

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: P482438

Luminaire Tested: **IFLD-L-SA8B-735-U-T3-HSS**

Issue Date: 02/26/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P482438  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA8B-735-U-T3-HSS  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3  
distribution lens with House Side Shield  
Light Source: (128) 3500K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

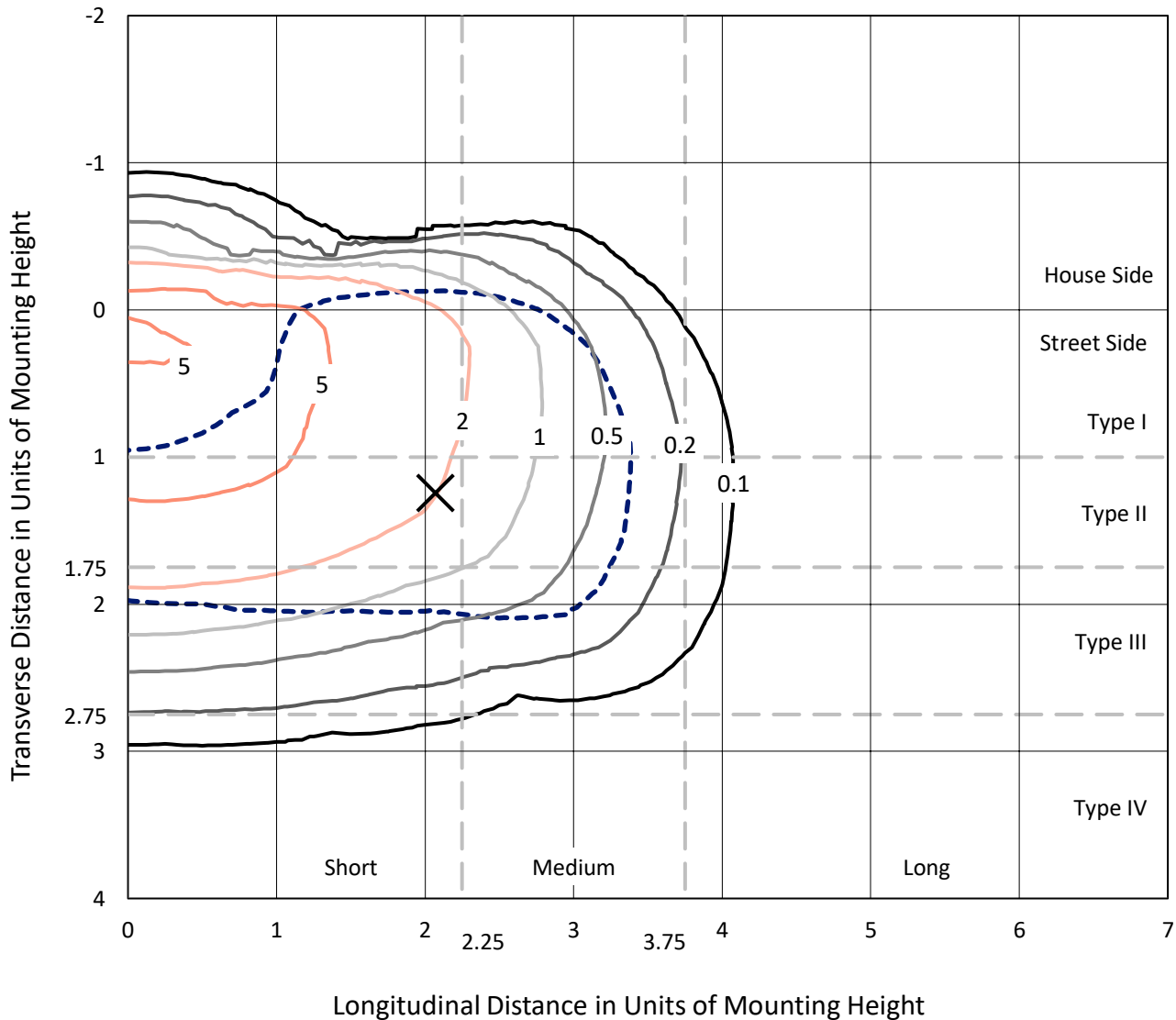
Lumens per Lamp: N/A  
Luminaire Lumens: 29785.7 lumens  
Efficiency: N/A  
Efficacy: 93.1 lumens/watt  
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.5')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G4

Input Watts (W): 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

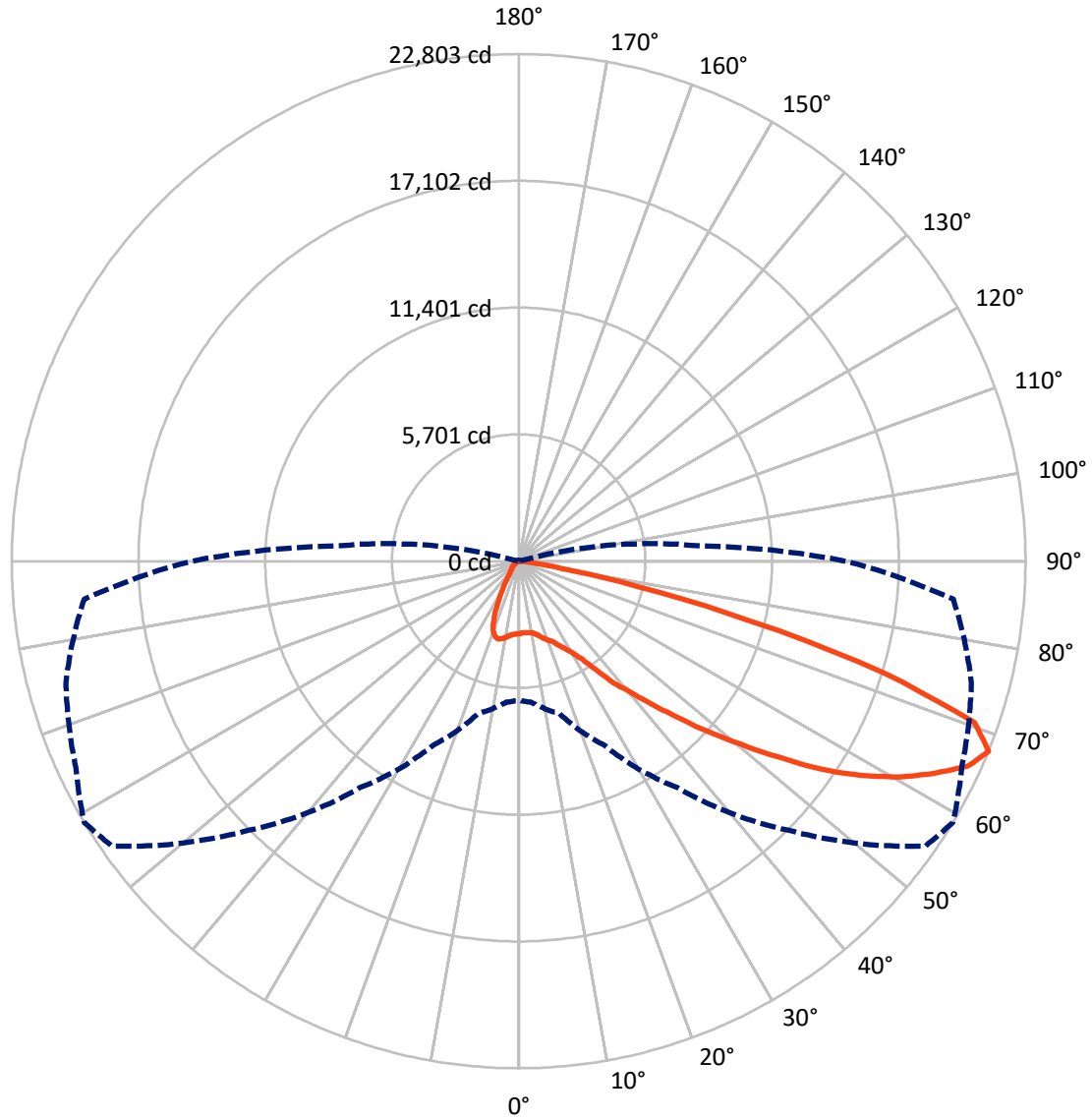
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.5 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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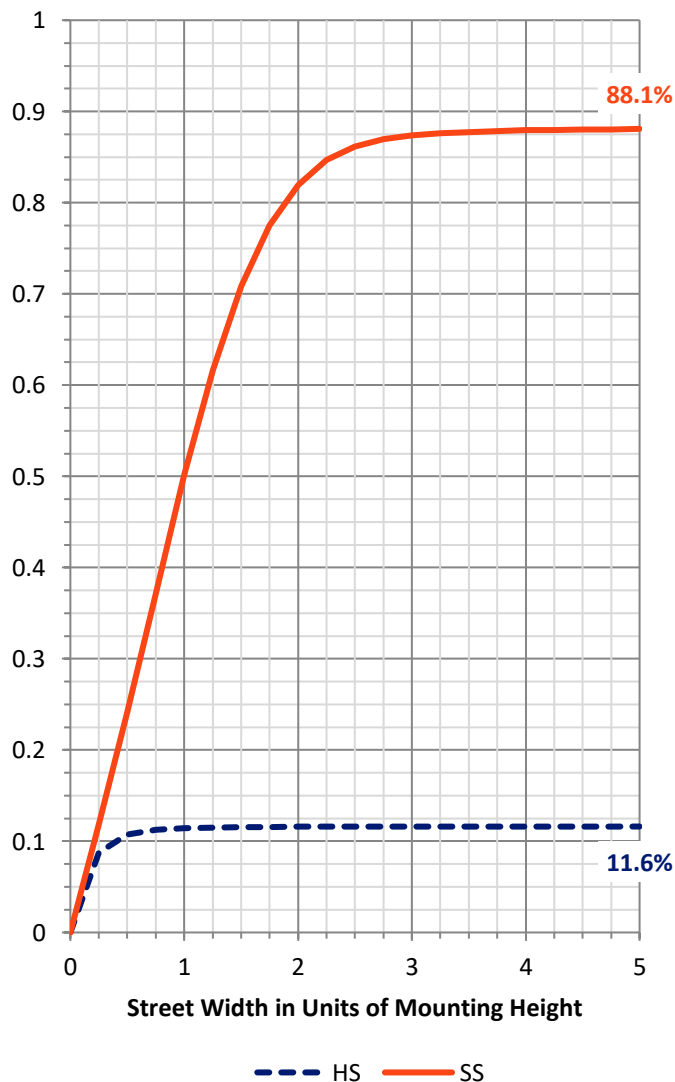
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3498.8	0.0	3498.8
	% Fixture	11.7	0.0	11.7
<b>Street Side</b>	Lumens	26286.8	0.0	26286.8
	% Fixture	88.3	0.0	88.3
<b>Total</b>	Lumens	29785.7	0.0	29785.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	310.3	1.0
