

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: P482323

Luminaire Tested: **IFLD-L-SA8D-722-U-T3-HSS**

Issue Date: 02/26/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P482323  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA8D-722-U-T3-HSS  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3  
distribution lens with House Side Shield  
Light Source: (128) 2200K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

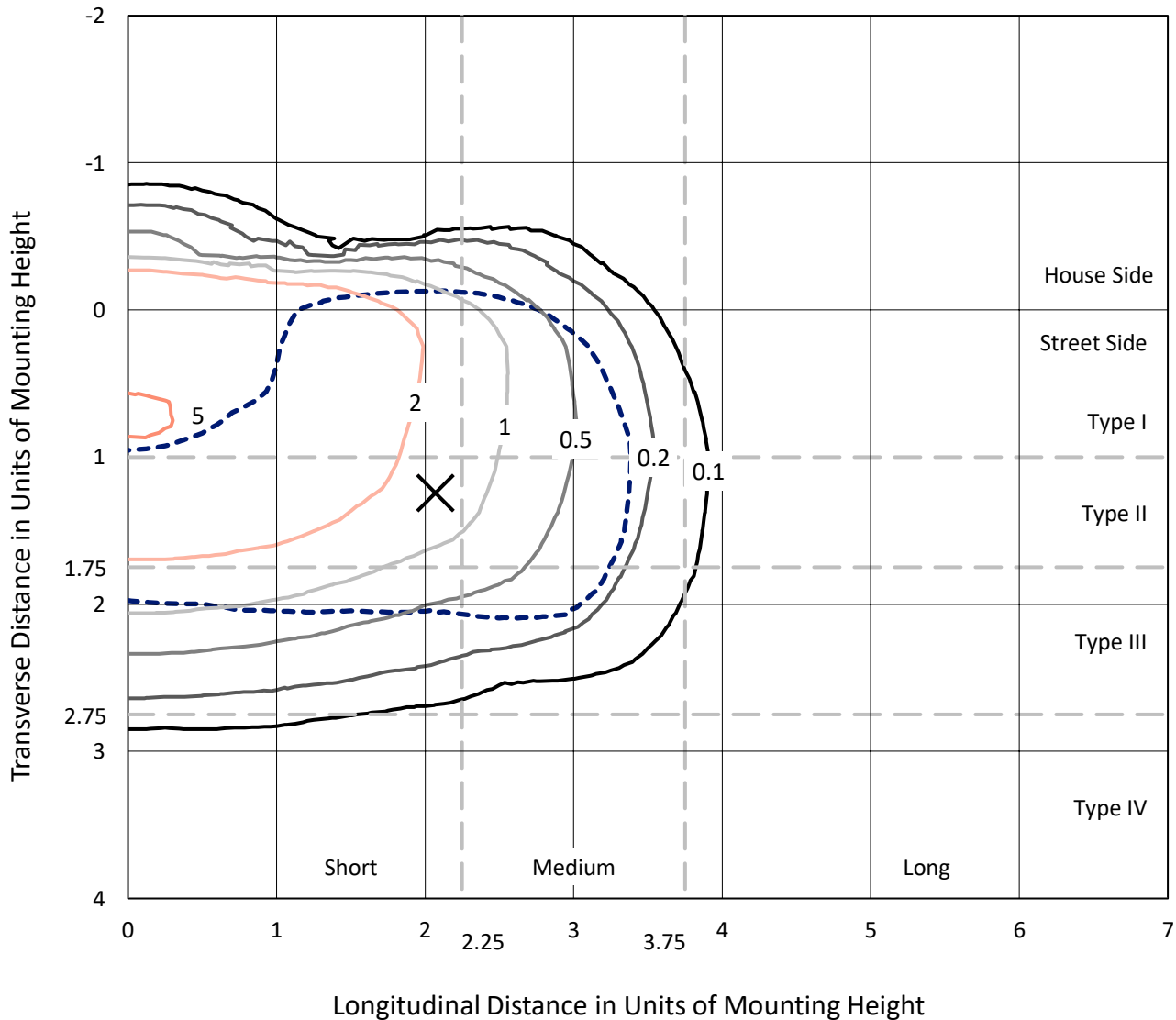
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 30470.3 lumens  
Efficiency: N/A  
Efficacy: 62.4 lumens/watt  
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.5')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G4  
  
Input Watts (W): 488.3  
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

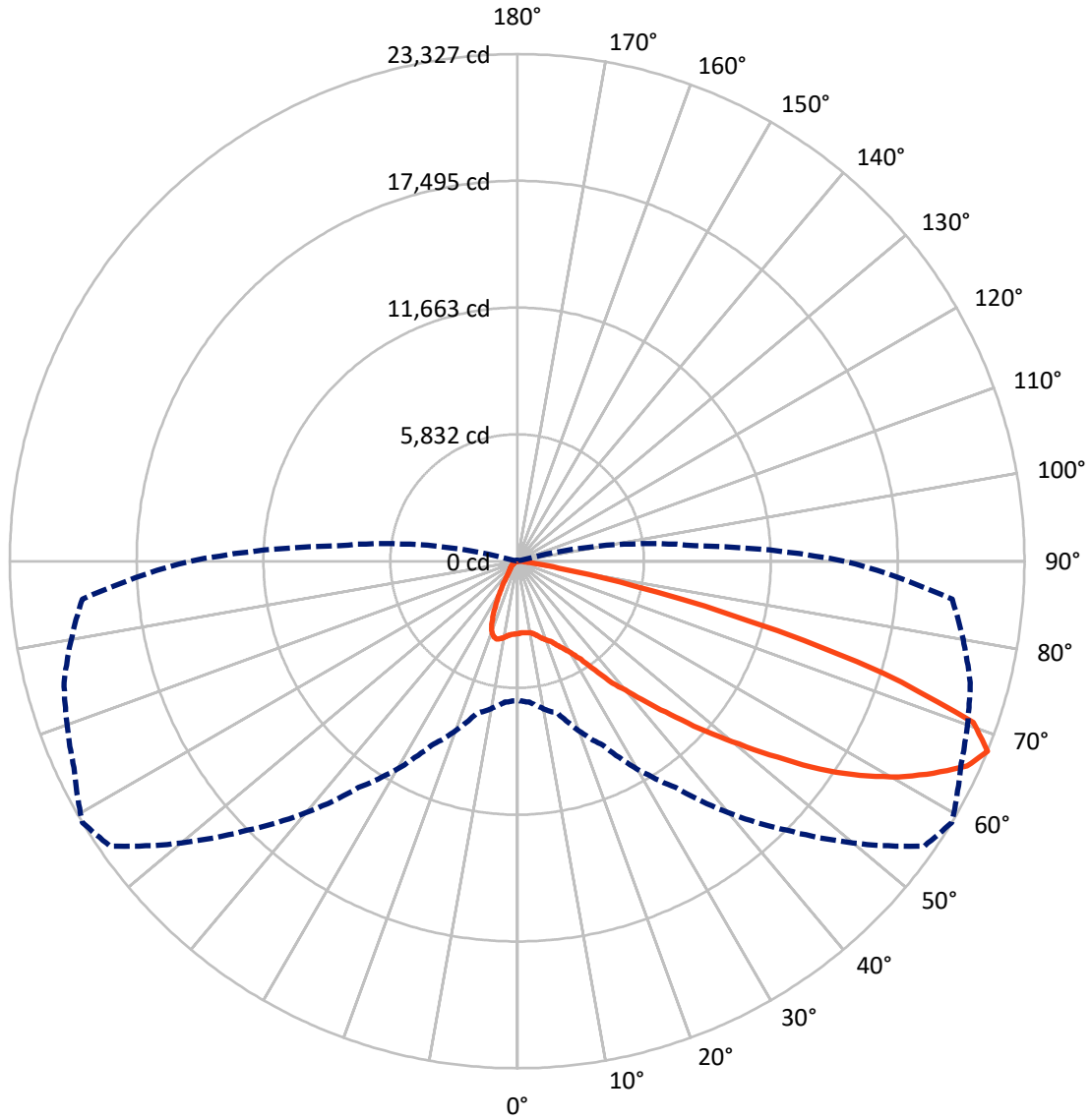
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5.3 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral      - - - Horizontal Cone Through 67.5-Deg Vertical

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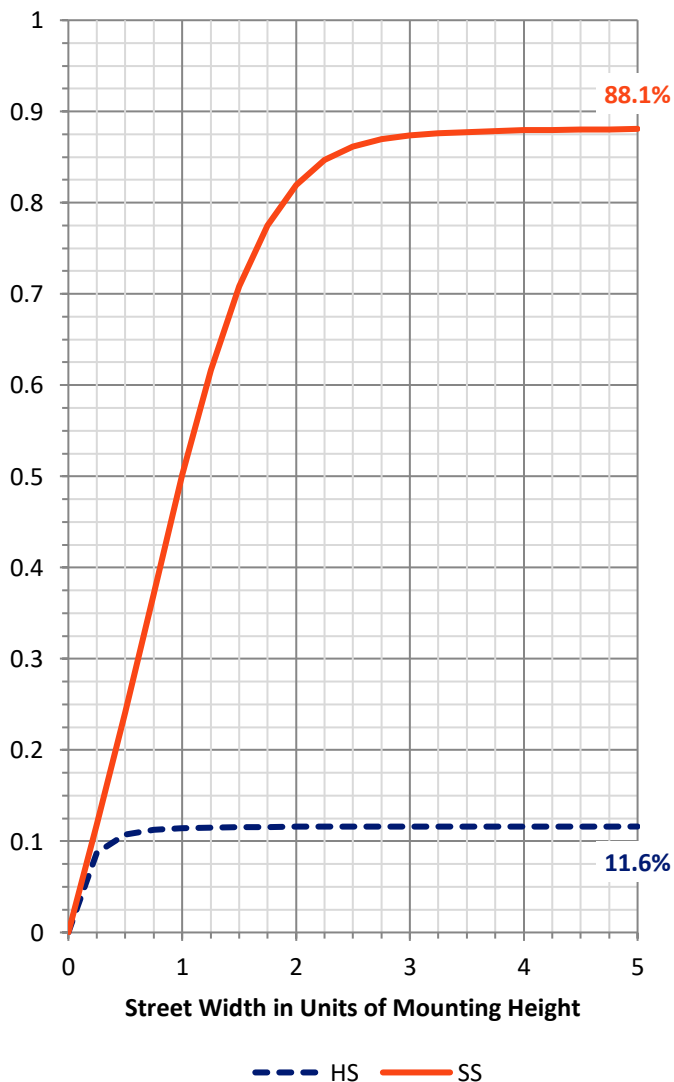
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3579.2	0.0	3579.2
	% Fixture	11.7	0.0	11.7
<b>Street Side</b>	Lumens	26891.0	0.0	26891.0
	% Fixture	88.3	0.0	88.3
