

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: P484432

Luminaire Tested: **IFLD-S-SA2C-750-U-SL3-HSS**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P484432  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA2C-750-U-SL3-HSS  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL3 distribution lens with House Side Shield  
Light Source: (32) 5000K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

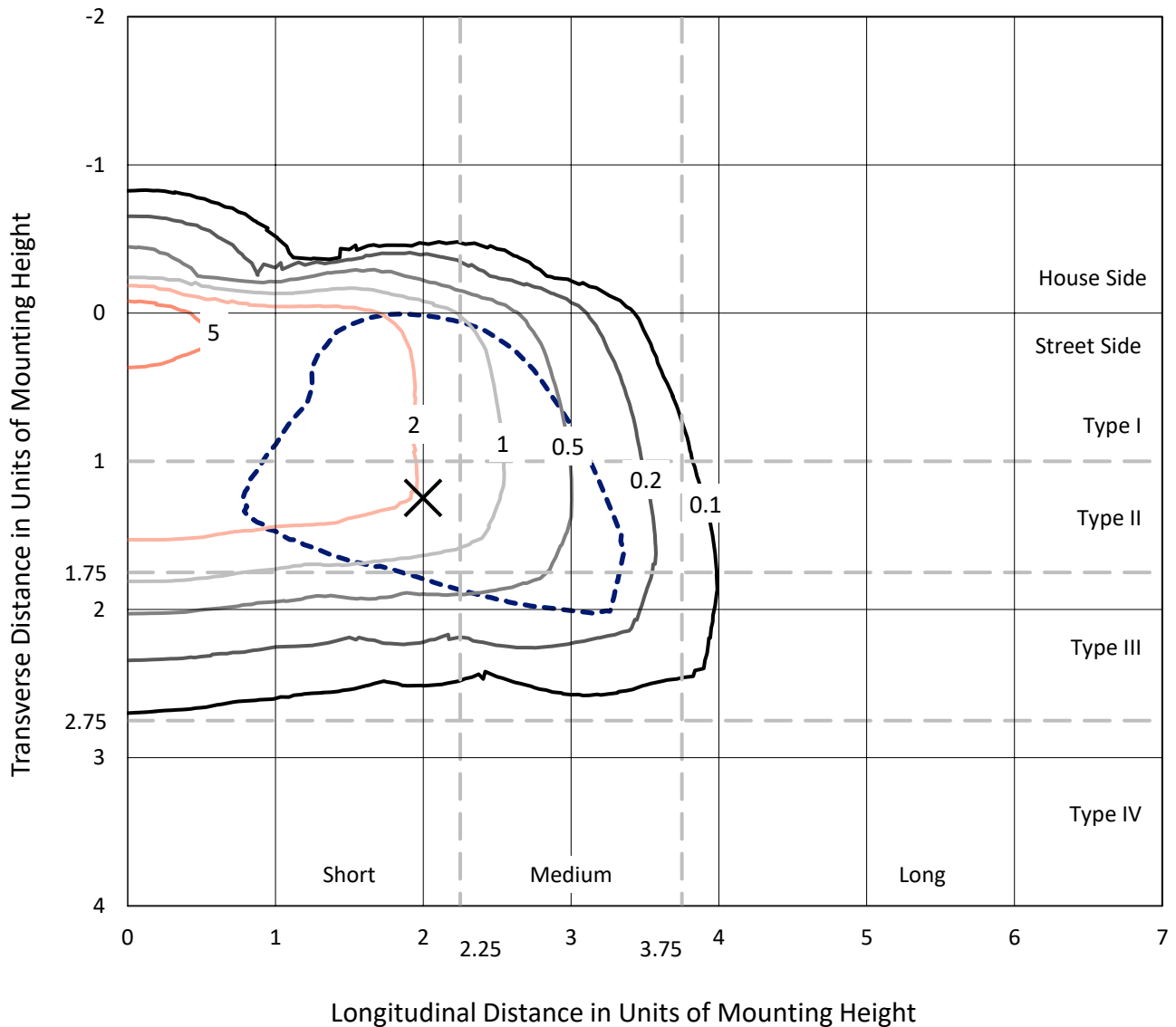
Lumens per Lamp: N/A  
Luminaire Lumens: 12158.8 lumens  
Efficiency: N/A  
Efficacy: 112.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G2

Input Watts (W): 108.2  
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

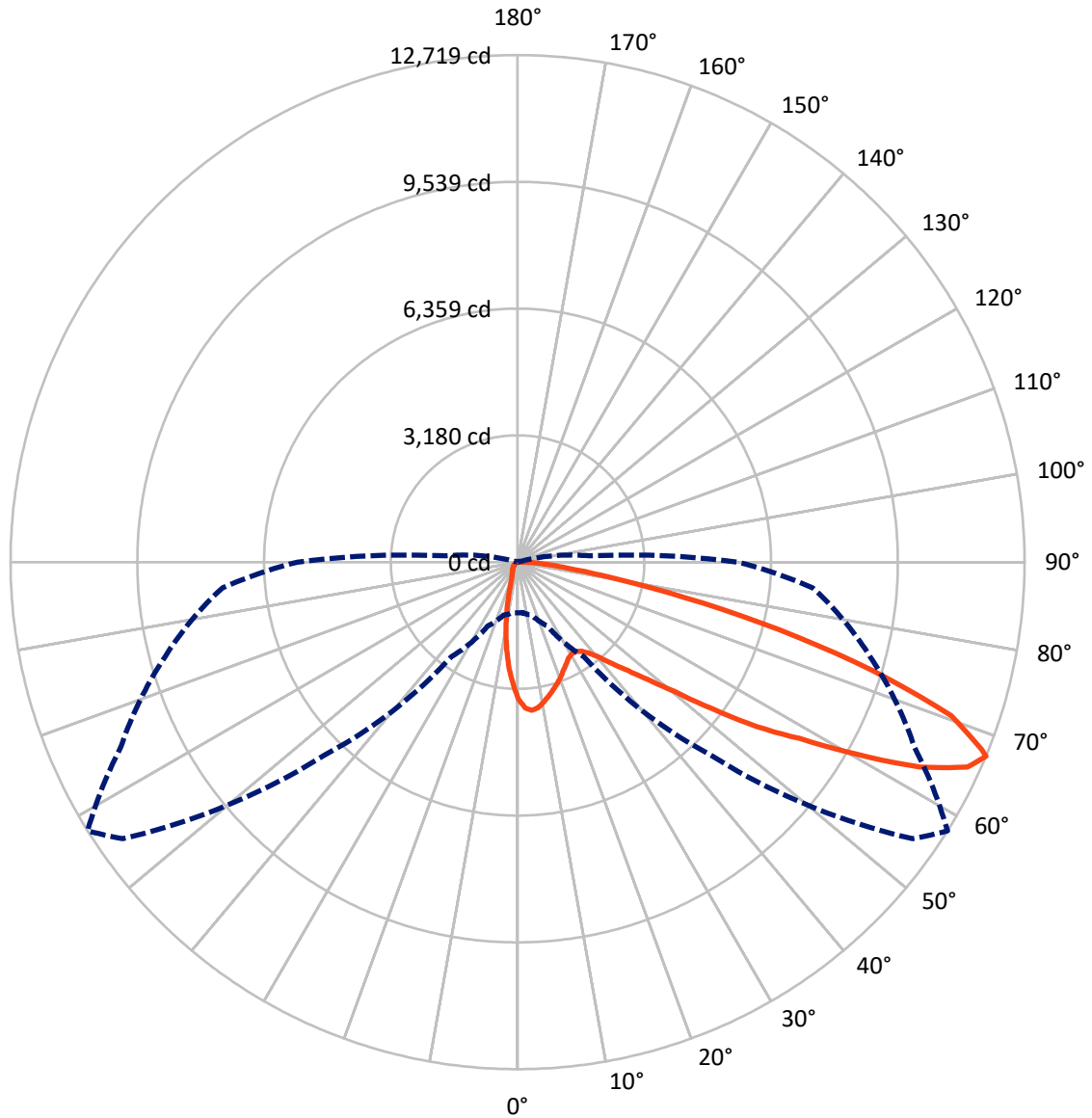
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 8.6 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral      - - - Horizontal Cone Through 67-Deg Vertical

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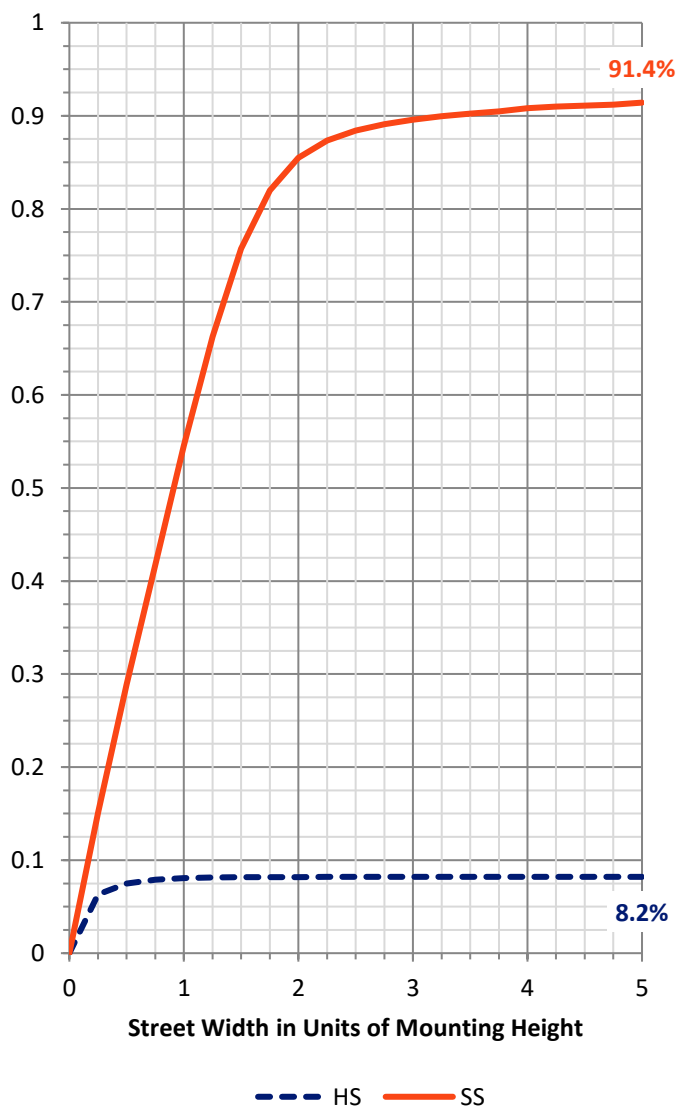
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1005.0	0.0	1005.0
	% Fixture	8.3	0.0	8.3
<b>Street Side</b>	Lumens	11153.8	0.0	11153.8
	% Fixture	91.7	0.0	91.7
<b>Total</b>	Lumens	12158.8	0.0	12158.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	273.3	2.2