10°-20°	896.4	3.0
20°-30°	1566.7	5.3
30°-40°	2758.3	9.3
40°-50°	4875.9	16.4
50°-60°	7720.3	25.9
60°-70°	8563.9	28.8
70°-80°	2971.5	10.0
80°-90°	122.4	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°	29785.7	100.0
0°-180°	29785.7	100.0

**Coefficient of Utilization**

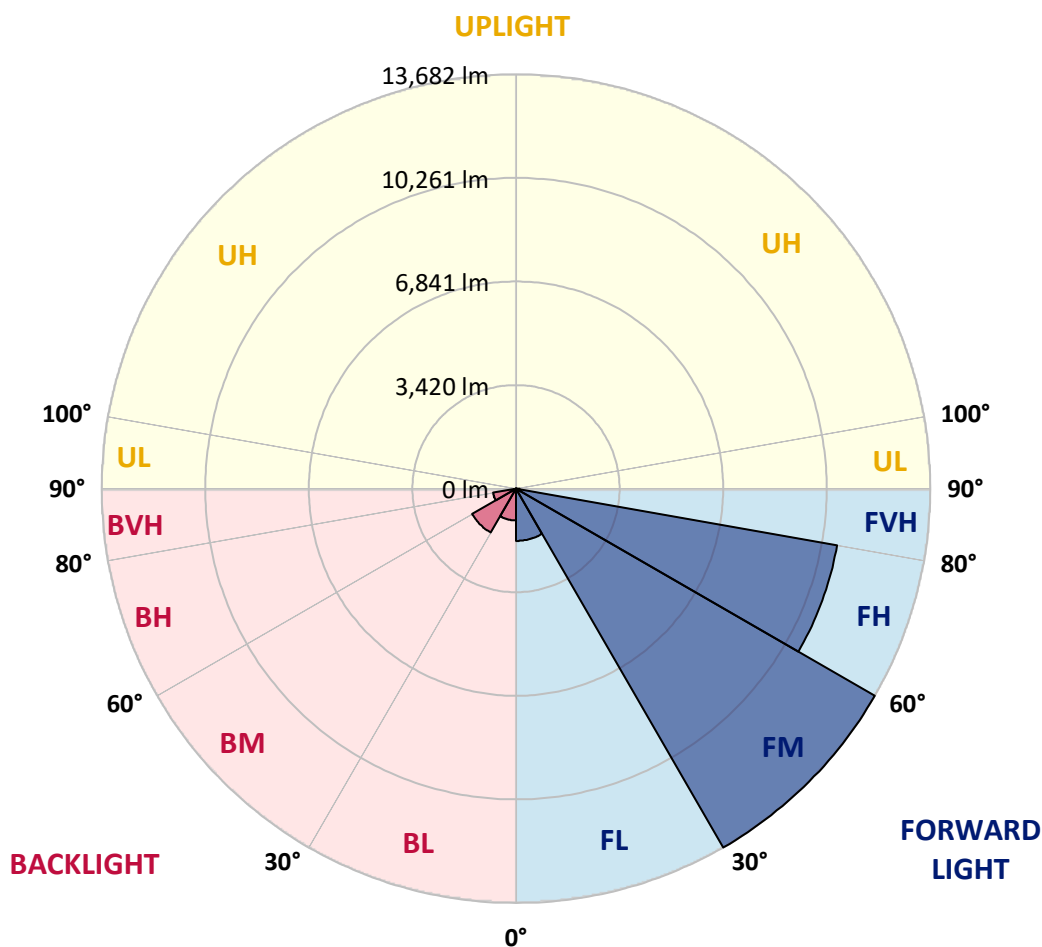


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1724.8	5.8			
FM (30°-60°)	13681.7	45.9			
FH (60°-80°)	10765.9	36.1			G4/12000
FVH (80°-90°)	114.4	0.4			G2/225
BL (0°-30°)	1048.6	3.5	B3/2500		
BM (30°-60°)	1672.8	5.6	B2/2500		
BH (60°-80°)	769.5	2.6	B2/1000		G2/1000
BVH (80°-90°)	7.9	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°	3267.0	3267.0	3267.0	3267.0	3267.0	3267.0	3267.0	3267.0	3267.0	3267.0	3267.0
2.5°	3172.3	3127.1	3168.2	3172.3	3176.4	3213.5	3254.6	3225.8	3221.7	3254.6	3283.4
5°	3044.8	3024.2	3073.6	3098.3	3139.4	3172.3	3238.2	3242.3	3246.4	3283.4	3332.8
7.5°	2991.3	2941.9	2999.5	3028.3	3057.1	3135.3	3213.5	3254.6	3312.2	3357.5	3406.8
10°	2884.3	2921.3	2937.8	2987.2	3069.5	3160.0	3254.6	3275.2	3402.7	3439.8	3559.1
12.5°	2921.3	2946.0	2978.9	2991.3	3081.8	3217.6	3345.1	3353.4	3485.0	3645.5	3707.2
15°	3016.0	2999.5	3011.9	3028.3	3135.3	3246.4	3452.1	3489.1	3612.6	3793.6	3945.9
