

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: P484084

Luminaire Tested: **IFLD-S-SA3A-760-U-SL2-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P484084
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3A-760-U-SL2-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL2 distribution lens with House Side Shield
Light Source: (48) 5700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

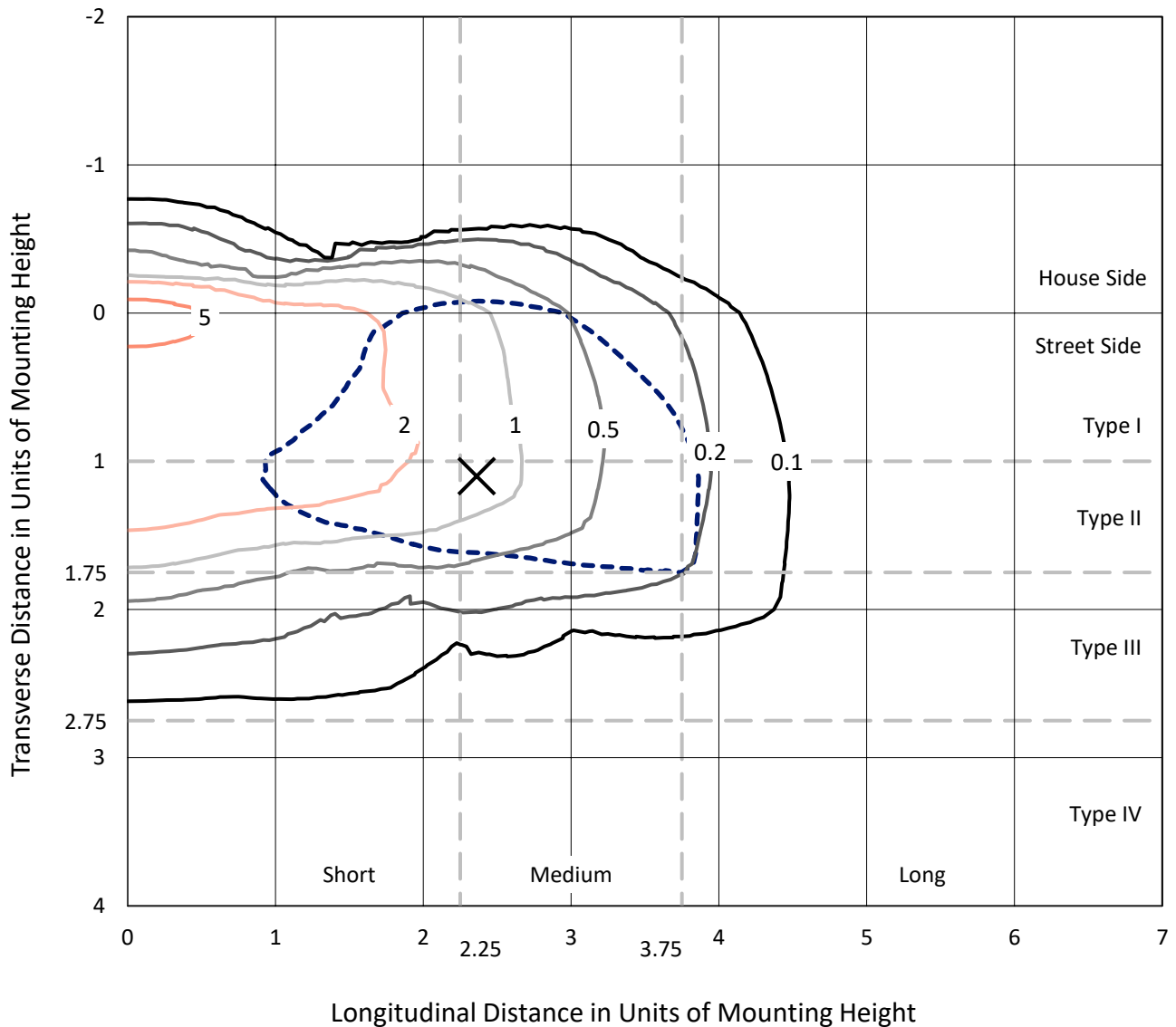
Lumens per Lamp: N/A
Luminaire Lumens: 11583.3 lumens
Efficiency: N/A
Efficacy: 122.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G2

Input Watts (W): 94.8
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

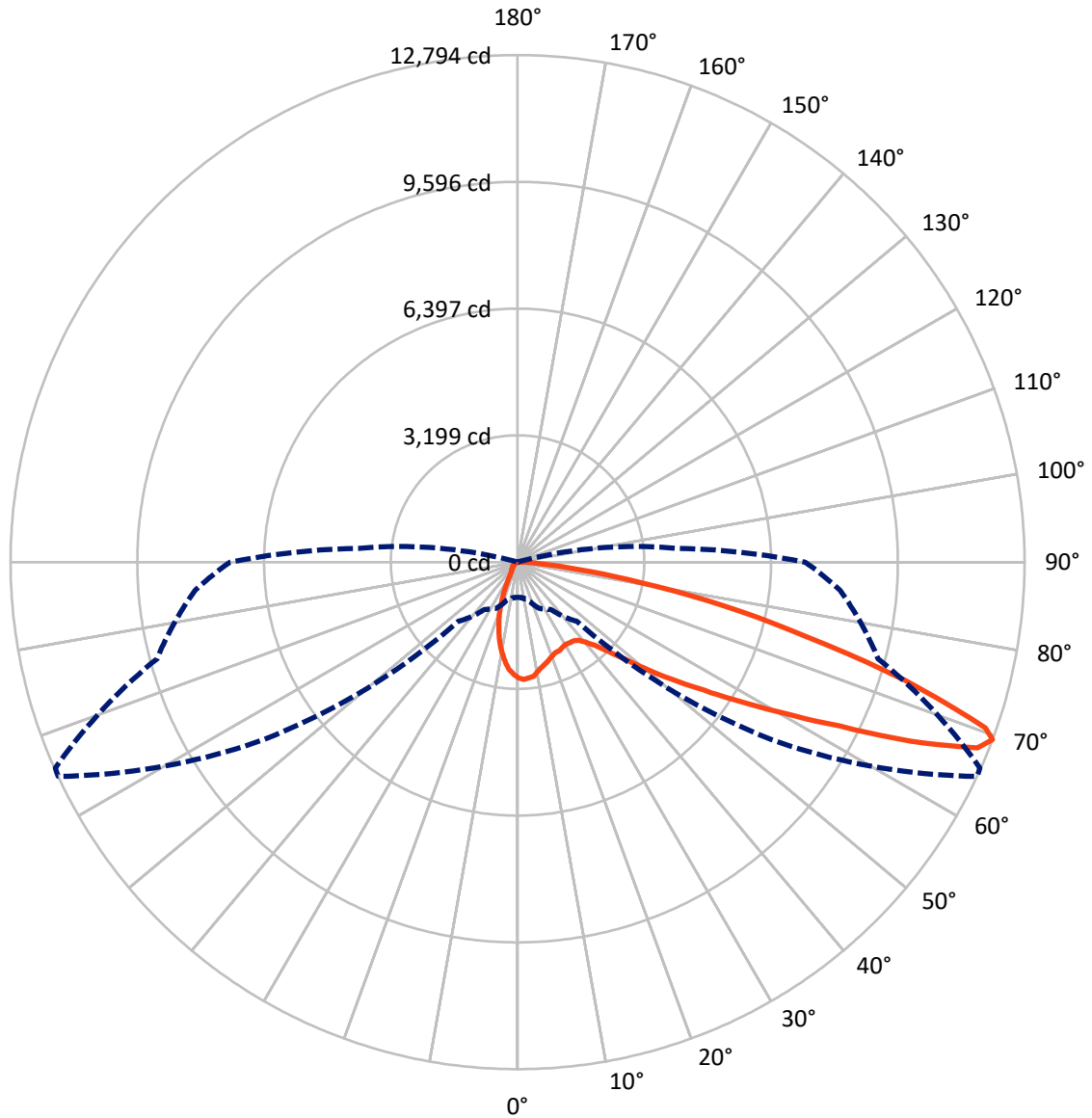
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 7.3 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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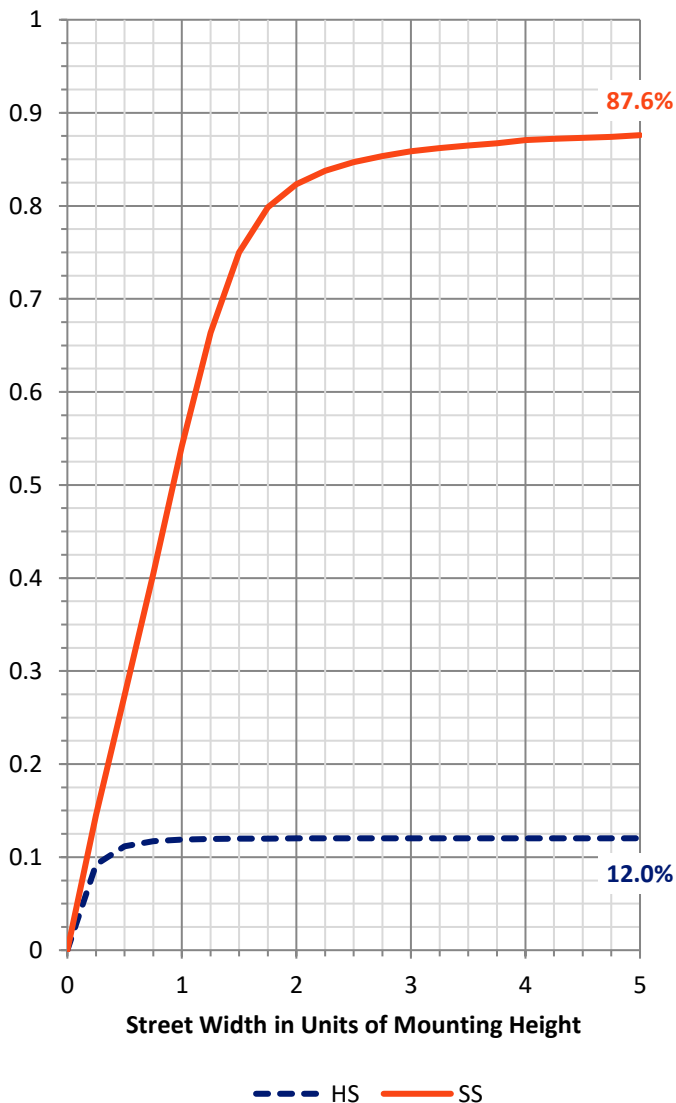
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1405.1	0.0	1405.1
	% Fixture	12.1	0.0	12.1
Street Side	Lumens	10178.2	0.0	10178.2
	% Fixture	87.9	0.0	87.9
Total	Lumens	11583.3	0.0	11583.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	239.0	2.1
10°-20°	522.9	4.5
20°-30°	728.0	6.3
30°-40°	1031.6	8.9
40°-50°	1625.8	14.0
