

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: P480025

Luminaire Tested: **IFLD-S-SA2C-730-U-SL2**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P480025  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA2C-730-U-SL2  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL2 distribution lens  
Light Source: (32) 3000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

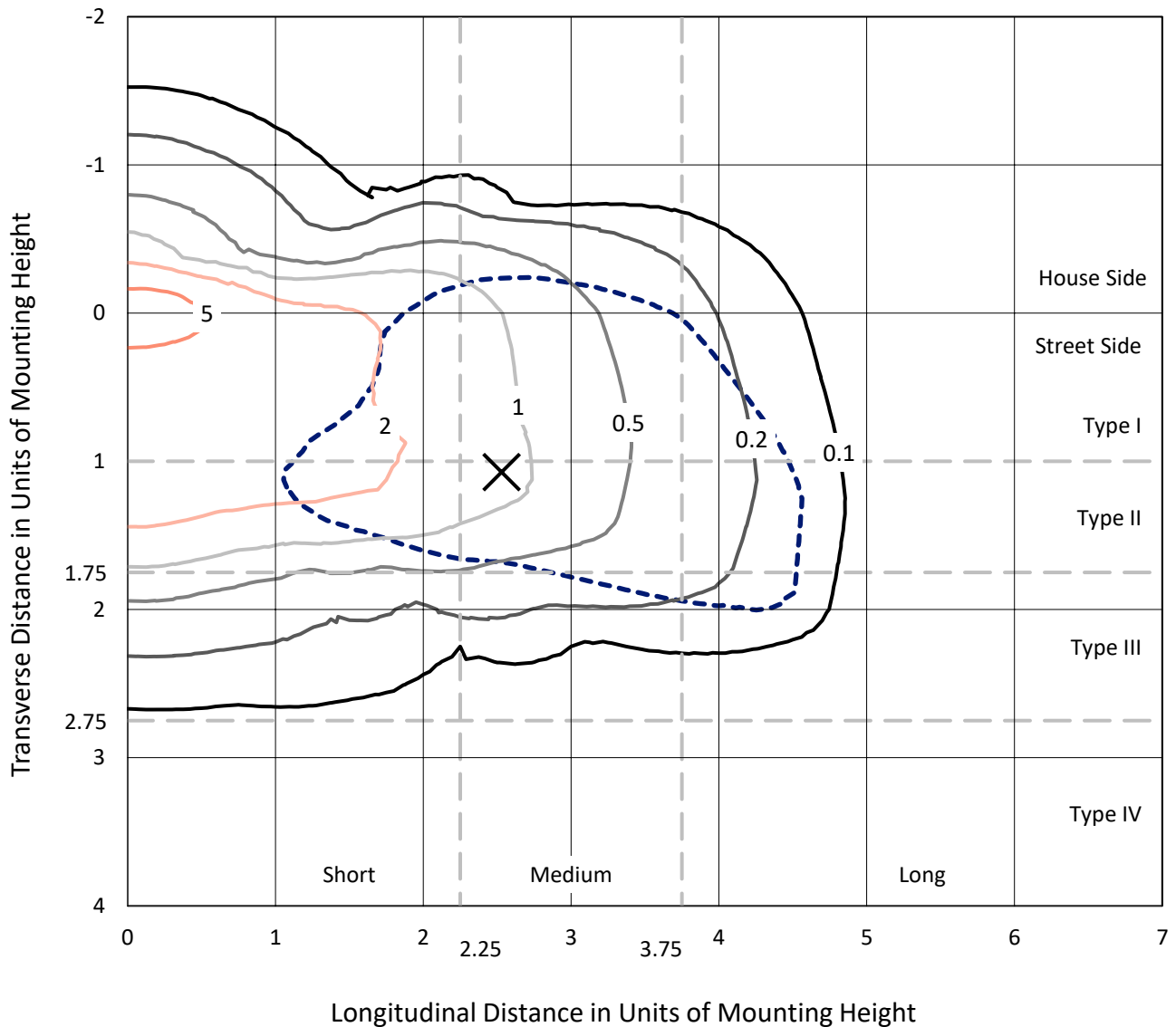
Lumens per Lamp: N/A  
Luminaire Lumens: 12904.7 lumens  
Efficiency: N/A  
Efficacy: 119.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B2 - U0 - G3

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

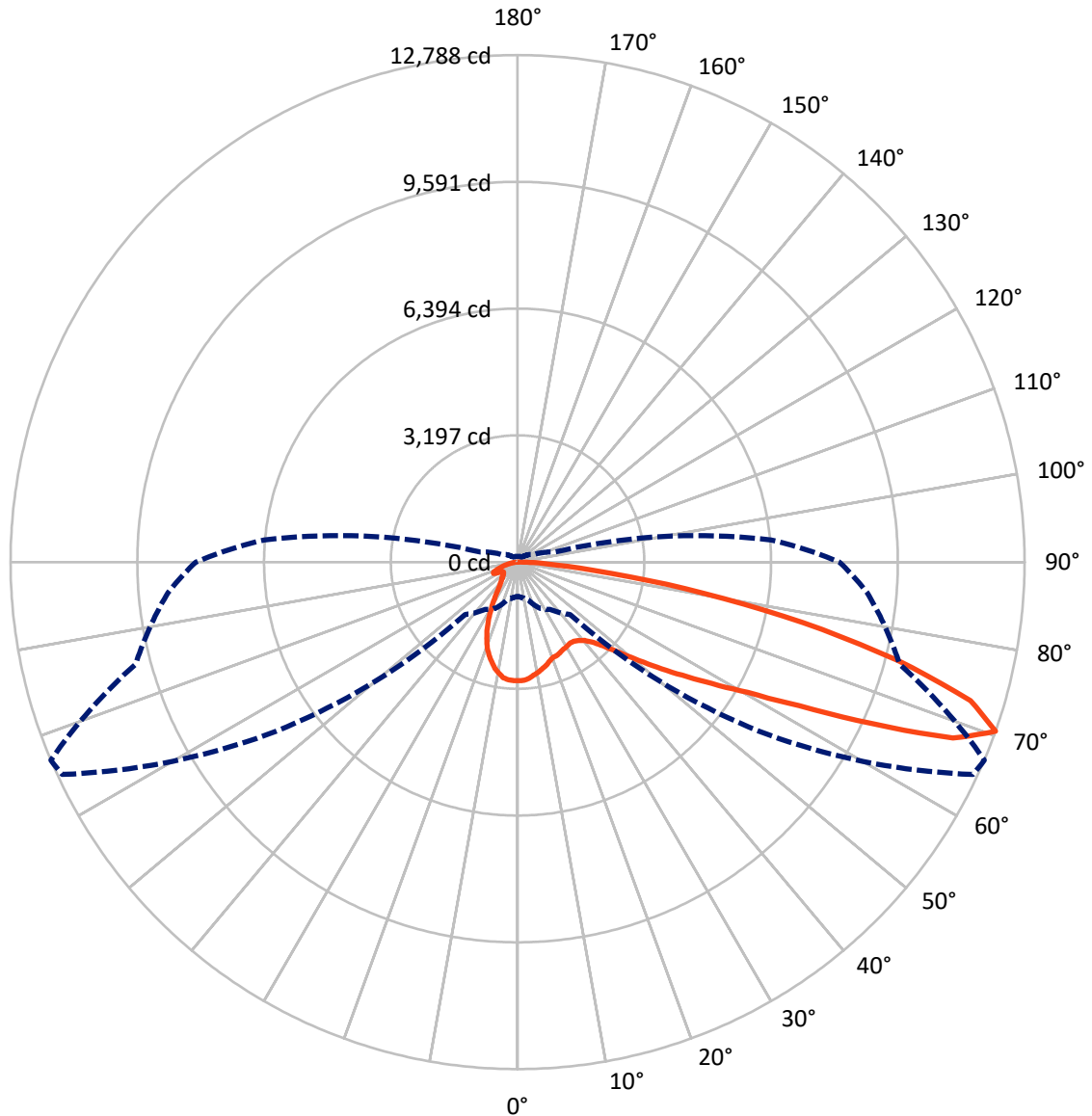
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 7.5 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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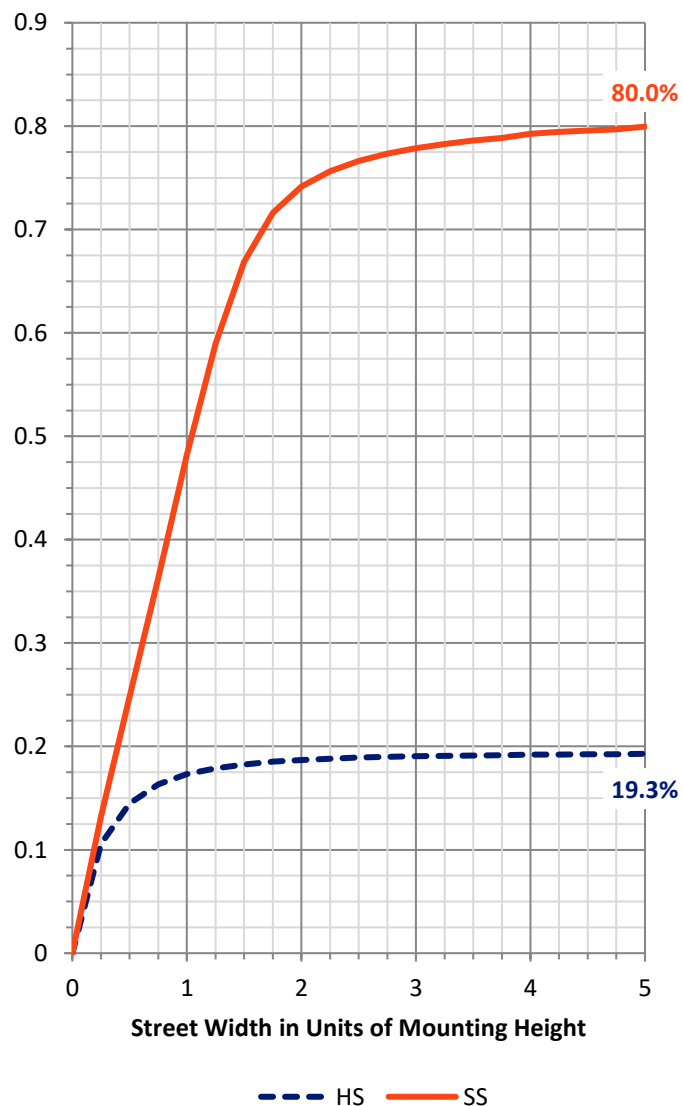
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2513.3	0.0	2513.3
	% Fixture	19.5	0.0	19.5
<b>Street Side</b>	Lumens	10391.3	0.0	10391.3
	% Fixture	80.5	0.0	80.5
<b>Total</b>	Lumens	12904.7	0.0	12904.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	260.7	2.0
10°-20°	624.3	4.8
20°-30°	843.0	6.5
30°-40°	1128.0	8.7
40°-50°	1658.8	12.9
50°-60°	2585.6	20.0
