9772.4	473.2	238.7	139.9	98.8	65.8	45.3	32.9	20.6	16.5
60°	15528.9	10513.1	415.6	189.3	115.2	74.1	49.4	32.9	24.7	12.3	12.3
62.5°	17026.7	11381.3	341.5	148.1	90.5	57.6	37.0	24.7	16.5	4.1	4.1
65°	19108.7	12060.2	263.3	115.2	70.0	41.1	28.8	20.6	8.2	0.0	0.0
67.5°	19697.1	11726.9	193.4	90.5	49.4	28.8	20.6	12.3	4.1	0.0	0.0
69°	19108.7	10562.5	168.7	78.2	41.1	24.7	16.5	8.2	4.1	0.0	0.0
70°	18034.8	9657.2	148.1	65.8	37.0	24.7	12.3	8.2	4.1	0.0	0.0
72.5°	15084.5	7406.5	115.2	49.4	28.8	20.6	12.3	8.2	0.0	0.0	0.0
75°	11064.5	4575.6	86.4	37.0	24.7	16.5	12.3	8.2	0.0	0.0	0.0
77.5°	5929.3	1670.6	61.7	24.7	16.5	12.3	12.3	8.2	0.0	0.0	0.0
80°	1625.3	493.8	45.3	16.5	12.3	8.2	8.2	4.1	0.0	0.0	0.0
82.5°	444.4	127.6	28.8	16.5	12.3	8.2	4.1	0.0	0.0	0.0	0.0
85°	238.7	49.4	16.5	12.3	8.2	4.1	0.0	0.0	0.0	0.0	0.0
87.5°	123.4	16.5	12.3	8.2	8.2	4.1	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)