

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: P483993

Luminaire Tested: **IFLD-L-SA7B-735-U-SL2-HSS**

Issue Date: 02/26/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P483993  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA7B-735-U-SL2-HSS  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL2  
distribution lens with House Side Shield  
Light Source: (112) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

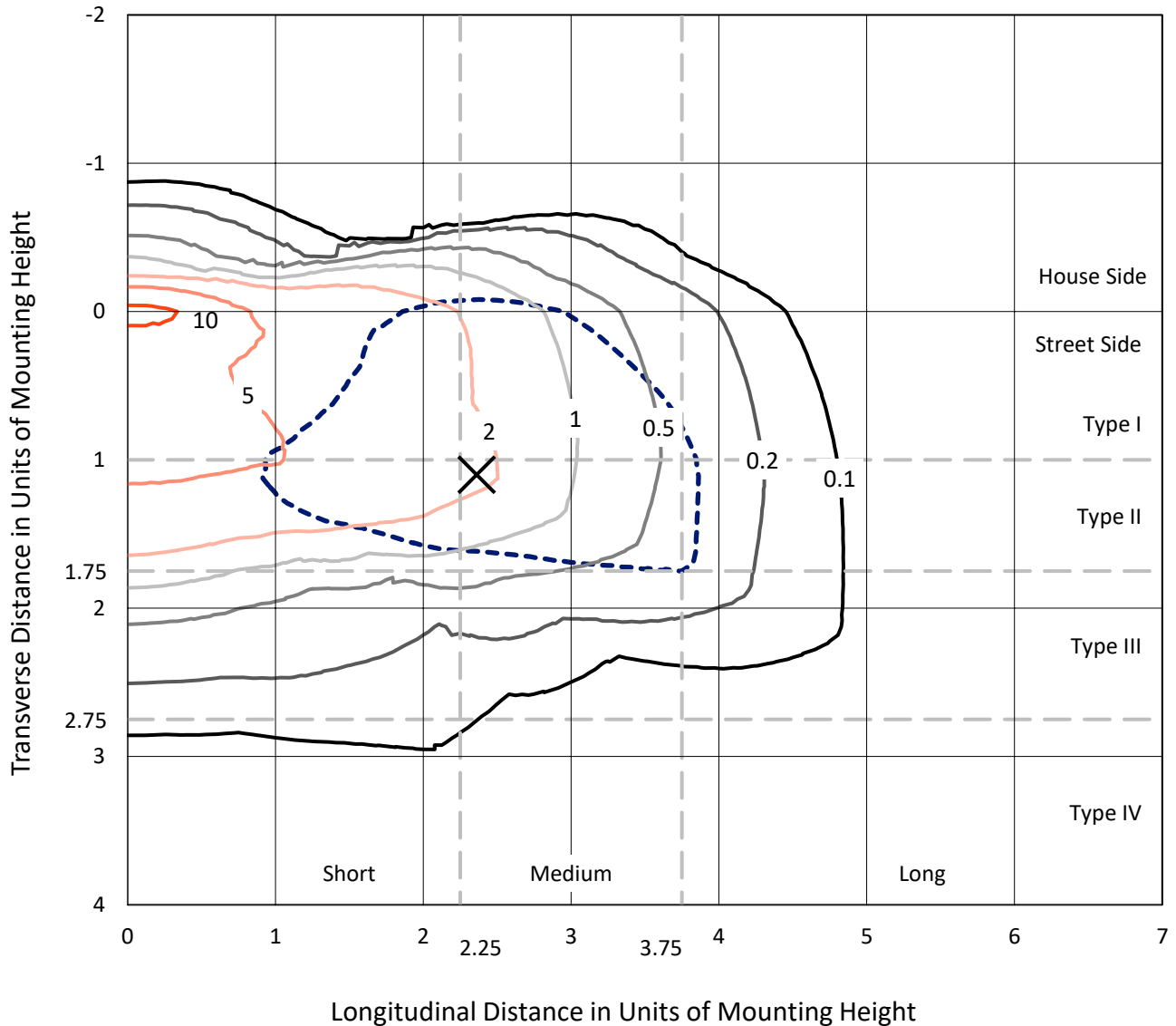
Lumens per Lamp: N/A  
Luminaire Lumens: 28909.1 lumens  
Efficiency: N/A  
Efficacy: 102.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B3 - U0 - G4

Input Watts (W): 281  
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

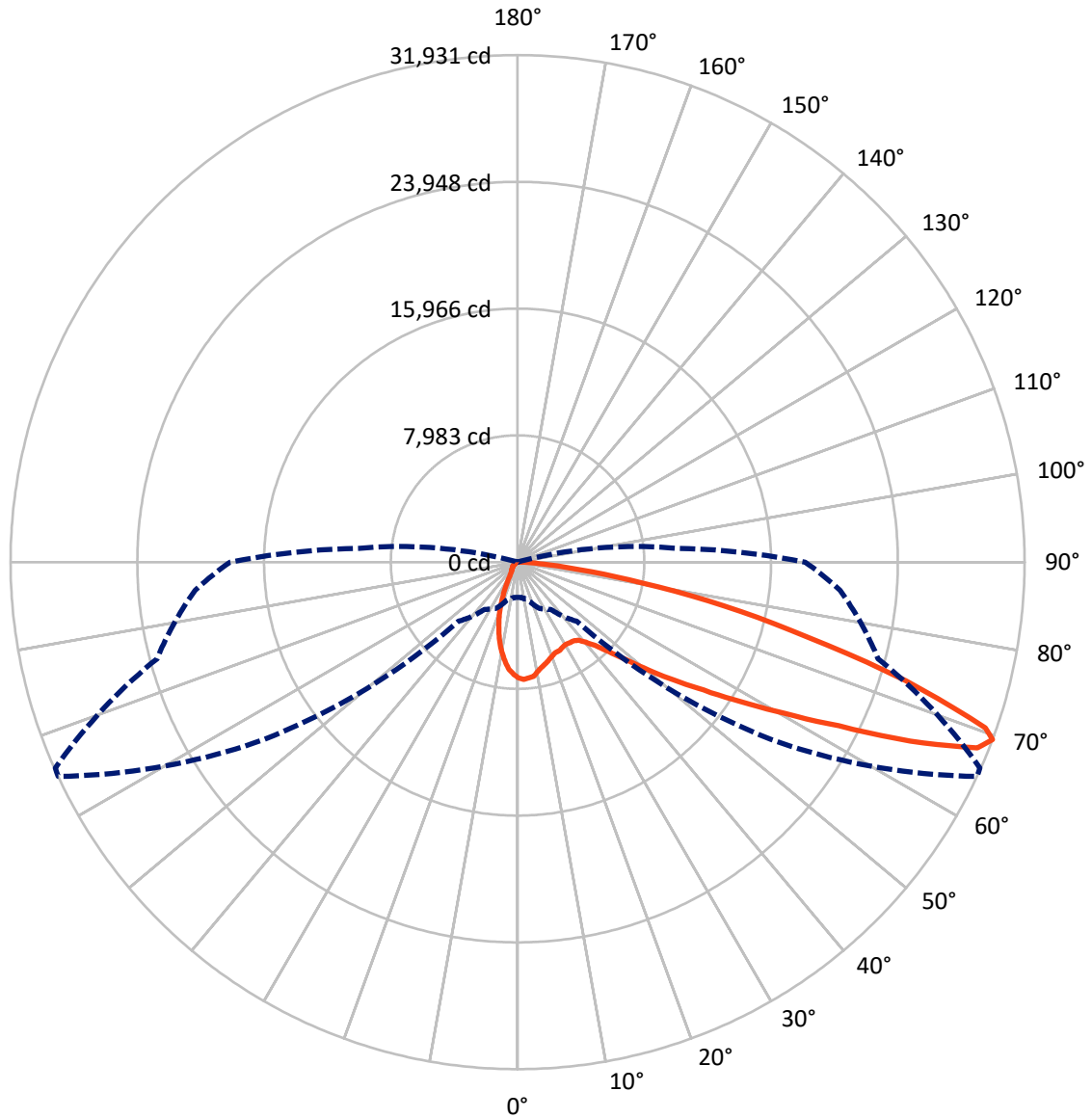
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.7 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	3506.9	0.0	3506.9
	% Fixture	12.1	0.0	12.1
<b>Street Side</b>	Lumens	25402.2	0.0	25402.2
	% Fixture	87.9	0.0	87.9
<b>Total</b>	Lumens	28909.1	0.0	28909.1
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	596.4	2.1
10°-20°	1305.0	4.5
20°-30°	1816.9	6.3
30°-40°	2574.7	8.9
40°-50°	4057.6	14.0
50°-60°	6584.1	22.8
60°-70°	7353.1	25.4
70°-80°	4140.7	14.3
80°-90°	480.5	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°	28909.1	100.0
0°-180°	28909.1	100.0



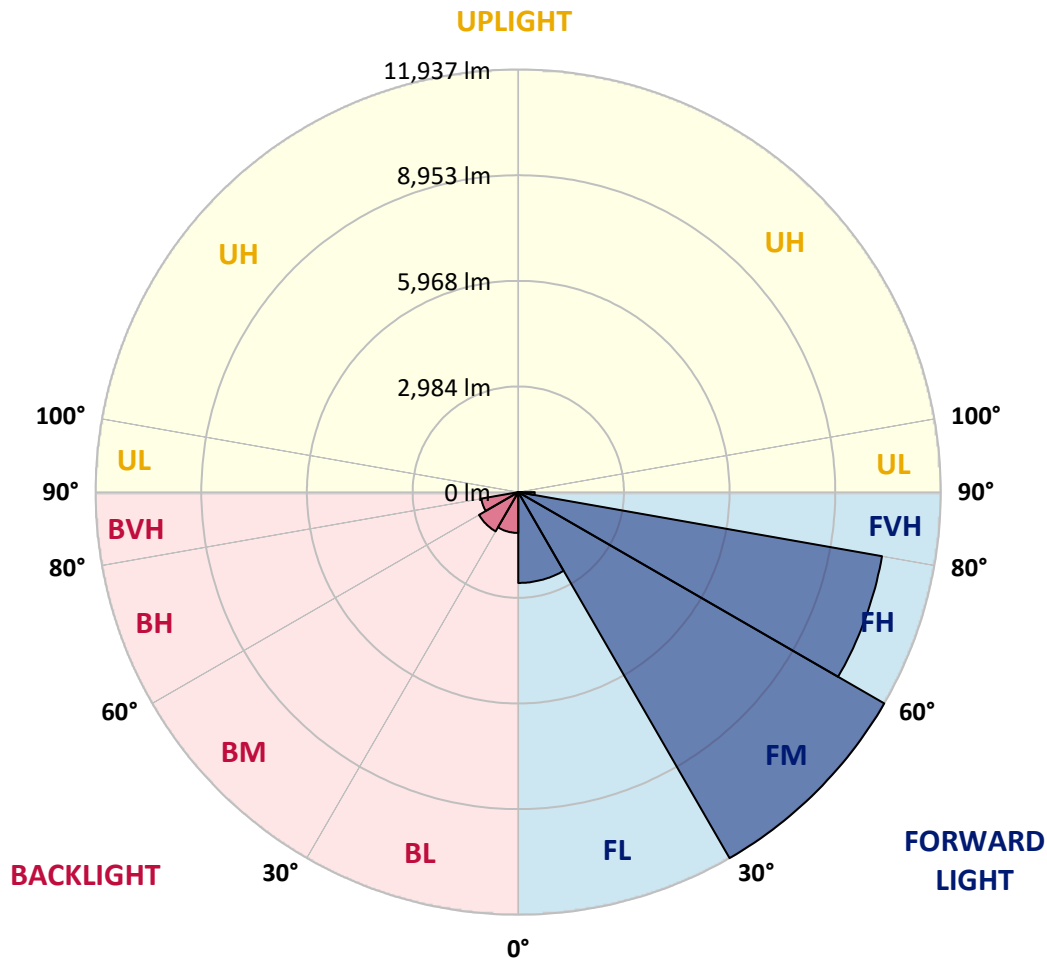
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2565.4	8.9			
FM (30°-60°)	11936.8	41.3			
FH (60°-80°)	10432.8	36.1			G4/12000