17.5°	3217.6	3188.8	3168.2	3164.1	3188.8	3291.6	3534.4	3645.5	3760.7	4007.6	4085.7
20°	3723.7	3699.0	3616.7	3402.7	3328.7	3369.8	3633.1	3789.5	3950.0	4225.6	4353.2
22.5°	4493.1	4517.8	4324.4	4024.0	3715.4	3555.0	3789.5	3925.3	4180.4	4530.1	4645.3
25°	5402.4	5353.0	5118.5	4768.8	4283.2	3904.7	4040.5	4192.7	4505.4	4793.5	4838.7
27.5°	6114.2	6056.6	5875.6	5451.8	5032.1	4419.0	4369.7	4464.3	4834.6	5093.8	5044.4
30°	6817.8	6838.4	6714.9	6213.0	5694.5	5048.6	4735.8	4777.0	5060.9	5394.2	5283.1
32.5°	7714.8	7665.4	7595.5	7155.2	6542.1	5850.9	5316.0	5250.2	5373.6	5813.9	5682.2
35°	8550.0	8521.2	8426.6	7982.2	7447.3	6694.4	6171.8	6023.7	5994.9	6484.5	6254.1
37.5°	9278.3	9228.9	9084.9	8801.0	8282.6	7649.0	7077.0	6945.4	6941.2	7278.6	6834.3
40°	9891.4	9928.4	9912.0	9599.2	9315.3	8809.3	7932.9	7723.0	7706.6	7887.6	7628.4
42.5°	10685.5	10771.9	10726.6	10664.9	10323.4	10125.9	9134.3	8813.4	8669.4	9039.7	8805.1
45°	11886.9	11919.9	11948.7	11796.4	11454.9	11496.1	10376.9	9994.2	9957.2	10508.6	9981.9
47.5°	13010.2	12923.8	13125.4	13133.6	13117.2	12927.9	11718.2	11434.3	11483.7	11903.4	11360.3
50°	13290.0	13512.2	14067.7	14170.5	14438.0	14610.8	13207.7	12923.8	13006.1	13483.4	12862.1
52.5°	13508.1	13845.5	14400.9	15153.9	15873.9	16285.4	14874.1	14643.7	14639.6	14931.7	14075.9
