

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: P480142

Luminaire Tested: **IFLD-S-SA2C-750-U-SL2**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P480142  
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-SL2  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL2 distribution lens  
Light Source: (32) 5000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

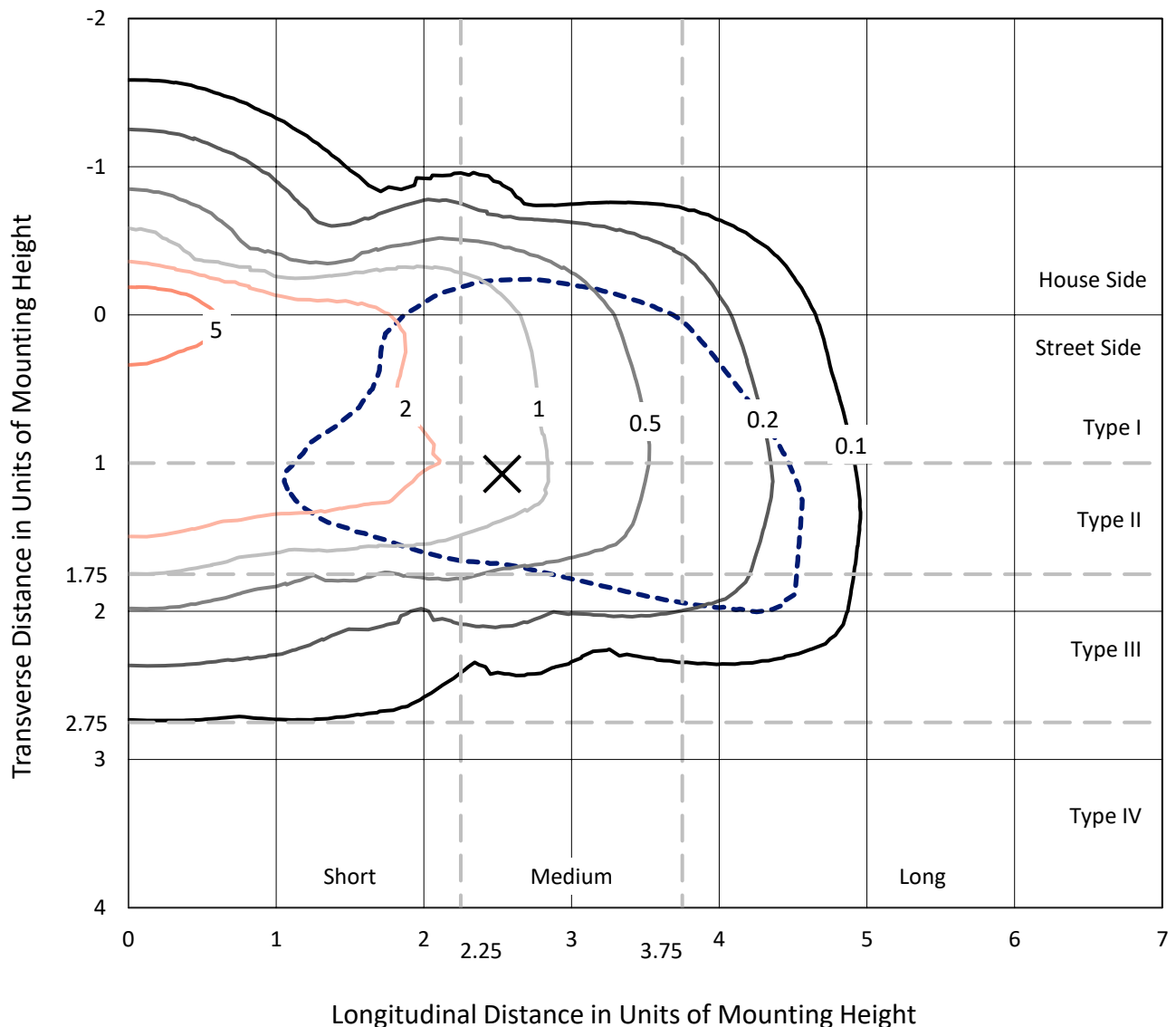
Lumens per Lamp: N/A  
Luminaire Lumens: 14496.1 lumens  
Efficiency: N/A  
Efficacy: 134.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B3 - U0 - G3

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

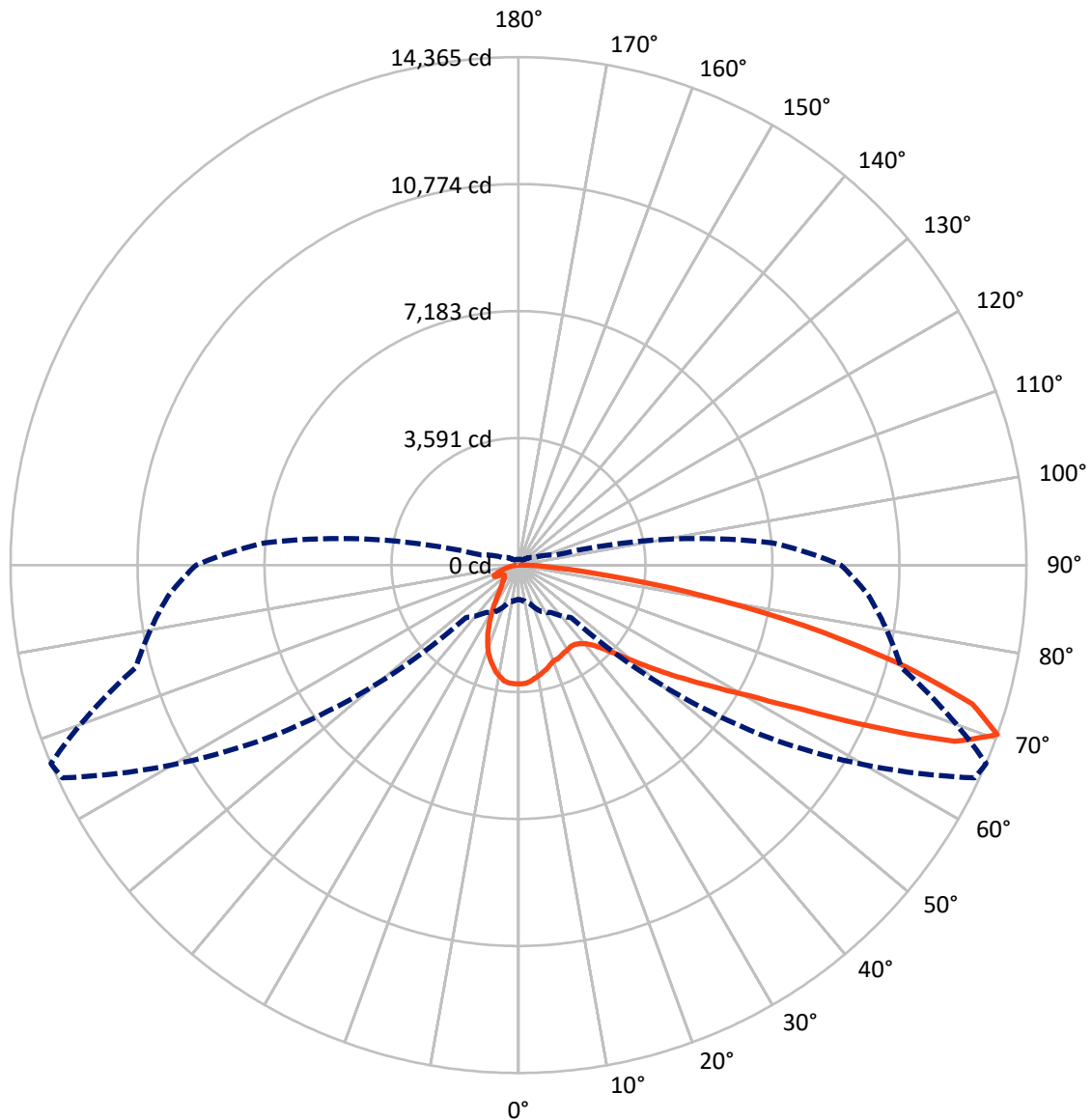
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 8.5 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

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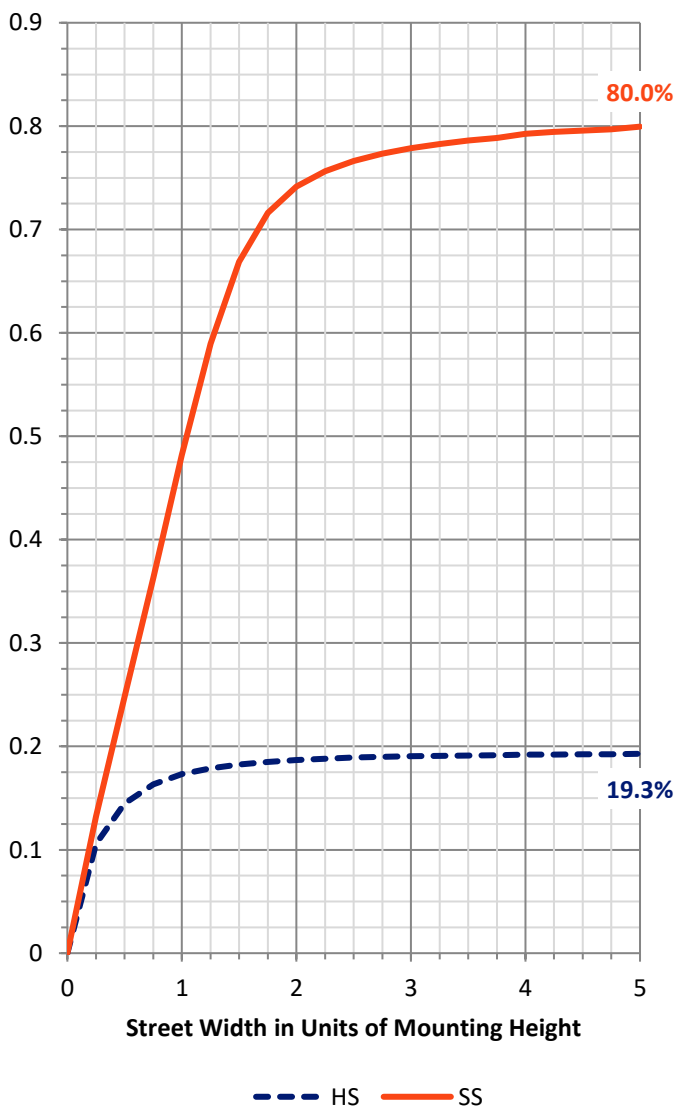
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2823.3	0.0	2823.3
	% Fixture	19.5	0.0	19.5
<b>Street Side</b>	Lumens	11672.9	0.0	11672.9
	% Fixture	80.5	0.0	80.5
<b>Total</b>	Lumens	14496.1	0.0	14496.1
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	292.8	2.0
10°-20°	701.2	4.8
20°-30°	947.0	6.5
30°-40°	1267.2	8.7
40°-50°	1863.3	12.9
50°-60°	2904.4	20.0