FVH (80°-90°)	467.2	1.6			G3/500
BL (0°-30°)	1152.9	4.0	B3/2500		
BM (30°-60°)	1279.6	4.4	B2/2500		
BH (60°-80°)	1061.0	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





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	7288.6	7288.6	7288.6	7288.6	7288.6	7288.6	7288.6	7288.6	7288.6	7288.6	7288.6
2.5°	7019.6	7074.2	7089.8	7144.4	7171.7	7288.6	7354.9	7393.9	7374.4	7417.3	7421.2
5°	6520.4	6489.2	6571.1	6629.6	6754.4	6957.2	7163.9	7323.7	7397.8	7468.0	7456.3
7.5°	5986.1	5970.5	6052.4	6185.0	6298.1	6543.8	6875.3	7269.1	7253.5	7425.1	7475.8
10°	5619.5	5635.1	5662.4	5795.0	5962.7	6212.3	6625.7	6992.3	7074.2	7436.8	7538.2
12.5°	5284.2	5311.5	5362.2	5498.7	5693.6	5951.0	6352.7	6781.7	6906.5	7370.5	7573.3
15°	5175.0	5112.6	5214.0	5315.4	5518.2	5748.2	6087.5	6621.8	6676.4	7292.5	7631.8
17.5°	5085.3	5046.3	5093.1	5175.0	5389.5	5576.7	5896.4	6450.2	6551.6	7261.3	7624.0
20°	5112.6	5077.5	5097.0	5159.4	5256.9	5432.4	5728.7	6286.4	6395.6	7117.1	7612.3
22.5°	5190.6	5217.9	5182.8	5198.4	5229.6	5319.3	5639.0	6169.4	6263.0	7089.8	7678.6
25°	5541.6	5494.8	5448.0	5428.5	5245.2	5284.2	5611.7	6161.6	6227.9	6992.3	7624.0
27.5°	5908.1	5869.1	5849.6	5736.5	5487.0	5370.0	5615.6	6052.4	6142.1	6953.3	7557.7
30°	6352.7	6403.4	6325.4	6188.9	5841.8	5553.3	5658.5	5997.8	6122.6	6805.1	7514.8
32.5°	6820.7	6848.0	6887.0	6785.6	6337.1	5830.1	5787.2	6048.5	6056.3	6805.1	7417.3
35°	7351.0	7312.0	7413.4	7421.2	7027.4	6321.5	6032.9	6083.6	6165.5	6773.9	7382.2