50°-60°	2638.1	22.8
60°-70°	2946.3	25.4
70°-80°	1659.1	14.3
80°-90°	192.5	1.7
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°	11583.3	100.0
0°-180°	11583.3	100.0

Coefficient of Utilization



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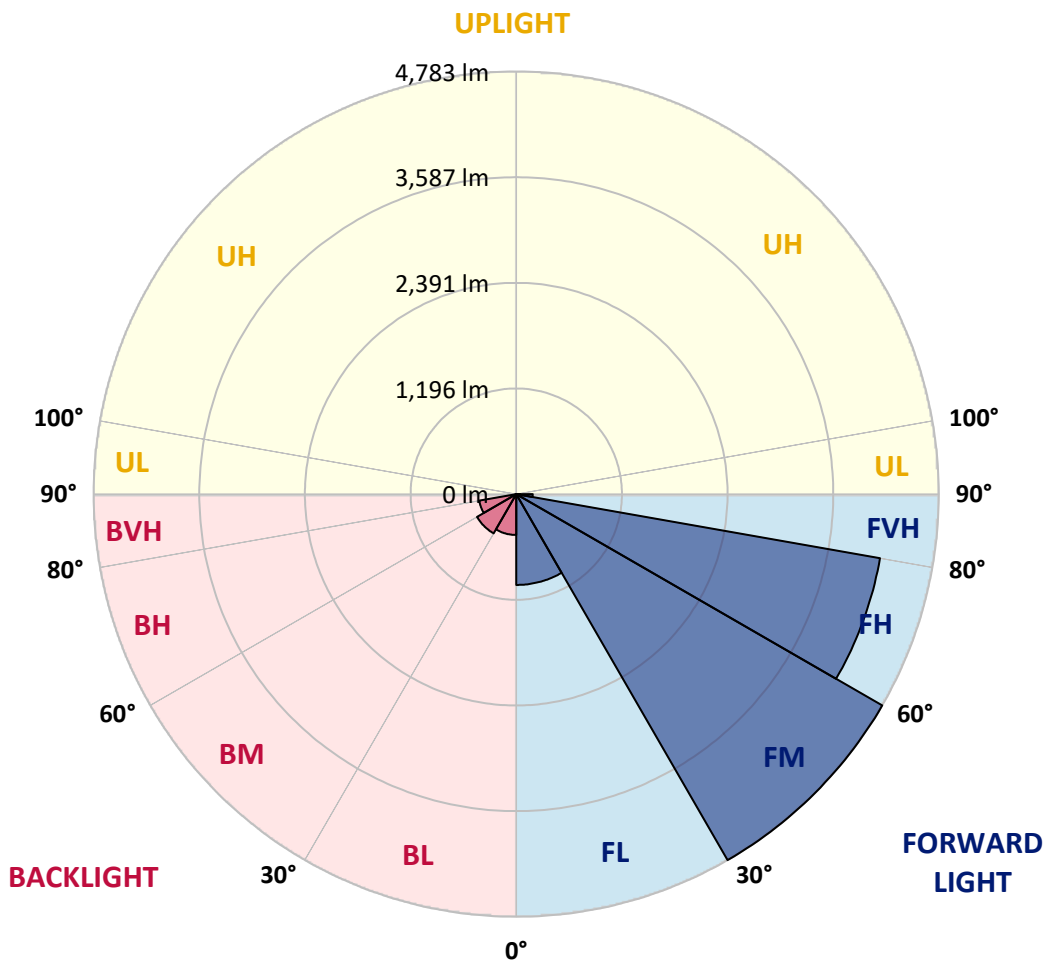
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1027.9	8.9			
FM (30°-60°)	4782.9	41.3			
FH (60°-80°)	4180.2	36.1			G2/5000
FVH (80°-90°)	187.2	1.6			G2/225
BL (0°-30°)	462.0	4.0	B1/500		
BM (30°-60°)	512.7	4.4	B1/1000		
BH (60°-80°)	425.1	3.7	B1/500		G1/500
BVH (80°-90°)	5.3	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 II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	2920.4	2920.4	2920.4	2920.4	2920.4	2920.4	2920.4	2920.4	2920.4	2920.4	2920.4
2.5°	2812.6	2834.5	2840.7	2862.6	2873.5	2920.4	2947.0	2962.6	2954.8	2972.0	2973.5
5°	2612.6	2600.1	2632.9	2656.3	2706.4	2787.6	2870.4	2934.5	2964.2	2992.3	2987.6
7.5°	2398.5	2392.3	2425.1	2478.2	2523.5	2622.0	2754.8	2912.6	2906.4	2975.1	2995.4
10°	2251.6	2257.9	2268.8	2322.0	2389.2	2489.2	2654.8	2801.7	2834.5	2979.8	3020.4
12.5°	2117.3	2128.2	2148.5	2203.2	2281.3	2384.5	2545.4	2717.3	2767.3	2953.2	3034.5
15°	2073.5	2048.5	2089.1	2129.8	2211.0	2303.2	2439.2	2653.2	2675.1	2922.0	3057.9