60°-70°	3577.8	24.7
70°-80°	2528.0	17.4
80°-90°	414.4	2.9
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°	14496.1	100.0
0°-180°	14496.1	100.0

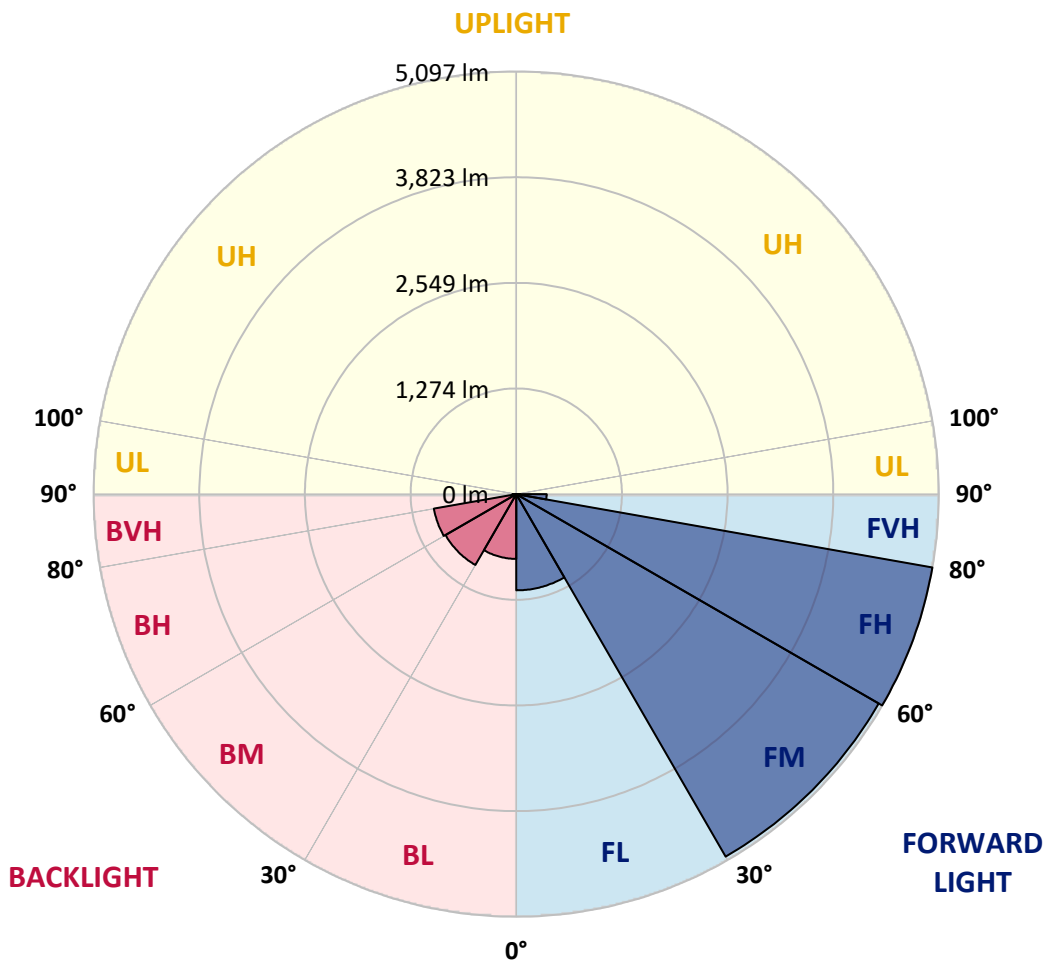


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1160.3	8.0			
FM (30°-60°)	5048.7	34.8			
FH (60°-80°)	5097.3	35.2			G3/7500
FVH (80°-90°)	366.6	2.5			G3/500
BL (0°-30°)	780.7	5.4	B2/1000		
BM (30°-60°)	986.2	6.8	B1/1000		
BH (60°-80°)	1008.5	7.0	B3/2500		G3/2500
BVH (80°-90°)	47.8	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G3**  
 Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	3355.8	3355.8	3355.8	3355.8	3355.8	3355.8	3355.8	3355.8	3355.8	3355.8	3355.8
2.5°	3124.7	3160.0	3172.8	3192.1	3241.9	3278.8	3301.2	3326.9	3357.4	3383.1	3399.1
5°	2906.4	2925.7	2956.2	2977.1	3039.6	3139.1	3206.6	3315.7	3312.5	3352.6	3413.6
7.5°	2694.6	2713.9	2728.3	2770.0	2859.9	2949.8	3073.3	3249.9	3237.0	3330.1	3424.8
10°	2563.0	2548.5	2553.4	2624.0	2694.6	2795.7	2951.4	3131.1	3177.7	3322.1	3456.9
12.5°	2439.4	2423.4	2461.9	2506.8	2593.5	2685.0	2871.1	3033.2	3103.8	3293.2	3471.4
15°	2362.4	2351.1	2399.3	2418.6	2521.3	2630.4	2762.0	2959.4	3036.4	3257.9	3448.9
17.5°	2319.1	2328.7	2346.3	2388.1	2453.9	2546.9	2691.4	2909.6	2943.3	3214.6	3444.1