60°-70°	3185.0	24.7
70°-80°	2250.5	17.4
80°-90°	368.9	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°	12904.7	100.0
0°-180°	12904.7	100.0

**Coefficient of Utilization**

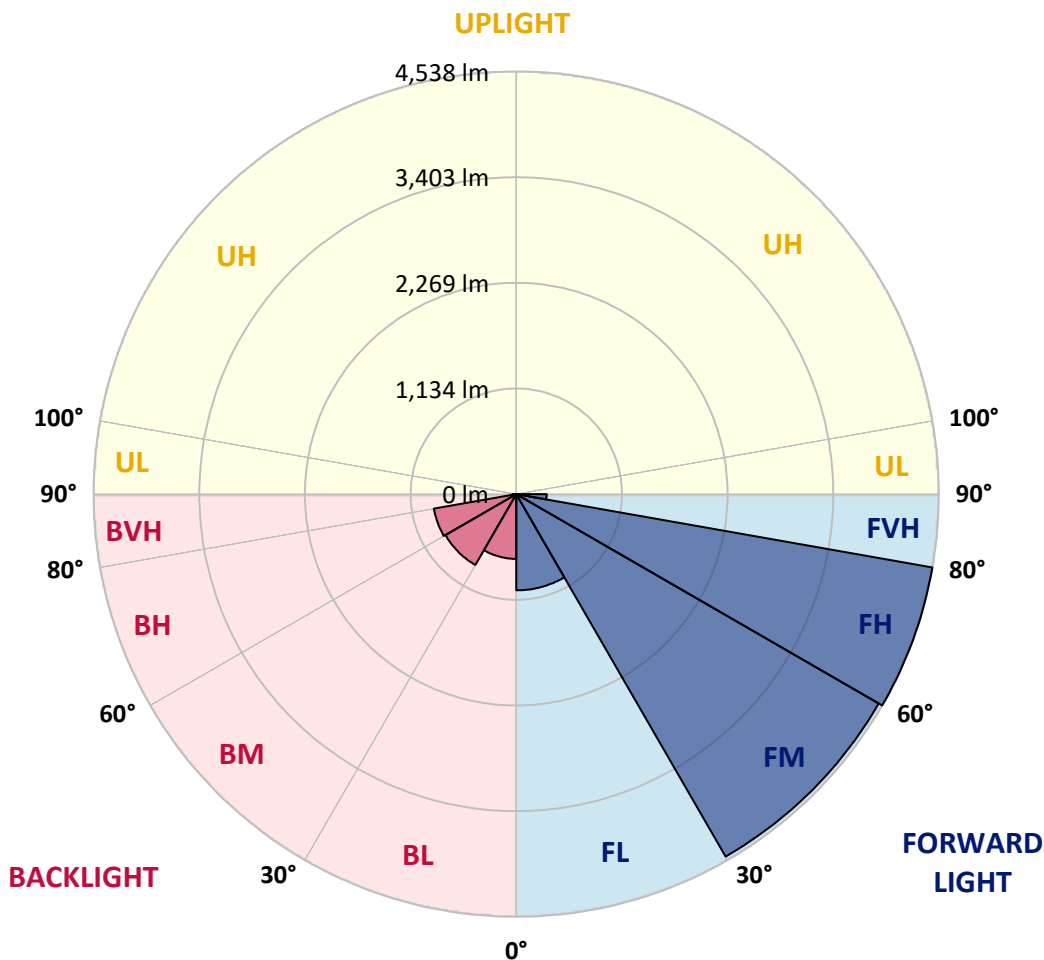


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1032.9	8.0			
FM (30°-60°)	4494.4	34.8			
FH (60°-80°)	4537.7	35.2			G2/5000
FVH (80°-90°)	326.3	2.5			G3/500
BL (0°-30°)	695.0	5.4	B2/1000		
BM (30°-60°)	878.0	6.8	B1/1000		
BH (60°-80°)	897.8	7.0	B2/1000		G2/1000
BVH (80°-90°)	42.6	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G3**  
 Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	2987.4	2987.4	2987.4	2987.4	2987.4	2987.4	2987.4	2987.4	2987.4	2987.4	2987.4
2.5°	2781.7	2813.1	2824.5	2841.7	2885.9	2918.8	2938.8	2961.7	2988.8	3011.7	3026.0
5°	2587.4	2604.5	2631.6	2650.2	2705.9	2794.5	2854.5	2951.7	2948.8	2984.5	3038.8
7.5°	2398.8	2415.9	2428.8	2465.9	2545.9	2625.9	2735.9	2893.1	2881.7	2964.5	3048.8
10°	2281.6	2268.8	2273.0	2335.9	2398.8	2488.8	2627.4	2787.4	2828.8	2957.4	3077.4
12.5°	2171.6	2157.3	2191.6	2231.6	2308.8	2390.2	2555.9	2700.2	2763.1	2931.7	3090.2
15°	2103.0	2093.0	2135.9	2153.0	2244.5	2341.6	2458.8	2634.5	2703.1	2900.2	3070.2
17.5°	2064.5	2073.0	2088.7	2125.9	2184.5	2267.3	2395.9	2590.2	2620.2	2861.7	3066.0