55°	13890.7	14096.5	14577.9	15614.7	16984.9	17659.7	16882.0	16511.7	16178.4	16384.1	15334.9
57.5°	13853.7	13931.9	14680.7	15960.3	17865.4	19091.5	18531.9	18178.1	17750.2	17630.9	16783.3
60°	13203.6	13388.8	14228.1	15725.8	18408.5	20206.6	20070.8	19708.7	18972.2	18692.4	17894.2
62.5°	11915.7	12162.6	12820.9	14902.9	17618.5	20264.2	21132.3	20996.6	20173.6	19671.7	19342.5
65°	9656.9	9772.1	10529.1	12812.7	15832.8	19379.5	22387.3	22218.6	21461.5	20712.7	20087.2
67.5°	6254.1	6365.2	7093.5	9146.6	12434.2	17096.0	22337.9	22802.8	21984.0	21083.0	19622.3
70°	2954.2	2925.4	3604.3	5081.5	7965.8	13055.5	20827.9	21745.4	21050.0	19112.1	16297.7
72.5°	901.1	979.3	1497.7	2250.7	4089.9	8142.7	16326.5	17186.5	16968.4	15269.1	10878.9
75°	399.1	432.0	588.4	921.7	1658.2	3341.0	10084.8	10850.1	10755.4	9006.8	4966.3
77.5°	255.1	279.8	370.3	526.7	753.0	1061.6	4645.3	5390.1	5225.5	3164.1	1300.2
80°	181.0	193.4	263.3	362.1	473.2	436.1	1600.6	1900.9	1822.7	859.9	349.7
82.5°	98.7	107.0	193.4	267.4	316.8	222.2	448.5	559.6	584.3	382.7	168.7
85°	37.0	45.3	119.3	189.3	164.6	102.9	131.7	160.5	209.8	209.8	78.2
87.5°	0.0	4.1	49.4	82.3	41.1	28.8	37.0	45.3	57.6	98.7	28.8
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°	3267.0	3267.0	3267.0	3267.0	3267.0	3267.0	3267.0	3267.0	3267.0	3267.0	3267.0