17.5°	2037.6	2021.9	2040.7	2073.5	2159.5	2234.5	2362.6	2584.5	2625.1	2909.5	3054.8
20°	2048.5	2034.5	2042.3	2067.3	2106.3	2176.6	2295.4	2518.8	2562.6	2851.7	3050.1
22.5°	2079.8	2090.7	2076.6	2082.9	2095.4	2131.3	2259.5	2472.0	2509.5	2840.7	3076.7
25°	2220.4	2201.6	2182.9	2175.1	2101.6	2117.3	2248.5	2468.8	2495.4	2801.7	3054.8
27.5°	2367.3	2351.6	2343.8	2298.5	2198.5	2151.6	2250.1	2425.1	2461.0	2786.0	3028.2
30°	2545.4	2565.7	2534.5	2479.8	2340.7	2225.1	2267.3	2403.2	2453.2	2726.7	3011.0
32.5°	2732.9	2743.9	2759.5	2718.9	2539.2	2336.0	2318.8	2423.5	2426.7	2726.7	2972.0
35°	2945.4	2929.8	2970.4	2973.5	2815.7	2532.9	2417.3	2437.6	2470.4	2714.2	2957.9
37.5°	3128.2	3154.8	3201.7	3276.7	3114.2	2811.0	2570.4	2503.2	2517.3	2772.0	2968.9
40°	3328.2	3354.8	3461.1	3536.1	3443.9	3123.6	2803.2	2656.3	2667.3	2857.9	3025.1
42.5°	3548.6	3600.1	3726.7	3858.0	3833.0	3520.4	3103.2	2881.4	2876.7	3072.0	3140.7
45°	3847.0	3915.8	4053.3	4204.8	4226.7	3975.1	3503.3	3217.3	3232.9	3351.7	3379.8
47.5°	4262.7	4259.5	4393.9	4562.7	4689.2	4447.0	3981.4	3668.9	3667.3	3793.9	3734.5
50°	4664.2	4665.8	4701.7	4897.1	5225.2	5101.8	4573.6	4268.9	4251.7	4314.2	4218.9
52.5°	4850.2	4828.3	4801.7	5037.7	5637.7	5926.8	5323.6	4948.6	4934.6	4897.1	4872.1