<b>Total</b>	Lumens	30470.3	0.0	30470.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	317.5	1.0
10°-20°	917.0	3.0
20°-30°	1602.7	5.3
30°-40°	2821.7	9.3
40°-50°	4988.0	16.4
50°-60°	7897.7	25.9
60°-70°	8760.7	28.8
70°-80°	3039.8	10.0
80°-90°	125.2	0.4
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°	30470.3	100.0
0°-180°	30470.3	100.0

**Coefficient of Utilization**

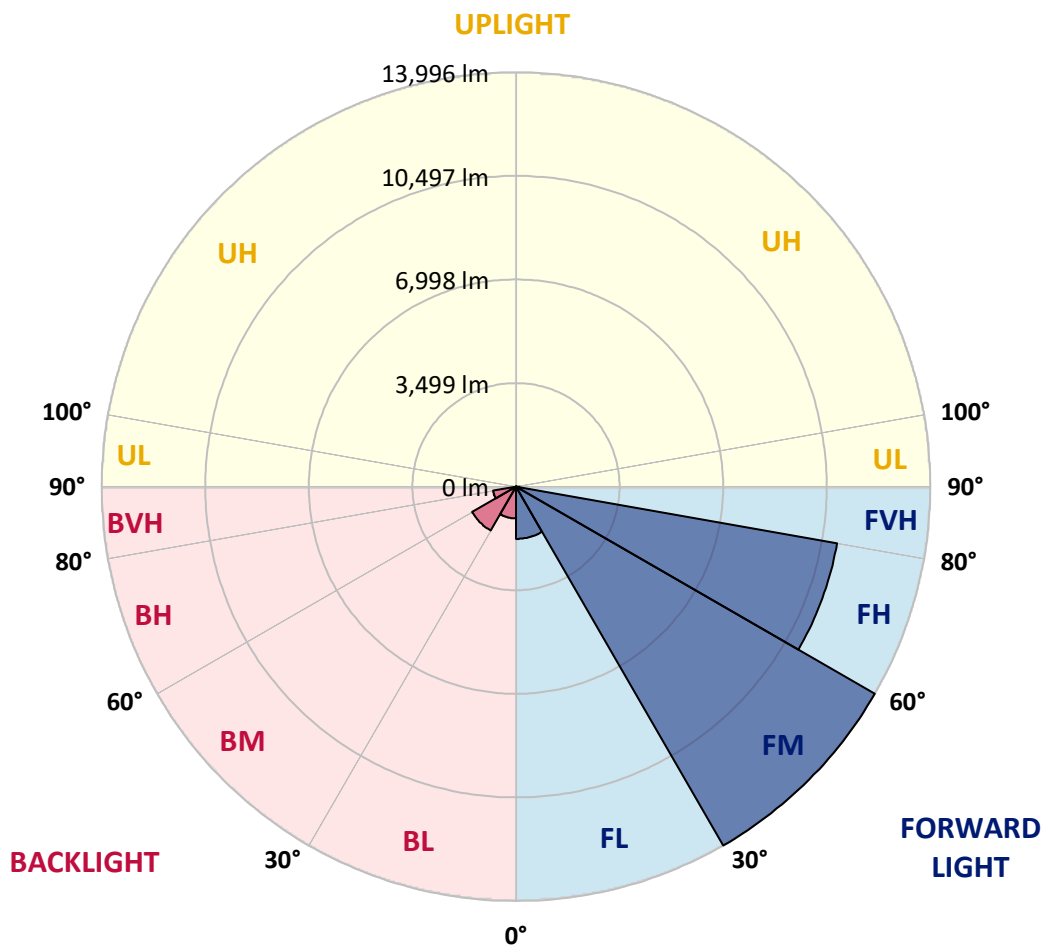


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1764.5	5.8			
FM (30°-60°)	13996.1	45.9			
FH (60°-80°)	11013.4	36.1			G4/12000
FVH (80°-90°)	117.1	0.4			G2/225
BL (0°-30°)	1072.7	3.5	B3/2500		
BM (30°-60°)	1711.3	5.6	B2/2500		
BH (60°-80°)	787.1	2.6	B2/1000		G2/1000
BVH (80°-90°)	8.1	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-G4**  
 Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	3342.0	3342.0	3342.0	3342.0	3342.0	3342.0	3342.0	3342.0	3342.0	3342.0	3342.0
2.5°	3245.2	3198.9	3241.0	3245.2	3249.4	3287.3	3329.4	3300.0	3295.7	3329.4	3358.9
5°	3114.7	3093.7	3144.2	3169.5	3211.6	3245.2	3312.6	3316.8	3321.0	3358.9	3409.4
7.5°	3060.0	3009.5	3068.4	3097.9	3127.4	3207.4	3287.3	3329.4	3388.3	3434.6	3485.2
10°	2950.6	2988.5	3005.3	3055.8	3140.0	3232.6	3329.4	3350.5	3480.9	3518.8	3640.9
12.5°	2988.5	3013.7	3047.4	3060.0	3152.6	3291.5	3422.0	3430.4	3565.1	3729.3	3792.4