10°-20°	566.9	4.7
20°-30°	752.2	6.2
30°-40°	1042.3	8.6
40°-50°	1700.7	14.0
50°-60°	2989.3	24.6
60°-70°	3310.9	27.2
70°-80°	1372.0	11.3
80°-90°	151.0	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°	12158.8	100.0
0°-180°	12158.8	100.0

**Coefficient of Utilization**



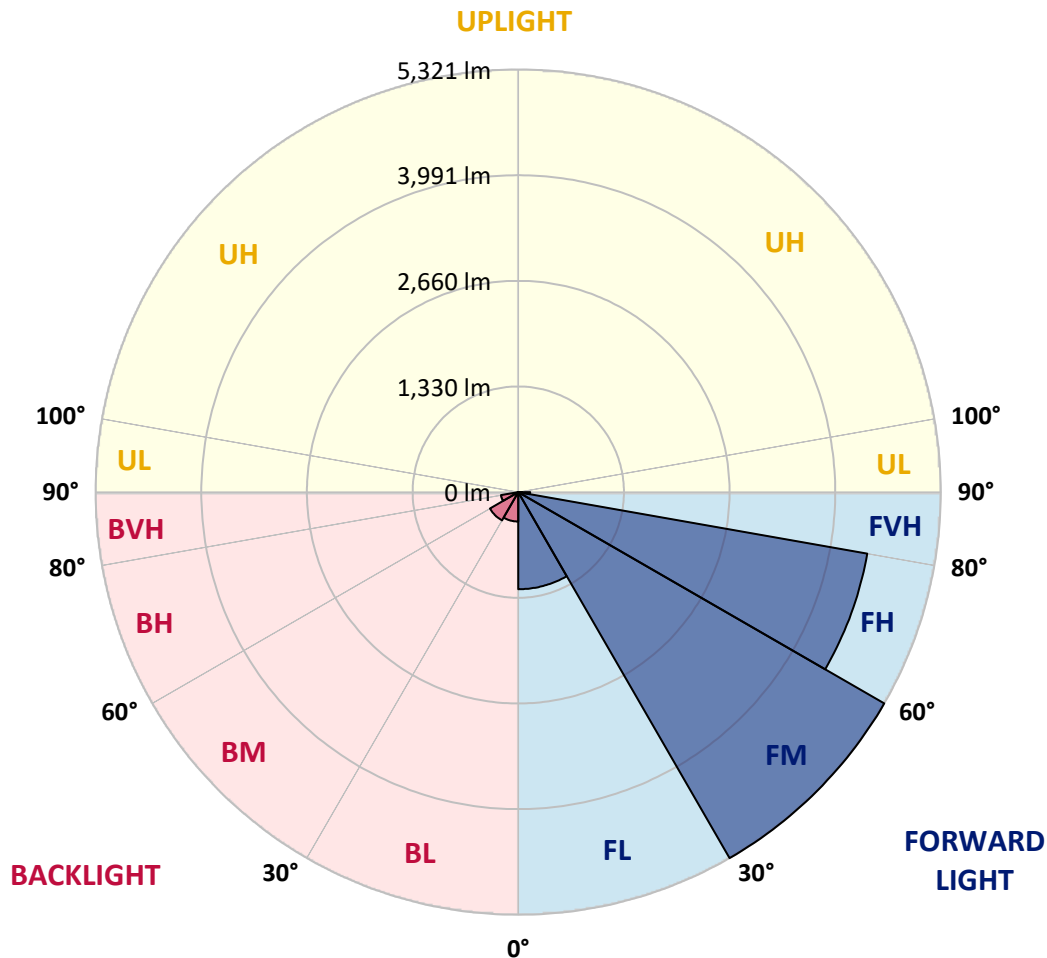
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1222.3	10.1			
FM (30°-60°)	5320.9	43.8			
FH (60°-80°)	4462.0	36.7			G2/5000
FVH (80°-90°)	148.6	1.2			G2/225
BL (0°-30°)	370.1	3.0	B1/500		
BM (30°-60°)	411.4	3.4	B1/1000		
BH (60°-80°)	221.0	1.8	B1/500		G1/500
BVH (80°-90°)	2.5	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G2**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	3444.8	3444.8	3444.8	3444.8	3444.8	3444.8	3444.8	3444.8	3444.8	3444.8	3444.8
2.5°	3748.2	3761.1	3772.4	3751.5	3769.2	3743.4	3677.2	3662.7	3651.4	3552.9	3496.4
5°	3746.6	3732.1	3743.4	3753.1	3728.9	3748.2	3732.1	3733.7	3690.1	3601.3	3443.1
7.5°	3496.4	3490.0	3496.4	3543.2	3596.5	3638.5	3662.7	3686.9	3657.8	3525.5	3372.1
10°	3159.0	3191.3	3209.1	3293.0	3375.3	3452.8	3528.7	3573.9	3565.8	3512.6	3294.6
12.5°	2923.4	2913.7	2978.2	3033.1	3115.5	3272.0	3404.4	3446.4	3494.8	3420.5	3192.9