20°	2071.6	2081.6	2083.0	2098.7	2138.7	2203.0	2334.5	2543.1	2563.1	2854.5	3077.4
22.5°	2128.7	2114.5	2120.2	2110.2	2121.6	2171.6	2287.3	2480.2	2557.3	2794.5	3053.1
25°	2214.5	2194.5	2191.6	2157.3	2135.9	2150.2	2278.8	2464.5	2514.5	2775.9	3051.7
27.5°	2365.9	2335.9	2335.9	2284.5	2197.3	2174.5	2254.5	2438.8	2483.1	2758.8	3018.8
30°	2511.6	2511.6	2513.1	2440.2	2343.0	2230.2	2264.5	2428.8	2457.3	2707.4	2974.5
32.5°	2688.8	2684.5	2677.4	2641.6	2491.6	2323.0	2313.0	2415.9	2430.2	2690.2	2961.7
35°	2861.7	2850.2	2905.9	2874.5	2721.6	2504.5	2363.0	2421.6	2453.1	2664.5	2921.7
37.5°	2991.7	2998.8	3114.5	3134.5	3003.1	2710.2	2504.5	2478.8	2508.8	2701.6	2921.7
40°	3160.3	3188.8	3297.4	3364.6	3284.6	2981.7	2728.8	2574.5	2595.9	2784.5	2984.5
42.5°	3381.7	3406.0	3544.6	3631.7	3608.9	3327.4	2950.2	2774.5	2757.4	2923.1	3078.8
45°	3674.6	3678.9	3818.9	3938.9	3986.0	3688.9	3301.7	3027.4	3013.1	3161.7	3251.7
47.5°	4023.2	4018.9	4106.0	4234.6	4361.8	4120.3	3706.0	3411.7	3360.3	3503.1	3538.9
50°	4360.4	4341.8	4361.8	4526.1	4770.4	4660.4	4197.5	3881.7	3830.3	3908.9	3970.3
52.5°	4546.1	4568.9	4514.7	4731.8	5204.7	5299.0	4849.0	4443.2	4398.9	4437.5	4544.7
55°	4416.1	4463.2	4427.5	4633.2	5394.7	6077.6	5691.9	5093.3	5036.1	5021.8	5197.6
