

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: P480243

Luminaire Tested: **IFLD-M-SA4A-827-U-SL2**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P480243
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4A-827-U-SL2
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL2 distribution lens
Light Source: (64) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

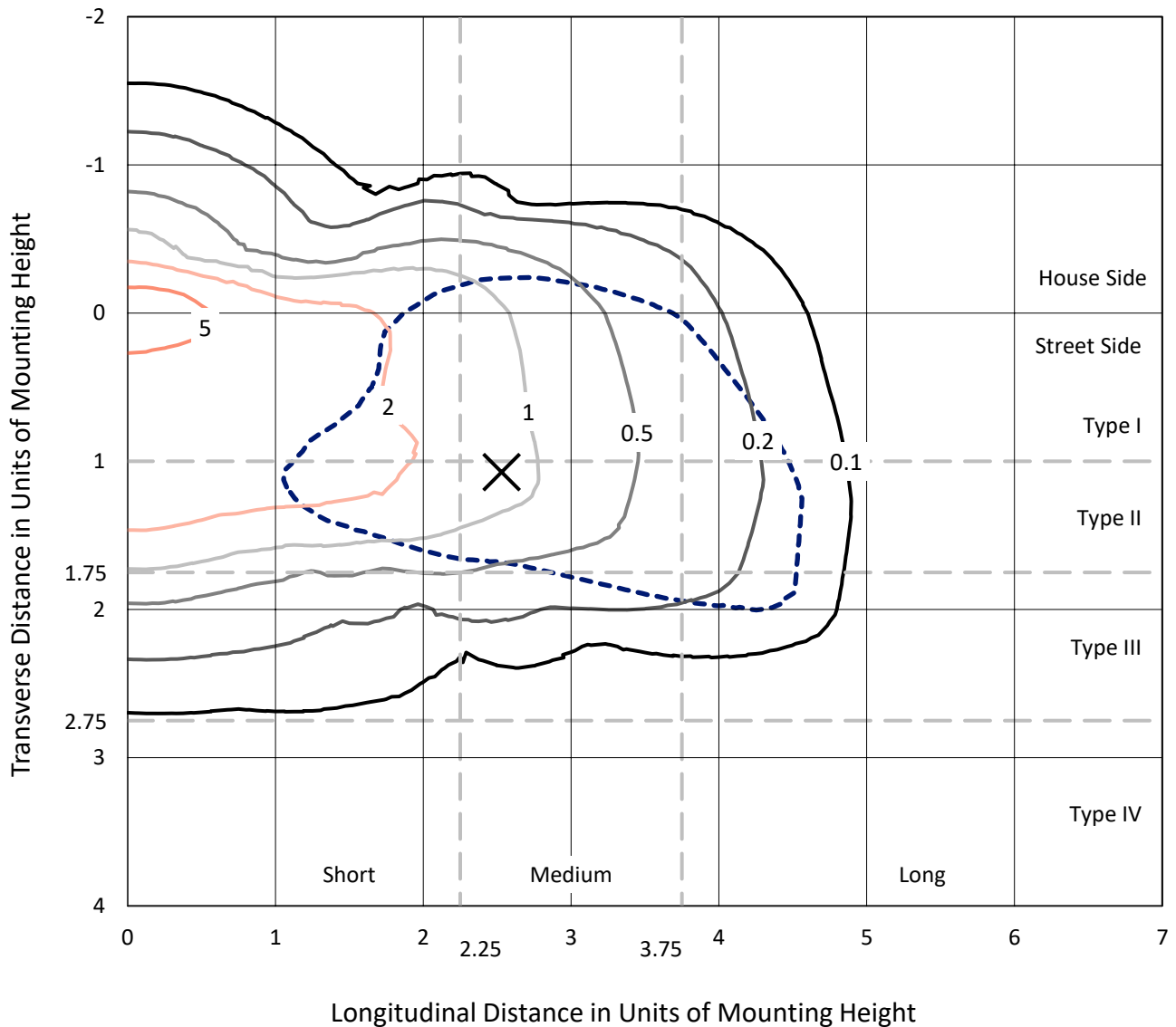
Lumens per Lamp: N/A
Luminaire Lumens: 13535.4 lumens
Efficiency: N/A
Efficacy: 105.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G3

Input Watts (W): 128.6
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

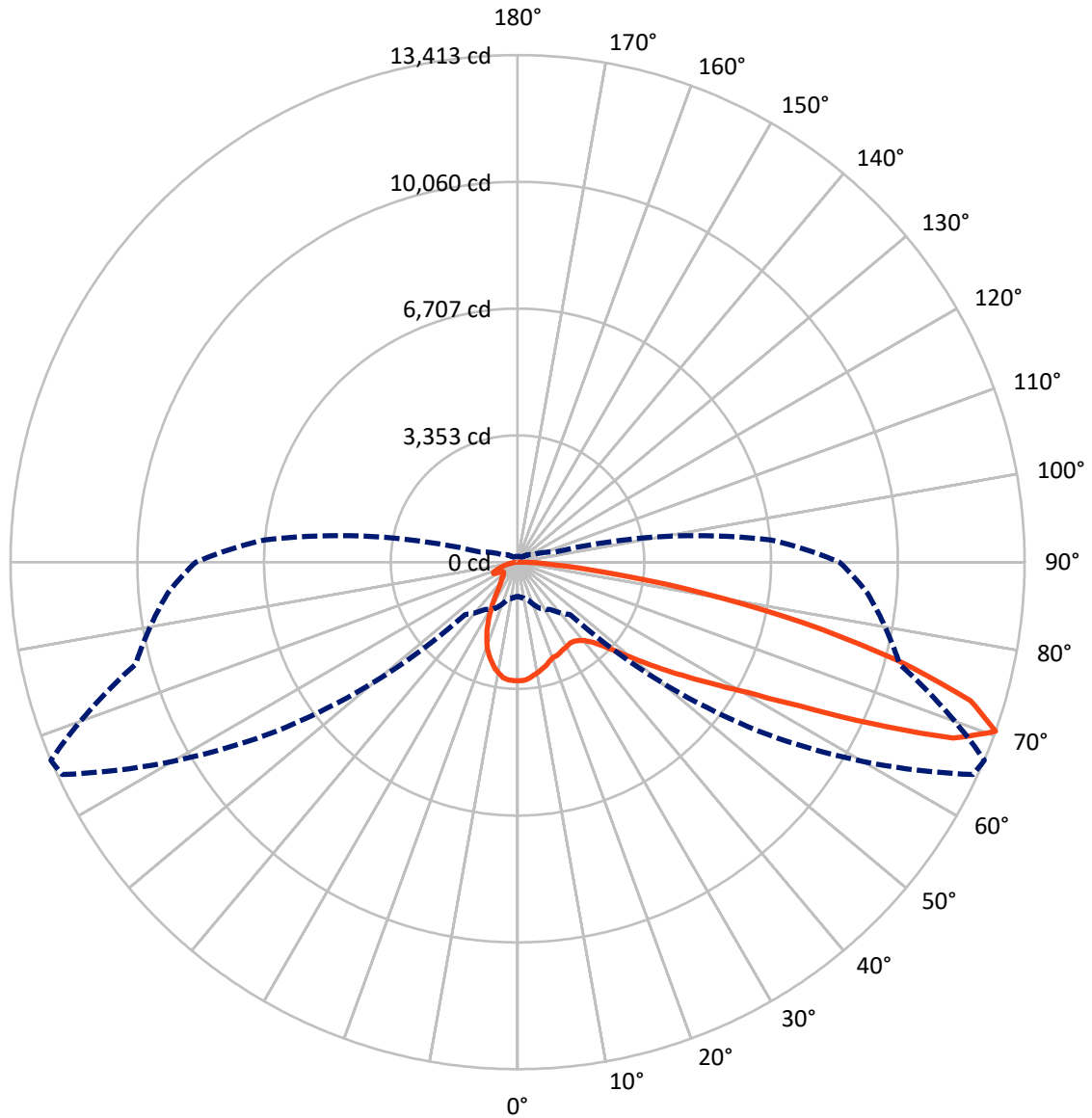
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 7.9 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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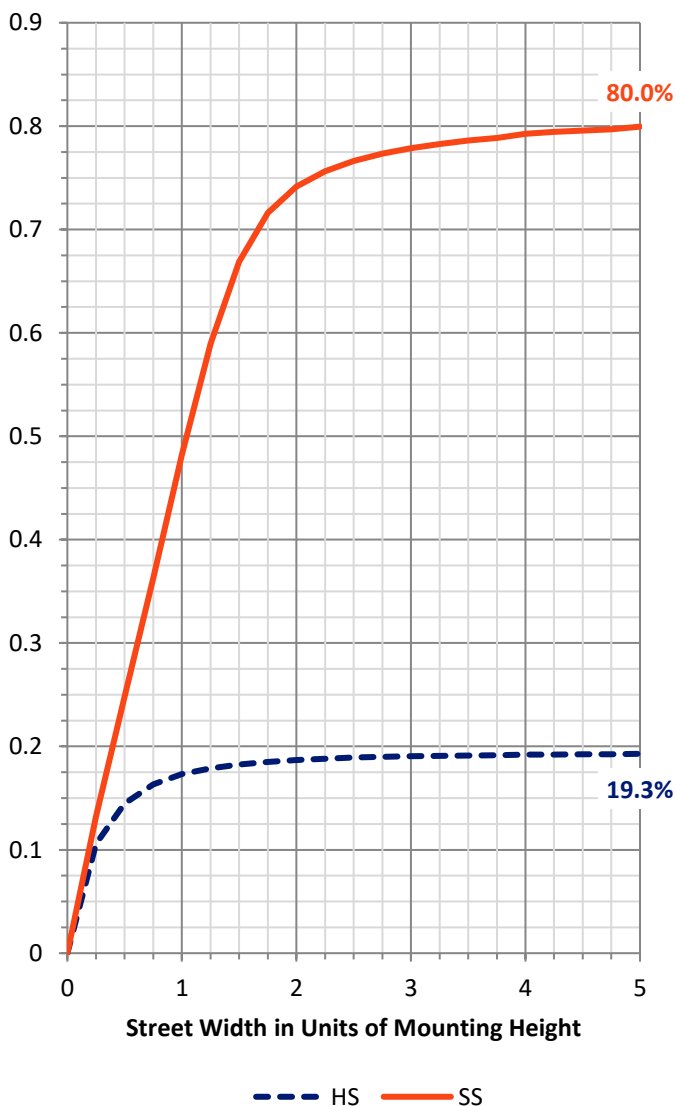
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2636.2	0.0	2636.2
	% Fixture	19.5	0.0	19.5
Street Side	Lumens	10899.3	0.0	10899.3
	% Fixture	80.5	0.0	80.5
Total	Lumens	13535.4	0.0	13535.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	273.4	2.0
10°-20°	654.8	4.8