15°	2705.4	2679.6	2718.4	2813.6	2954.0	3078.3	3264.0	3326.9	3388.3	3407.6	3138.1
17.5°	2497.2	2510.1	2550.5	2636.0	2768.4	2942.7	3117.1	3207.5	3354.4	3328.5	3055.7
20°	2397.1	2424.6	2439.1	2482.7	2574.7	2749.0	3008.9	3081.6	3238.1	3326.9	2975.0
22.5°	2402.0	2402.0	2368.1	2393.9	2477.8	2613.4	2862.0	2942.7	3191.3	3243.0	2902.4
25°	2453.6	2421.3	2423.0	2392.3	2427.8	2502.0	2729.7	2828.1	3096.1	3251.0	2863.6
27.5°	2492.4	2485.9	2476.2	2468.1	2423.0	2434.3	2642.5	2723.2	3059.0	3241.4	2803.9
30°	2632.8	2603.7	2594.1	2576.3	2516.6	2461.7	2573.1	2674.8	3029.9	3264.0	2770.0
32.5°	2750.6	2755.5	2763.6	2711.9	2660.2	2524.6	2592.4	2673.2	3008.9	3315.6	2803.9
35°	2899.1	2920.1	2923.4	2907.2	2852.3	2718.4	2673.2	2742.6	3044.4	3407.6	2807.1
37.5°	3125.1	3102.5	3163.9	3170.3	3131.6	2954.0	2860.4	2887.8	3149.4	3554.5	2929.8
40°	3272.0	3299.5	3414.1	3485.1	3418.9	3257.5	3131.6	3126.8	3301.1	3785.4	3081.6
42.5°	3435.1	3496.4	3622.3	3775.7	3767.6	3617.5	3490.0	3469.0	3570.7	4119.5	3322.1
45°	3657.8	3712.7	3888.7	4119.5	4245.4	4117.9	3925.8	3883.8	3898.4	4574.7	3732.1
47.5°	4027.5	4013.0	4266.4	4494.0	4700.6	4602.2	4519.8	4397.1	4385.8	5110.6	4298.7
50°	4445.6	4442.3	4668.3	4926.6	5165.5	5357.6	5220.4	5086.4	5089.6	5838.6	4965.4
52.5°	4842.7	4905.6	5149.4	5406.0	5816.0	6022.7	6155.0	6101.8	5845.1	6489.2	5678.8