57.5°	3863.2	3948.9	3956.0	4281.8	5329.0	6680.5	6877.7	5860.5	5774.8	5629.0	5810.5
60°	2966.0	3051.7	3117.4	3503.1	4766.1	7040.6	8252.1	6952.0	6669.1	6291.9	6400.5
62.5°	2078.7	2137.3	2203.0	2440.2	3674.6	6829.1	9440.8	8489.3	7967.8	6990.6	7126.3
65°	1514.4	1560.1	1627.3	1767.3	2257.3	5650.5	9992.2	10315.1	9820.8	7879.2	7862.1
67.5°	1140.1	1168.7	1257.2	1481.5	1564.4	3490.3	9420.8	12243.8	11843.8	8866.4	8453.5
70°	862.9	887.2	970.1	1277.2	1461.5	1871.6	7432.0	12673.9	12788.2	9973.7	8850.7
72.5°	594.3	621.5	714.3	1064.4	1391.5	1484.4	4664.7	11513.8	11946.7	10429.4	8425.0
75°	364.3	382.9	437.2	807.2	1381.5	1451.5	2567.4	9435.0	9893.7	9636.5	7370.6
77.5°	257.2	255.7	265.7	472.9	1197.2	1460.1	1583.0	6913.4	7359.2	7102.0	5001.8
80°	187.2	188.6	198.6	282.9	812.9	1484.4	1247.2	4630.4	4763.2	3703.2	1973.0
82.5°	112.9	118.6	142.9	191.4	488.6	1340.1	1153.0	2573.1	2407.3	1188.7	542.9
85°	60.0	60.0	84.3	121.4	260.0	1000.1	1110.1	1224.4	1025.8	368.6	201.4
87.5°	14.3	14.3	24.3	48.6	104.3	478.6	757.2	487.2	390.0	124.3	82.9
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°	2987.4	2987.4	2987.4	2987.4	2987.4	2987.4	2987.4	2987.4	2987.4	2987.4	2987.4
2.5°	3020.2	3003.1	3024.5	2981.7	2947.4	2948.8	2895.9	2893.1	2885.9	2848.8	2861.7