37.5°	7807.3	7873.6	7990.6	8177.8	7772.2	7015.7	6415.1	6247.4	6282.5	6918.2	7409.5
40°	8306.5	8372.8	8638.0	8825.1	8595.1	7795.6	6996.2	6629.6	6656.9	7132.7	7549.9
42.5°	8856.3	8985.0	9300.9	9628.5	9566.1	8786.1	7744.9	7191.1	7179.5	7666.9	7838.5
45°	9601.2	9772.8	10116.0	10494.2	10548.8	9921.0	8743.3	8029.6	8068.6	8365.0	8435.2
47.5°	10638.5	10630.7	10966.1	11387.3	11703.2	11098.7	9936.6	9156.6	9152.7	9468.6	9320.4
50°	11640.8	11644.7	11734.4	12221.8	13040.8	12732.7	11414.6	10654.1	10611.2	10767.2	10529.3
52.5°	12104.8	12050.2	11983.9	12572.8	14070.3	14791.8	13286.5	12350.5	12315.4	12221.8	12159.4
55°	11617.4	11636.9	11633.0	12245.2	14612.4	16963.9	15688.7	14218.5	14160.0	13867.5	13953.3
57.5°	10053.6	9991.2	10127.7	11083.1	13992.3	18445.8	19124.4	16574.0	16421.9	15450.8	15255.8
60°	7483.6	7503.1	7616.2	8743.3	12451.9	18757.8	22411.9	19338.9	18683.7	16566.2	16297.1
62.5°	5225.7	5186.7	5229.6	5861.3	8903.1	17509.9	24634.8	22700.5	22068.7	17833.6	17677.6
65°	3739.9	3689.2	3860.8	4246.8	5346.6	13387.9	24950.6	27177.4	26611.9	19857.6	19483.2
67.5°	2690.8	2683.0	2881.9	3583.9	3798.4	7709.8	22610.8	31233.1	30890.0	22259.8	20582.9
69°	2226.8	2230.7	2421.7	3209.5	3626.8	5264.7	19455.9	31931.2	31868.8	23499.9	20376.2
70°	1942.1	1957.7	2180.0	2987.2	3556.6	4328.7	16772.8	31244.8	31182.4	23741.7	19693.8
72.5°	1197.2	1208.9	1501.4	2394.5	3381.1	3533.2	10030.2	25562.9	25777.4	22634.2	16967.8
75°	573.3	577.2	787.8	1731.5	3260.2	3349.9	5373.9	18863.1	19315.5	18274.3	13259.2