20°-30°	884.2	6.5
30°-40°	1183.2	8.7
40°-50°	1739.8	12.9
50°-60°	2712.0	20.0
60°-70°	3340.7	24.7
70°-80°	2360.5	17.4
80°-90°	386.9	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°	13535.4	100.0
0°-180°	13535.4	100.0

Coefficient of Utilization



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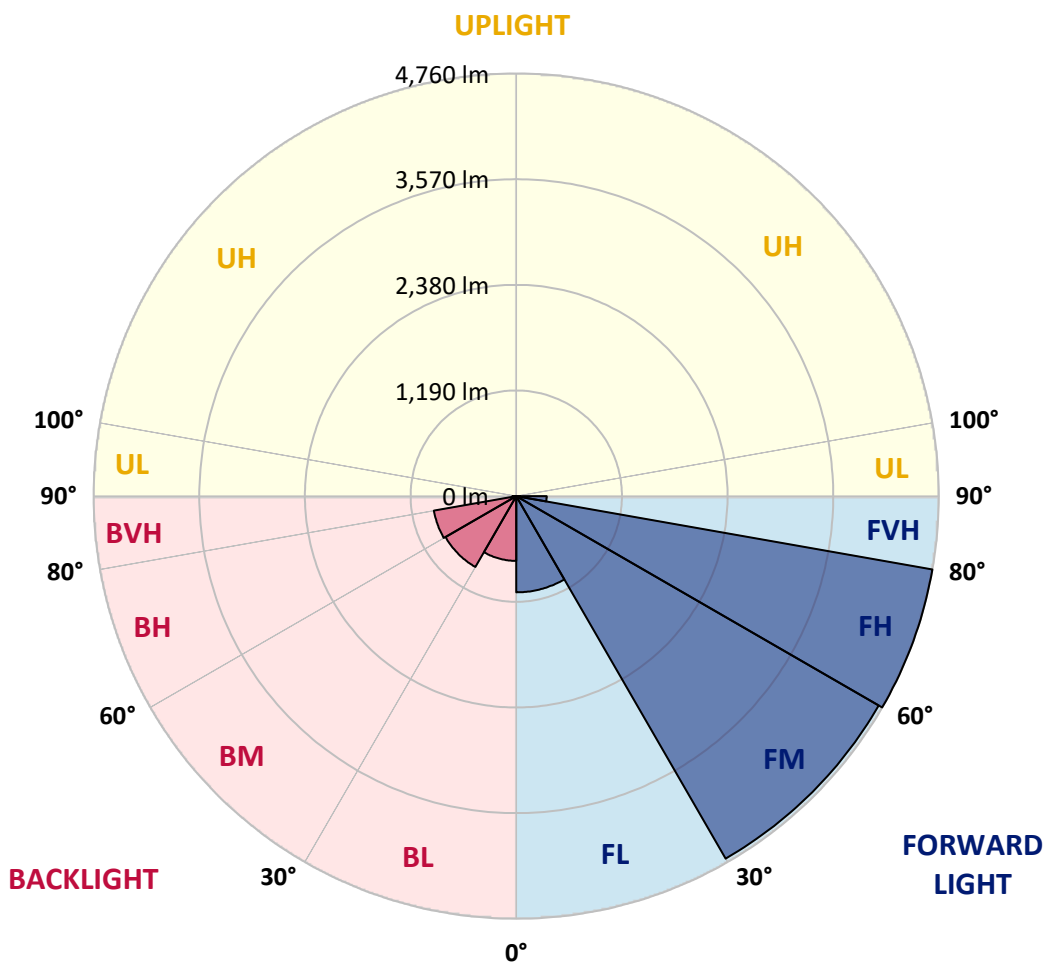
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1083.4	8.0			
FM (30°-60°)	4714.1	34.8			
FH (60°-80°)	4759.5	35.2			G2/5000
FVH (80°-90°)	342.3	2.5			G3/500
BL (0°-30°)	729.0	5.4	B2/1000		
BM (30°-60°)	920.9	6.8	B1/1000		
BH (60°-80°)	941.7	7.0	B2/1000		G2/1000
BVH (80°-90°)	44.6	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°	3133.4	3133.4	3133.4	3133.4	3133.4	3133.4	3133.4	3133.4	3133.4	3133.4	3133.4
2.5°	2917.6	2950.6	2962.6	2980.6	3027.0	3061.5	3082.5	3106.4	3134.9	3158.9	3173.9
5°	2713.8	2731.8	2760.3	2779.8	2838.2	2931.1	2994.0	3095.9	3092.9	3130.4	3187.4
7.5°	2516.0	2534.0	2547.5	2586.4	2670.4	2754.3	2869.7	3034.5	3022.5	3109.4	3197.8
10°	2393.1	2379.7	2384.1	2450.1	2516.0	2610.4	2755.8	2923.6	2967.1	3101.9	3227.8
12.5°	2277.8	2262.8	2298.7	2340.7	2421.6	2507.0	2680.9	2832.2	2898.1	3075.0	3241.3