15°	3085.3	3068.4	3081.1	3097.9	3207.4	3321.0	3531.5	3569.3	3695.6	3880.8	4036.5
17.5°	3291.5	3262.1	3241.0	3236.8	3262.1	3367.3	3615.6	3729.3	3847.1	4099.7	4179.7
20°	3809.3	3784.0	3699.8	3480.9	3405.2	3447.3	3716.7	3876.6	4040.8	4322.8	4453.2
22.5°	4596.4	4621.6	4423.8	4116.5	3800.8	3636.7	3876.6	4015.5	4276.5	4634.2	4752.1
25°	5526.6	5476.1	5236.1	4878.4	4381.7	3994.5	4133.4	4289.1	4609.0	4903.6	4949.9
27.5°	6254.8	6195.8	6010.6	5577.1	5147.8	4520.6	4470.1	4566.9	4945.7	5210.9	5160.4
30°	6974.5	6995.6	6869.3	6355.8	5825.4	5164.6	4844.7	4886.8	5177.2	5518.2	5404.5
32.5°	7892.1	7841.6	7770.0	7319.7	6692.5	5985.4	5438.2	5370.8	5497.1	5947.5	5812.8
35°	8746.6	8717.1	8620.3	8165.7	7618.5	6848.2	6313.7	6162.2	6132.7	6633.6	6397.9
37.5°	9491.6	9441.1	9293.7	9003.3	8473.0	7824.8	7239.7	7105.0	7100.8	7445.9	6991.3
40°	10118.7	10156.6	10139.8	9819.9	9529.4	9011.7	8115.2	7900.5	7883.7	8068.9	7803.7
42.5°	10931.1	11019.5	10973.2	10910.0	10560.7	10358.6	9344.2	9015.9	8868.6	9247.4	9007.5
45°	12160.1	12193.8	12223.3	12067.5	11718.2	11760.3	10615.4	10224.0	10186.1	10750.1	10211.3
47.5°	13309.2	13220.8	13427.1	13435.5	13418.7	13225.1	11987.6	11697.1	11747.7	12177.0	11621.4
50°	13595.5	13822.8	14391.0	14496.2	14769.8	14946.6	13511.3	13220.8	13305.0	13793.3	13157.7