55°	5052.5	5107.4	5349.5	5791.8	6439.1	6970.2	7328.6	7283.4	6787.8	7222.0	6382.6
57.5°	4854.0	4891.1	5218.8	5798.3	6875.0	8059.8	8403.7	8347.2	7762.8	7782.2	7233.3
60°	4022.6	4080.8	4568.3	5247.8	6705.5	8899.2	9883.9	9798.3	8650.6	8490.8	7780.6
62.5°	2786.2	2824.9	3225.2	4071.1	5901.6	9191.4	11281.8	11328.6	9586.9	9042.9	7943.6
65°	1804.7	1801.5	2030.7	2603.7	4182.5	8306.8	12108.3	12398.9	10490.8	9126.8	7893.6
67°	1275.2	1270.4	1378.5	1766.0	2895.9	6844.3	12093.8	12718.5	10981.6	9151.0	7430.3
67.5°	1176.8	1171.9	1275.2	1623.9	2613.4	6364.9	11913.0	12553.8	11154.3	9117.1	7226.9
70°	913.7	900.7	939.5	1118.7	1522.2	4116.3	10195.4	11532.0	10795.9	8271.3	5770.9
72.5°	660.2	674.7	736.1	918.5	1194.5	2214.7	7770.9	9325.4	9017.1	6234.1	3667.5
75°	460.1	473.0	571.4	749.0	1096.1	1343.0	5254.3	6763.6	6280.9	3441.5	1562.6
77.5°	240.5	256.7	364.8	598.9	996.0	1039.6	3139.7	4289.0	3328.5	1225.2	431.0
80°	111.4	119.5	182.4	424.5	832.9	913.7	1830.5	2385.8	1331.7	274.4	148.5
82.5°	48.4	53.3	83.9	243.7	590.8	799.0	1133.2	1251.0	482.7	88.8	92.0
85°	9.7	11.3	32.3	129.1	285.7	484.3	795.8	742.5	242.1	43.6	72.6
87.5°	0.0	0.0	8.1	37.1	77.5	143.7	337.4	337.4	74.3	22.6	27.4