2.5°	3304.0	3275.2	3287.5	3308.1	3262.8	3287.5	3238.2	3275.2	3287.5	3238.2	3262.8
5°	3345.1	3373.9	3357.5	3324.6	3295.8	3304.0	3291.6	3262.8	3287.5	3295.8	3279.3
7.5°	3464.5	3431.5	3439.8	3402.7	3345.1	3341.0	3262.8	3242.3	3250.5	3258.7	3229.9
10°	3575.5	3596.1	3555.0	3526.2	3431.5	3369.8	3262.8	3147.6	3135.3	3085.9	3127.1
12.5°	3773.0	3723.7	3707.2	3612.6	3517.9	3312.2	3081.8	2904.9	2756.7	2703.3	2649.8
15°	3937.6	3929.4	3900.6	3756.6	3538.5	3164.1	2727.9	2316.5	2032.6	1855.7	1831.0
17.5°	4163.9	4126.9	4073.4	3847.1	3386.3	2777.3	2032.6	1514.2	1230.3	1119.2	1078.0
20°	4336.7	4307.9	4233.9	3826.5	3110.6	2069.6	1259.1	962.8	892.9	872.3	876.4
22.5°	4587.7	4497.2	4357.3	3723.7	2608.6	1378.4	905.2	859.9	847.6	831.1	835.3
25°	4805.8	4723.5	4431.4	3546.7	1859.8	913.4	839.4	814.7	794.1	773.5	769.4
27.5°	4999.2	4896.3	4509.5	3184.7	1164.4	785.9	777.7	748.8	707.7	674.8	662.4
30°	5188.4	5069.1	4530.1	2505.8	785.9	711.8	691.2	646.0	592.5	547.2	539.0
32.5°	5505.3	5361.3	4501.3	1789.8	678.9	633.6	588.4	534.9	456.7	419.7	411.5
35°	5999.0	5780.9	4464.3	1053.3	609.0	559.6	489.6	419.7	362.1	325.0	316.8
37.5°	6566.8	6188.3	4357.3	703.6	559.6	493.7	403.2	333.3	283.9	255.1	246.9
40°	7410.3	6784.9	3945.9	576.0	497.9	419.7	325.0	263.3	226.3	205.7	197.5