55°	4654.9	4662.7	4661.1	4906.4	5854.9	6797.1	6286.2	5697.1	5673.6	5556.5	5590.8
57.5°	4028.3	4003.3	4058.0	4440.8	5606.5	7390.9	7662.8	6640.9	6579.9	6190.9	6112.7
60°	2998.5	3006.4	3051.7	3503.3	4989.2	7515.9	8980.0	7748.7	7486.2	6637.7	6529.9
62.5°	2093.8	2078.2	2095.4	2348.5	3567.3	7015.9	9870.7	9095.6	8842.5	7145.6	7083.1
65°	1498.5	1478.2	1546.9	1701.6	2142.3	5364.3	9997.2	10889.5	10662.9	7956.5	7806.5
67.5°	1078.2	1075.0	1154.7	1436.0	1521.9	3089.2	9059.7	12514.5	12377.0	8919.1	8247.2
69°	892.2	893.8	970.3	1286.0	1453.2	2109.5	7795.6	12794.2	12769.2	9416.0	8164.4
70°	778.2	784.4	873.5	1196.9	1425.1	1734.4	6720.6	12519.2	12494.2	9512.9	7890.9
72.5°	479.7	484.4	601.6	959.4	1354.7	1415.7	4018.9	10242.6	10328.5	9069.1	6798.7
75°	229.7	231.3	315.6	693.8	1306.3	1342.2	2153.2	7558.1	7739.3	7322.1	5312.7
77.5°	121.9	121.9	151.6	368.8	1057.9	1262.5	1278.2	5331.4	5481.5	4629.9	3020.4
80°	60.9	62.5	92.2	192.2	656.3	1237.5	998.5	3179.8	3261.1	1889.1	940.7
82.5°	23.4	25.0	43.8	115.6	340.6	1045.4	876.6	1564.1	1543.8	442.2	229.7
85°	3.1	3.1	15.6	68.8	145.3	461.0	723.5	653.1	631.3	96.9	110.9
87.5°	0.0	0.0	3.1	20.3	43.8	134.4	279.7	179.7	200.0	26.6	54.7
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°	2920.4	2920.4	2920.4	2920.4	2920.4	2920.4	2920.4	2920.4	2920.4	2920.4	2920.4