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°	3444.8	3444.8	3444.8	3444.8	3444.8	3444.8	3444.8	3444.8	3444.8	3444.8	3444.8
2.5°	3446.4	3388.3	3260.7	3142.9	3059.0	2963.7	2837.8	2781.3	2760.3	2731.3	2687.7
5°	3356.0	3284.9	3067.0	2847.5	2607.0	2424.6	2230.9	2117.9	2032.3	1979.0	1961.3
7.5°	3228.4	3083.2	2789.4	2437.5	2125.9	1854.7	1561.0	1362.4	1234.9	1183.2	1134.8
10°	3126.8	2937.9	2490.7	2053.3	1638.4	1241.3	910.4	736.1	603.7	553.7	547.2
12.5°	2994.4	2768.4	2211.5	1661.0	1139.6	739.3	503.6	437.5	400.3	393.9	389.0
15°	2884.6	2615.0	1946.8	1286.5	737.7	461.7	392.3	376.1	366.4	363.2	364.8
17.5°	2810.4	2450.4	1675.6	936.3	485.9	377.7	361.6	351.9	347.1	345.4	340.6
20°	2663.5	2311.6	1407.6	655.4	379.3	348.7	335.8	327.7	322.8	321.2	319.6
22.5°	2579.5	2135.6	1139.6	456.8	337.4	316.4	306.7	300.2	292.2	287.3	285.7
25°	2495.6	2006.5	900.7	355.1	306.7	292.2	277.6	269.6	256.7	250.2	248.6
27.5°	2397.1	1879.0	694.1	308.3	276.0	261.5	247.0	234.1	217.9	211.5	208.2
30°	2340.6	1754.7	523.0	276.0	253.4	234.1	216.3	200.2	182.4	171.1	167.9
32.5°	2311.6	1641.7	392.3	251.8	229.2	208.2	185.6	166.3	150.1	140.4	138.8
35°	2276.1	1531.9	308.3	229.2	206.6	184.0	161.4	142.1	125.9	117.8	114.6
37.5°	2313.2	1467.3	256.7	211.5	188.9	163.0	138.8	119.5	106.5	98.5	96.9
40°	2414.9	1414.1	222.8	195.3	171.1	143.7	121.1	101.7	90.4	83.9	80.7