20°	2327.1	2338.3	2339.9	2357.6	2402.5	2474.7	2622.4	2856.7	2879.2	3206.6	3456.9
22.5°	2391.3	2375.2	2381.6	2370.4	2383.2	2439.4	2569.4	2786.1	2872.7	3139.1	3429.6
25°	2487.6	2465.1	2461.9	2423.4	2399.3	2415.3	2559.8	2768.4	2824.6	3118.3	3428.0
27.5°	2657.7	2624.0	2624.0	2566.2	2468.3	2442.6	2532.5	2739.5	2789.3	3099.0	3391.1
30°	2821.4	2821.4	2823.0	2741.1	2632.0	2505.2	2543.7	2728.3	2760.4	3041.2	3341.4
32.5°	3020.4	3015.6	3007.5	2967.4	2798.9	2609.5	2598.3	2713.9	2729.9	3022.0	3326.9
35°	3214.6	3201.7	3264.3	3229.0	3057.3	2813.4	2654.5	2720.3	2755.6	2993.1	3282.0
37.5°	3360.6	3368.6	3498.6	3521.1	3373.5	3044.5	2813.4	2784.5	2818.2	3034.8	3282.0
40°	3550.0	3582.1	3704.1	3779.5	3689.6	3349.4	3065.3	2892.0	2916.1	3127.9	3352.6
42.5°	3798.8	3826.0	3981.7	4079.6	4053.9	3737.8	3314.1	3116.7	3097.4	3283.6	3458.5
45°	4127.8	4132.6	4289.8	4424.7	4477.6	4143.8	3708.9	3400.7	3384.7	3551.6	3652.7
47.5°	4519.3	4514.5	4612.4	4756.9	4899.7	4628.5	4163.1	3832.5	3774.7	3935.2	3975.3
50°	4898.1	4877.2	4899.7	5084.3	5358.7	5235.1	4715.1	4360.5	4302.7	4391.0	4460.0
52.5°	5106.7	5132.4	5071.4	5315.4	5846.6	5952.5	5447.0	4991.2	4941.4	4984.8	5105.1
55°	4960.7	5013.6	4973.5	5204.6	6060.0	6827.2	6393.8	5721.4	5657.2	5641.2	5838.6