15°	2205.8	2195.3	2240.3	2258.3	2354.2	2456.1	2579.0	2763.3	2835.2	3042.0	3220.3
17.5°	2165.4	2174.4	2190.8	2229.8	2291.2	2378.2	2513.0	2716.8	2748.3	3001.5	3215.8
20°	2172.9	2183.3	2184.8	2201.3	2243.3	2310.7	2448.6	2667.4	2688.3	2994.0	3227.8
22.5°	2232.8	2217.8	2223.8	2213.3	2225.3	2277.8	2399.1	2601.4	2682.4	2931.1	3202.3
25°	2322.7	2301.7	2298.7	2262.8	2240.3	2255.3	2390.1	2584.9	2637.4	2911.6	3200.8
27.5°	2481.6	2450.1	2450.1	2396.1	2304.7	2280.7	2364.7	2558.0	2604.4	2893.6	3166.4
30°	2634.4	2634.4	2635.9	2559.5	2457.6	2339.2	2375.2	2547.5	2577.5	2839.7	3119.9
32.5°	2820.2	2815.7	2808.2	2770.8	2613.4	2436.6	2426.1	2534.0	2549.0	2821.7	3106.4
35°	3001.5	2989.5	3048.0	3015.0	2854.7	2626.9	2478.6	2540.0	2573.0	2794.7	3064.5
37.5°	3137.9	3145.4	3266.8	3287.8	3149.9	2842.7	2626.9	2599.9	2631.4	2833.7	3064.5
40°	3314.7	3344.7	3458.6	3529.0	3445.1	3127.4	2862.2	2700.3	2722.8	2920.6	3130.4
42.5°	3547.0	3572.5	3717.8	3809.2	3785.3	3490.1	3094.4	2910.1	2892.1	3066.0	3229.3
45°	3854.2	3858.7	4005.5	4131.4	4180.9	3869.2	3463.1	3175.4	3160.4	3316.2	3410.6
47.5°	4219.8	4215.3	4306.7	4441.6	4575.0	4321.7	3887.2	3578.5	3524.5	3674.4	3711.8