2.5°	2965.7	2932.9	2882.9	2834.5	2782.9	2720.4	2651.7	2626.7	2582.9	2579.8	2604.8
5°	2962.6	2909.5	2822.0	2718.9	2572.0	2461.0	2340.7	2253.2	2186.0	2142.3	2153.2
7.5°	2978.2	2914.2	2762.6	2540.7	2351.6	2131.3	1945.4	1817.3	1700.1	1642.2	1636.0
10°	2953.2	2867.3	2645.4	2334.5	2056.3	1748.5	1476.6	1304.7	1129.7	1065.7	1068.8
12.5°	2967.3	2847.0	2518.8	2122.0	1739.1	1339.1	1014.1	779.7	615.6	562.5	556.3
15°	2976.7	2803.2	2397.0	1867.3	1387.6	912.5	587.5	442.2	390.6	381.3	379.7
17.5°	2940.7	2750.1	2225.1	1615.7	1028.2	554.7	390.6	361.0	351.6	345.3	342.2
20°	2939.2	2718.9	2076.6	1357.9	686.0	378.1	337.5	326.6	312.5	307.8	307.8
22.5°	2912.6	2653.2	1898.5	1075.0	437.5	325.0	303.1	285.9	270.3	264.1	262.5
25°	2904.8	2576.7	1731.3	807.8	332.8	290.6	268.8	243.8	225.0	215.6	210.9
27.5°	2882.9	2511.0	1562.6	568.8	290.6	259.4	231.3	204.7	182.8	168.8	167.2
30°	2804.8	2442.3	1375.1	393.8	264.1	229.7	198.4	167.2	145.3	135.9	132.8
32.5°	2772.0	2378.2	1170.4	303.1	240.6	203.1	167.2	139.1	121.9	112.5	110.9
35°	2732.9	2284.5	971.9	264.1	218.8	176.6	140.6	117.2	103.1	95.3	95.3
37.5°	2737.6	2209.5	786.0	239.1	195.3	151.6	120.3	100.0	87.5	79.7	79.7
40°	2723.5	2150.1	611.0	217.2	173.4	129.7	101.6	84.4	73.4	65.6	64.1