57.5°	4339.6	4435.9	4443.9	4809.8	5986.2	7504.4	7725.9	6583.2	6486.9	6323.2	6527.0
60°	3331.7	3428.0	3501.8	3935.2	5353.9	7908.8	9269.8	7809.3	7491.6	7067.9	7189.9
62.5°	2335.1	2400.9	2474.7	2741.1	4127.8	7671.3	10605.0	9536.2	8950.4	7852.7	8005.1
65°	1701.2	1752.5	1828.0	1985.2	2535.7	6347.3	11224.5	11587.2	11031.9	8850.9	8831.7
67.5°	1280.7	1312.8	1412.3	1664.3	1757.3	3920.7	10582.6	13753.8	13304.5	9959.9	9496.1
70°	969.3	996.6	1089.7	1434.8	1641.8	2102.4	8348.6	14236.9	14365.3	11203.7	9942.2
72.5°	667.6	698.1	802.4	1195.6	1563.2	1667.5	5239.9	12933.7	13420.0	11715.6	9464.0
75°	409.2	430.1	491.1	906.8	1551.9	1630.6	2884.0	10598.6	11113.8	10824.9	8279.6
77.5°	288.9	287.3	298.5	531.2	1344.9	1640.2	1778.2	7766.0	8266.7	7977.9	5618.7
80°	210.2	211.8	223.1	317.8	913.2	1667.5	1401.1	5201.4	5350.7	4159.8	2216.3
82.5°	126.8	133.2	160.5	215.1	548.9	1505.4	1295.1	2890.4	2704.2	1335.3	609.9
85°	67.4	67.4	94.7	136.4	292.1	1123.4	1247.0	1375.4	1152.3	414.1	226.3
87.5°	16.0	16.0	27.3	54.6	117.2	537.6	850.6	547.3	438.1	139.6	93.1
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°	3355.8	3355.8	3355.8	3355.8	3355.8	3355.8	3355.8	3355.8	3355.8	3355.8	3355.8
2.5°	3392.7	3373.5	3397.5	3349.4	3310.9	3312.5	3253.1	3249.9	3241.9	3200.1	3214.6
5°	3431.2	3415.2	3387.9	3334.9	3249.9	3164.8	3113.5	3047.7	3020.4	3005.9	3012.4