50°	4573.5	4554.0	4575.0	4747.3	5003.6	4888.2	4402.7	4071.5	4017.5	4100.0	4164.4
52.5°	4768.3	4792.3	4735.3	4963.1	5459.1	5558.0	5086.0	4660.4	4613.9	4654.4	4766.8
55°	4631.9	4681.4	4643.9	4859.7	5658.4	6374.7	5970.1	5342.2	5282.3	5267.3	5451.6
57.5°	4052.0	4141.9	4149.4	4491.1	5589.5	7007.1	7213.9	6146.9	6057.0	5904.2	6094.5
60°	3110.9	3200.8	3269.8	3674.4	4999.1	7384.7	8655.5	7291.8	6995.1	6599.5	6713.4
62.5°	2180.3	2241.8	2310.7	2559.5	3854.2	7162.9	9902.2	8904.2	8357.3	7332.3	7474.6
65°	1588.4	1636.4	1706.8	1853.7	2367.7	5926.6	10480.7	10819.3	10300.8	8264.3	8246.4
67.5°	1195.8	1225.8	1318.7	1554.0	1640.9	3660.9	9881.2	12842.3	12422.7	9299.8	8866.7
70°	905.1	930.6	1017.5	1339.7	1533.0	1963.1	7795.3	13293.4	13413.3	10461.2	9283.3
72.5°	623.4	651.9	749.3	1116.4	1459.6	1557.0	4892.7	12076.6	12530.6	10939.2	8836.8
75°	382.1	401.6	458.5	846.7	1449.1	1522.5	2692.8	9896.2	10377.3	10107.5	7730.9
77.5°	269.7	268.2	278.7	496.0	1255.8	1531.5	1660.4	7251.3	7718.9	7449.1	5246.3
80°	196.3	197.8	208.3	296.7	852.7	1557.0	1308.2	4856.7	4996.1	3884.2	2069.5
82.5°	118.4	124.4	149.9	200.8	512.5	1405.6	1209.3	2698.8	2525.0	1246.8	569.4