42.5°	8340.2	7467.9	3312.2	518.4	440.3	358.0	259.2	214.0	185.2	164.6	164.6
45°	9455.2	8179.7	2555.1	473.2	390.9	296.2	214.0	172.8	148.1	131.7	123.4
47.5°	10697.8	8825.7	1724.0	427.9	329.2	242.8	176.9	131.7	107.0	94.6	94.6
50°	11808.8	9397.6	1098.6	374.4	288.0	201.6	144.0	107.0	86.4	69.9	65.8
52.5°	12816.8	9833.8	757.1	329.2	246.9	164.6	119.3	86.4	65.8	53.5	53.5
55°	13849.6	10056.0	559.6	283.9	214.0	139.9	98.7	78.2	57.6	45.3	41.1
57.5°	14697.2	10150.6	427.9	246.9	181.0	111.1	86.4	65.8	49.4	37.0	32.9
60°	15421.3	10105.3	333.3	205.7	144.0	94.6	74.1	53.5	41.1	28.8	24.7
62.5°	15845.1	9833.8	263.3	176.9	115.2	82.3	61.7	45.3	28.8	20.6	16.5
65°	15853.4	9257.7	205.7	131.7	86.4	69.9	53.5	37.0	20.6	8.2	4.1
67.5°	14717.8	8011.0	164.6	102.9	69.9	53.5	41.1	28.8	8.2	0.0	0.0
70°	11512.5	6060.7	135.8	82.3	57.6	45.3	28.8	16.5	4.1	0.0	0.0
72.5°	7336.2	3629.0	111.1	65.8	49.4	32.9	20.6	12.3	0.0	0.0	0.0
75°	3069.5	1119.2	86.4	57.6	37.0	24.7	16.5	4.1	0.0	0.0	0.0
77.5°	790.0	353.9	69.9	49.4	37.0	20.6	12.3	4.1	0.0	0.0	0.0
80°	234.5	131.7	57.6	41.1	28.8	16.5	8.2	4.1	0.0	0.0	0.0
82.5°	107.0	78.2	49.4	37.0	24.7	16.5	8.2	0.0	0.0	0.0	0.0
85°	41.1	24.7	24.7	20.6	20.6	12.3	4.1	0.0	0.0	0.0	0.0
87.5°	16.5	8.2	8.2	8.2	4.1	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)