5°	3054.5	3040.2	3016.0	2968.8	2893.1	2817.4	2771.7	2713.1	2688.8	2675.9	2681.6
7.5°	3087.4	3061.7	2991.7	2926.0	2808.8	2665.9	2583.1	2504.5	2404.5	2393.1	2373.0
10°	3096.0	3041.7	2951.7	2811.7	2655.9	2497.3	2308.8	2163.0	2085.9	2025.9	2003.0
12.5°	3083.1	3060.2	2887.4	2707.4	2471.6	2223.0	2003.0	1797.3	1654.4	1580.1	1560.1
15°	3081.7	3041.7	2815.9	2548.8	2247.3	1923.0	1610.1	1363.0	1213.0	1151.5	1151.5
17.5°	3083.1	2987.4	2731.6	2388.8	1983.0	1544.4	1200.1	997.2	914.4	905.8	912.9
20°	3054.5	2947.4	2643.1	2200.2	1651.6	1160.1	871.5	788.6	788.6	800.1	804.4
22.5°	3028.8	2887.4	2503.1	1967.3	1314.4	840.1	708.6	684.3	711.5	731.5	740.1
25°	2993.1	2837.4	2360.2	1725.9	1000.1	677.2	615.8	621.5	647.2	682.9	680.1
27.5°	2941.7	2750.2	2190.2	1445.8	744.3	584.3	568.6	571.5	598.6	614.3	611.5
30°	2883.1	2661.6	2033.0	1167.2	590.0	535.8	534.3	541.5	545.8	554.3	552.9
32.5°	2808.8	2544.5	1865.9	907.2	531.5	508.6	502.9	498.6	502.9	501.5	497.2
35°	2755.9	2481.6	1695.9	691.5	498.6	484.3	480.0	472.9	467.2	458.6	457.2
37.5°	2741.6	2418.8	1517.3	564.3	472.9	465.8	451.5	438.6	431.5	427.2	424.3
40°	2733.1	2377.3	1343.0	495.8	451.5	444.3	427.2	410.0	402.9	398.6	400.0
42.5°	2763.1	2354.5	1165.8	461.5	432.9	420.0	401.5	381.5	380.0	377.2	381.5
45°	2868.8	2383.0	1001.5	437.2	414.3	392.9	368.6	358.6	357.2	354.3	357.2