42.5°	2787.6	2134.5	461.0	198.4	151.6	110.9	87.5	71.9	60.9	51.6	51.6
45°	2895.4	2159.5	359.4	181.3	129.7	95.3	75.0	59.4	48.4	42.2	40.6
47.5°	3182.9	2257.9	281.3	167.2	110.9	82.8	62.5	48.4	39.1	32.8	31.3
50°	3600.1	2478.2	239.1	146.9	93.8	70.3	51.6	37.5	31.3	25.0	23.4
52.5°	4193.9	2848.5	217.2	129.7	78.1	57.8	40.6	29.7	23.4	18.8	17.2
55°	4840.8	3311.1	196.9	109.4	65.6	46.9	32.8	23.4	17.2	12.5	10.9
57.5°	5345.5	3711.1	179.7	90.6	53.1	37.5	25.0	17.2	12.5	7.8	6.3
60°	5897.1	3992.3	157.8	71.9	43.8	28.1	18.8	12.5	9.4	4.7	4.7
62.5°	6465.9	4322.0	129.7	56.3	34.4	21.9	14.1	9.4	6.3	1.6	1.6
65°	7256.5	4579.9	100.0	43.8	26.6	15.6	10.9	7.8	3.1	0.0	0.0
67.5°	7480.0	4453.3	73.4	34.4	18.8	10.9	7.8	4.7	1.6	0.0	0.0
69°	7256.5	4011.1	64.1	29.7	15.6	9.4	6.3	3.1	1.6	0.0	0.0
70°	6848.7	3667.3	56.3	25.0	14.1	9.4	4.7	3.1	1.6	0.0	0.0
72.5°	5728.3	2812.6	43.8	18.8	10.9	7.8	4.7	3.1	0.0	0.0	0.0
75°	4201.7	1737.6	32.8	14.1	9.4	6.3	4.7	3.1	0.0	0.0	0.0
77.5°	2251.6	634.4	23.4	9.4	6.3	4.7	4.7	3.1	0.0	0.0	0.0
80°	617.2	187.5	17.2	6.3	4.7	3.1	3.1	1.6	0.0	0.0	0.0
82.5°	168.8	48.4	10.9	6.3	4.7	3.1	1.6	0.0	0.0	0.0	0.0
85°	90.6	18.8	6.3	4.7	3.1	1.6	0.0	0.0	0.0	0.0	0.0
87.5°	46.9	6.3	4.7	3.1	3.1	1.6	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)