52.5°	13818.5	14163.7	14731.9	15502.2	16238.8	16659.7	15216.0	14980.3	14976.1	15274.9	14399.4
55°	14210.0	14420.4	14912.9	15973.6	17375.3	18065.5	17270.0	16891.2	16550.3	16760.7	15687.4
57.5°	14172.1	14252.1	15018.1	16327.2	18276.0	19530.3	18957.9	18595.9	18158.1	18036.1	17169.0
60°	13507.1	13696.5	14555.1	16087.3	18831.6	20671.0	20532.1	20161.7	19408.3	19122.0	18305.5
62.5°	12189.6	12442.2	13115.6	15245.4	18023.5	20729.9	21618.0	21479.1	20637.3	20123.8	19787.1
65°	9878.8	9996.7	10771.1	13107.2	16196.7	19825.0	22901.8	22729.3	21954.8	21188.7	20548.9
67.5°	6397.9	6511.5	7256.5	9356.9	12720.0	17488.9	22851.3	23326.9	22489.3	21567.5	20073.3
70°	3022.1	2992.7	3687.2	5198.3	8148.9	13355.5	21306.6	22245.2	21533.9	19551.4	16672.3
72.5°	921.8	1001.8	1532.1	2302.4	4183.9	8329.9	16701.8	17581.5	17358.4	15620.0	11128.9
75°	408.3	442.0	601.9	942.8	1696.3	3417.8	10316.6	11099.5	11002.6	9213.8	5080.4
77.5°	261.0	286.2	378.8	538.8	770.3	1086.0	4752.1	5513.9	5345.6	3236.8	1330.1
80°	185.2	197.8	269.4	370.4	484.0	446.2	1637.3	1944.6	1864.6	879.7	357.8
82.5°	101.0	109.4	197.8	273.6	324.1	227.3	458.8	572.4	597.7	391.4	172.6
85°	37.9	46.3	122.1	193.6	168.4	105.2	134.7	164.2	214.7	214.7	80.0
87.5°	0.0	4.2	50.5	84.2	42.1	29.5	37.9	46.3	58.9	101.0	29.5