77.5°	304.2	304.2	378.3	920.3	2640.1	3151.0	3190.0	13306.0	13680.3	11555.0	7538.2
80°	152.1	156.0	230.1	479.7	1637.9	3088.6	2491.9	7936.0	8138.8	4714.8	2347.7
82.5°	58.5	62.4	109.2	288.6	850.1	2608.9	2187.8	3903.7	3853.0	1103.6	573.3
85°	7.8	7.8	39.0	171.6	362.7	1150.4	1805.6	1630.1	1575.5	241.8	276.9
87.5°	0.0	0.0	7.8	50.7	109.2	335.4	698.1	448.5	499.2	66.3	136.5
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°	7288.6	7288.6	7288.6	7288.6	7288.6	7288.6	7288.6	7288.6	7288.6	7288.6	7288.6
2.5°	7401.7	7319.8	7195.0	7074.2	6945.5	6789.5	6617.9	6555.5	6446.3	6438.5	6500.9
5°	7393.9	7261.3	7043.0	6785.6	6419.0	6142.1	5841.8	5623.4	5455.8	5346.6	5373.9
7.5°	7432.9	7273.0	6894.8	6341.0	5869.1	5319.3	4855.2	4535.4	4242.9	4098.6	4083.0
10°	7370.5	7156.1	6602.3	5826.2	5132.1	4363.8	3685.3	3256.3	2819.5	2659.6	2667.4
12.5°	7405.6	7105.4	6286.4	5295.9	4340.4	3342.1	2530.9	1946.0	1536.5	1403.9	1388.3
15°	7429.0	6996.2	5982.2	4660.2	3463.0	2277.5	1466.3	1103.6	974.9	951.5	947.6
17.5°	7339.3	6863.6	5553.3	4032.3	2566.0	1384.4	974.9	900.8	877.4	861.8	854.0
20°	7335.4	6785.6	5182.8	3388.9	1712.0	943.7	842.3	815.0	780.0	768.3	768.3
22.5°	7269.1	6621.8	4738.2	2683.0	1091.9	811.1	756.6	713.7	674.7	659.1	655.2
25°	7249.6	6430.7	4320.9	2016.2	830.6	725.4	670.8	608.4	561.6	538.2	526.5
27.5°	7195.0	6266.9	3899.8	1419.5	725.4	647.4	577.2	510.9	456.3	421.2	417.3
30°	7000.1	6095.3	3431.8	982.7	659.1	573.3	495.3	417.3	362.7	339.3	331.5
32.5°	6918.2	5935.4	2920.9	756.6	600.6	507.0	417.3	347.1	304.2	280.8	276.9