7.5°	3468.1	3439.3	3360.6	3286.8	3155.2	2994.7	2901.6	2813.4	2701.0	2688.2	2665.7
10°	3477.8	3416.8	3315.7	3158.4	2983.5	2805.3	2593.5	2429.8	2343.1	2275.7	2250.0
12.5°	3463.3	3437.7	3243.5	3041.2	2776.4	2497.2	2250.0	2018.9	1858.5	1775.0	1752.5
15°	3461.7	3416.8	3163.2	2863.1	2524.5	2160.2	1808.7	1531.1	1362.5	1293.5	1293.5
17.5°	3463.3	3355.8	3068.5	2683.4	2227.6	1734.9	1348.1	1120.2	1027.1	1017.5	1025.5
20°	3431.2	3310.9	2969.0	2471.5	1855.2	1303.2	979.0	885.9	885.9	898.7	903.5
22.5°	3402.3	3243.5	2811.7	2209.9	1476.5	943.7	796.0	768.7	799.2	821.7	831.3
25°	3362.2	3187.3	2651.3	1938.7	1123.4	760.7	691.7	698.1	727.0	767.1	763.9
27.5°	3304.4	3089.4	2460.3	1624.1	836.1	656.4	638.7	642.0	672.4	690.1	686.9
30°	3238.6	2989.9	2283.7	1311.2	662.8	601.8	600.2	608.2	613.1	622.7	621.1
32.5°	3155.2	2858.3	2096.0	1019.1	597.0	571.3	564.9	560.1	564.9	563.3	558.5
35°	3095.8	2787.7	1905.0	776.8	560.1	544.1	539.2	531.2	524.8	515.2	513.6
37.5°	3079.8	2717.1	1704.4	633.9	531.2	523.2	507.1	492.7	484.7	479.9	476.6
40°	3070.1	2670.5	1508.6	556.9	507.1	499.1	479.9	460.6	452.6	447.8	449.4
42.5°	3103.8	2644.8	1309.6	518.4	486.3	471.8	451.0	428.5	426.9	423.7	428.5
45°	3222.6	2676.9	1125.0	491.1	465.4	441.3	414.1	402.8	401.2	398.0	401.2