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°	3342.0	3342.0	3342.0	3342.0	3342.0	3342.0	3342.0	3342.0	3342.0	3342.0	3342.0
2.5°	3379.9	3350.5	3363.1	3384.1	3337.8	3363.1	3312.6	3350.5	3363.1	3312.6	3337.8
5°	3422.0	3451.5	3434.6	3401.0	3371.5	3379.9	3367.3	3337.8	3363.1	3371.5	3354.7
7.5°	3544.1	3510.4	3518.8	3480.9	3422.0	3417.8	3337.8	3316.8	3325.2	3333.6	3304.2
10°	3657.7	3678.8	3636.7	3607.2	3510.4	3447.3	3337.8	3220.0	3207.4	3156.8	3198.9
12.5°	3859.8	3809.3	3792.4	3695.6	3598.8	3388.3	3152.6	2971.6	2820.1	2765.4	2710.7
15°	4028.1	4019.7	3990.2	3842.9	3619.8	3236.8	2790.6	2369.7	2079.3	1898.3	1873.1
17.5°	4259.6	4221.7	4167.0	3935.5	3464.1	2841.2	2079.3	1549.0	1258.5	1144.9	1102.8
20°	4436.4	4406.9	4331.2	3914.5	3182.1	2117.2	1288.0	984.9	913.4	892.3	896.5
22.5°	4693.2	4600.6	4457.5	3809.3	2668.6	1410.1	926.0	879.7	867.1	850.2	854.5
25°	4916.3	4832.1	4533.2	3628.3	1902.5	934.4	858.7	833.4	812.4	791.3	787.1
27.5°	5114.1	5008.9	4613.2	3257.9	1191.2	803.9	795.5	766.1	724.0	690.3	677.7
30°	5307.7	5185.6	4634.2	2563.4	803.9	728.2	707.1	660.8	606.1	559.8	551.4
32.5°	5631.8	5484.5	4604.8	1831.0	694.5	648.2	601.9	547.2	467.2	429.3	420.9
35°	6136.9	5913.8	4566.9	1077.5	622.9	572.4	500.9	429.3	370.4	332.5	324.1
37.5°	6717.8	6330.5	4457.5	719.8	572.4	505.1	412.5	340.9	290.4	261.0	252.5
40°	7580.6	6940.8	4036.5	589.3	509.3	429.3	332.5	269.4	231.5	210.5	202.0