35°	6820.7	5701.4	2425.6	659.1	546.0	440.7	351.0	292.5	257.4	237.9	237.9
37.5°	6832.4	5514.3	1961.6	596.7	487.5	378.3	300.3	249.6	218.4	198.9	198.9
40°	6797.3	5366.1	1524.8	542.1	432.9	323.7	253.5	210.6	183.3	163.8	159.9
42.5°	6957.2	5327.1	1150.4	495.3	378.3	276.9	218.4	179.4	152.1	128.7	128.7
45°	7226.2	5389.5	896.9	452.4	323.7	237.9	187.2	148.2	120.9	105.3	101.4
47.5°	7943.8	5635.1	702.0	417.3	276.9	206.7	156.0	120.9	97.5	81.9	78.0
50°	8985.0	6185.0	596.7	366.6	234.0	175.5	128.7	93.6	78.0	62.4	58.5
52.5°	10466.9	7109.3	542.1	323.7	195.0	144.3	101.4	74.1	58.5	46.8	42.9
55°	12081.4	8263.6	491.4	273.0	163.8	117.0	81.9	58.5	42.9	31.2	27.3
57.5°	13341.1	9261.9	448.5	226.2	132.6	93.6	62.4	42.9	31.2	19.5	15.6
60°	14717.7	9963.9	393.9	179.4	109.2	70.2	46.8	31.2	23.4	11.7	11.7
62.5°	16137.2	10786.7	323.7	140.4	85.8	54.6	35.1	23.4	15.6	3.9	3.9
65°	18110.5	11430.2	249.6	109.2	66.3	39.0	27.3	19.5	7.8	0.0	0.0
67.5°	18668.1	11114.3	183.3	85.8	46.8	27.3	19.5	11.7	3.9	0.0	0.0
69°	18110.5	10010.7	159.9	74.1	39.0	23.4	15.6	7.8	3.9	0.0	0.0
70°	17092.6	9152.7	140.4	62.4	35.1	23.4	11.7	7.8	3.9	0.0	0.0
72.5°	14296.5	7019.6	109.2	46.8	27.3	19.5	11.7	7.8	0.0	0.0	0.0
75°	10486.4	4336.5	81.9	35.1	23.4	15.6	11.7	7.8	0.0	0.0	0.0
77.5°	5619.5	1583.3	58.5	23.4	15.6	11.7	11.7	7.8	0.0	0.0	0.0
80°	1540.4	468.0	42.9	15.6	11.7	7.8	7.8	3.9	0.0	0.0	0.0
82.5°	421.2	120.9	27.3	15.6	11.7	7.8	3.9	0.0	0.0	0.0	0.0
85°	226.2	46.8	15.6	11.7	7.8	3.9	0.0	0.0	0.0	0.0	0.0
87.5°	117.0	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)