42.5°	2571.5	1414.1	201.8	179.2	155.0	125.9	103.3	88.8	77.5	71.0	69.4
45°	2855.6	1457.6	184.0	163.0	135.6	108.2	88.8	74.3	63.0	56.5	54.9
47.5°	3254.3	1557.7	169.5	148.5	121.1	95.2	77.5	63.0	51.7	45.2	43.6
50°	3790.2	1785.3	155.0	130.8	108.2	82.3	64.6	50.0	40.4	33.9	32.3
52.5°	4458.5	2108.2	140.4	121.1	92.0	69.4	51.7	40.4	30.7	25.8	24.2
55°	5165.5	2503.7	122.7	108.2	79.1	58.1	42.0	30.7	22.6	19.4	17.8
57.5°	5877.4	2808.8	108.2	93.6	64.6	46.8	33.9	24.2	16.1	12.9	11.3
60°	6255.1	2837.8	93.6	77.5	51.7	37.1	25.8	17.8	11.3	8.1	6.5
62.5°	6313.2	2579.5	80.7	63.0	42.0	29.1	17.8	12.9	6.5	3.2	3.2
65°	6014.6	2150.1	69.4	50.0	32.3	21.0	12.9	8.1	3.2	1.6	0.0
67°	5530.3	1801.5	59.7	42.0	25.8	16.1	9.7	4.8	1.6	0.0	0.0
67.5°	5343.1	1704.6	56.5	38.7	24.2	14.5	8.1	4.8	1.6	0.0	0.0
70°	4146.9	1217.1	42.0	27.4	17.8	11.3	6.5	3.2	0.0	0.0	0.0
72.5°	2540.8	711.9	32.3	19.4	12.9	8.1	4.8	1.6	0.0	0.0	0.0
75°	1065.4	245.4	27.4	14.5	9.7	4.8	3.2	1.6	0.0	0.0	0.0
77.5°	277.6	92.0	19.4	9.7	6.5	4.8	3.2	1.6	0.0	0.0	0.0
80°	113.0	42.0	12.9	6.5	6.5	4.8	3.2	1.6	0.0	0.0	0.0
82.5°	74.3	19.4	8.1	6.5	4.8	3.2	1.6	0.0	0.0	0.0	0.0
85°	56.5	11.3	4.8	4.8	3.2	1.6	0.0	0.0	0.0	0.0	0.0
87.5°	24.2	6.5	4.8	3.2	3.2	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)