42.5°	8531.9	7639.6	3388.3	530.3	450.4	366.2	265.2	218.9	189.4	168.4	168.4
45°	9672.6	8367.7	2613.9	484.0	399.9	303.1	218.9	176.8	151.5	134.7	126.3
47.5°	10943.7	9028.6	1763.6	437.7	336.7	248.3	181.0	134.7	109.4	96.8	96.8
50°	12080.2	9613.6	1123.8	383.0	294.6	206.2	147.3	109.4	88.4	71.6	67.3
52.5°	13111.4	10059.8	774.5	336.7	252.5	168.4	122.1	88.4	67.3	54.7	54.7
55°	14167.9	10287.1	572.4	290.4	218.9	143.1	101.0	80.0	58.9	46.3	42.1
57.5°	15035.0	10383.9	437.7	252.5	185.2	113.6	88.4	67.3	50.5	37.9	33.7
60°	15775.8	10337.6	340.9	210.5	147.3	96.8	75.8	54.7	42.1	29.5	25.3
62.5°	16209.3	10059.8	269.4	181.0	117.9	84.2	63.1	46.3	29.5	21.0	16.8
65°	16217.7	9470.5	210.5	134.7	88.4	71.6	54.7	37.9	21.0	8.4	4.2
67.5°	15056.0	8195.2	168.4	105.2	71.6	54.7	42.1	29.5	8.4	0.0	0.0
70°	11777.1	6200.0	138.9	84.2	58.9	46.3	29.5	16.8	4.2	0.0	0.0
72.5°	7504.9	3712.4	113.6	67.3	50.5	33.7	21.0	12.6	0.0	0.0	0.0
75°	3140.0	1144.9	88.4	58.9	37.9	25.3	16.8	4.2	0.0	0.0	0.0
77.5°	808.2	362.0	71.6	50.5	37.9	21.0	12.6	4.2	0.0	0.0	0.0
80°	239.9	134.7	58.9	42.1	29.5	16.8	8.4	4.2	0.0	0.0	0.0
82.5°	109.4	80.0	50.5	37.9	25.3	16.8	8.4	0.0	0.0	0.0	0.0
85°	42.1	25.3	25.3	21.0	21.0	12.6	4.2	0.0	0.0	0.0	0.0
87.5°	16.8	8.4	8.4	8.4	4.2	4.2	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)