47.5°	3492.2	2757.2	967.7	473.4	442.9	422.1	393.2	377.1	375.5	373.9	373.9
50°	3864.6	3004.3	836.1	452.6	428.5	399.6	372.3	354.7	351.5	345.0	345.0
52.5°	4448.7	3420.0	757.5	441.3	402.8	378.8	349.9	330.6	322.6	316.2	316.2
55°	5106.7	3935.2	743.1	422.1	375.5	353.1	327.4	308.1	300.1	292.1	288.9
57.5°	5856.2	4617.2	845.8	409.2	356.3	327.4	298.5	280.9	274.4	266.4	263.2
60°	6554.3	5297.7	1165.1	390.0	338.6	303.3	274.4	256.8	248.8	240.7	240.7
62.5°	7361.6	6140.3	1706.0	390.0	322.6	277.6	248.8	235.9	231.1	223.1	221.5
65°	8316.5	7011.7	2100.8	414.1	317.8	255.2	224.7	211.8	207.0	202.2	200.6
67.5°	9043.5	7512.4	1807.1	478.3	338.6	235.9	200.6	192.6	189.4	184.6	181.4
70°	9120.5	7207.5	1089.7	516.8	359.5	216.7	179.7	171.7	171.7	166.9	163.7
72.5°	8428.8	6395.4	733.4	460.6	325.8	194.2	158.9	152.5	149.3	146.0	144.4
75°	7053.4	5424.5	579.4	367.5	250.4	160.5	138.0	131.6	126.8	125.2	122.0
77.5°	4737.6	3525.9	428.5	287.3	184.6	130.0	115.6	109.1	104.3	102.7	97.9
80°	1819.9	1343.3	276.0	208.6	130.0	102.7	91.5	85.1	81.8	77.0	73.8
82.5°	536.0	434.9	154.1	128.4	83.5	70.6	65.8	61.0	56.2	51.4	49.8
85°	221.5	199.0	94.7	67.4	51.4	41.7	38.5	33.7	28.9	25.7	22.5
87.5°	102.7	85.1	43.3	25.7	17.7	9.6	4.8	1.6	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)