47.5°	3108.8	2454.5	861.5	421.5	394.3	375.7	350.0	335.7	334.3	332.9	332.9
50°	3440.3	2674.5	744.3	402.9	381.5	355.7	331.5	315.7	312.9	307.2	307.2
52.5°	3960.3	3044.5	674.3	392.9	358.6	337.2	311.5	294.3	287.2	281.5	281.5
55°	4546.1	3503.1	661.5	375.7	334.3	314.3	291.5	274.3	267.2	260.0	257.2
57.5°	5213.3	4110.3	752.9	364.3	317.2	291.5	265.7	250.0	244.3	237.2	234.3
60°	5834.8	4716.1	1037.2	347.2	301.5	270.0	244.3	228.6	221.4	214.3	214.3
62.5°	6553.4	5466.2	1518.7	347.2	287.2	247.2	221.4	210.0	205.7	198.6	197.2
65°	7403.5	6241.9	1870.2	368.6	282.9	227.2	200.0	188.6	184.3	180.0	178.6
67.5°	8050.6	6687.7	1608.7	425.7	301.5	210.0	178.6	171.4	168.6	164.3	161.4
70°	8119.2	6416.2	970.1	460.0	320.0	192.9	160.0	152.9	152.9	148.6	145.7
72.5°	7503.5	5693.3	652.9	410.0	290.0	172.9	141.4	135.7	132.9	130.0	128.6
75°	6279.1	4829.0	515.8	327.2	222.9	142.9	122.9	117.2	112.9	111.4	108.6
77.5°	4217.5	3138.8	381.5	255.7	164.3	115.7	102.9	97.2	92.9	91.4	87.1
80°	1620.1	1195.8	245.7	185.7	115.7	91.4	81.4	75.7	72.9	68.6	65.7
82.5°	477.2	387.2	137.2	114.3	74.3	62.9	58.6	54.3	50.0	45.7	44.3
85°	197.2	177.2	84.3	60.0	45.7	37.1	34.3	30.0	25.7	22.9	20.0
87.5°	91.4	75.7	38.6	22.9	15.7	8.6	4.3	1.4	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)