85°	62.9	62.9	88.4	127.4	272.7	1049.0	1164.4	1284.2	1075.9	386.6	211.3
87.5°	15.0	15.0	25.5	50.9	109.4	502.0	794.2	511.0	409.1	130.4	86.9
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°	3133.4	3133.4	3133.4	3133.4	3133.4	3133.4	3133.4	3133.4	3133.4	3133.4	3133.4
2.5°	3167.9	3149.9	3172.4	3127.4	3091.4	3092.9	3037.5	3034.5	3027.0	2988.1	3001.5
5°	3203.8	3188.9	3163.4	3113.9	3034.5	2955.1	2907.1	2845.7	2820.2	2806.7	2812.7
7.5°	3238.3	3211.3	3137.9	3069.0	2946.1	2796.2	2709.3	2626.9	2522.0	2510.0	2489.0
10°	3247.3	3190.4	3095.9	2949.1	2785.8	2619.4	2421.6	2268.8	2187.8	2124.9	2100.9
12.5°	3233.8	3209.8	3028.5	2839.7	2592.4	2331.7	2100.9	1885.1	1735.3	1657.4	1636.4
15°	3232.3	3190.4	2953.6	2673.4	2357.2	2017.0	1688.8	1429.6	1272.2	1207.8	1207.8
17.5°	3233.8	3133.4	2865.2	2505.5	2079.9	1619.9	1258.8	1046.0	959.1	950.1	957.6
20°	3203.8	3091.4	2772.3	2307.7	1732.3	1216.8	914.1	827.2	827.2	839.2	843.7
22.5°	3176.9	3028.5	2625.4	2063.5	1378.6	881.1	743.3	717.8	746.3	767.2	776.2
25°	3139.4	2976.1	2475.6	1810.2	1049.0	710.3	645.9	651.9	678.8	716.3	713.3
27.5°	3085.5	2884.7	2297.2	1516.5	780.7	612.9	596.4	599.4	627.9	644.4	641.4
30°	3024.0	2791.7	2132.4	1224.3	618.9	561.9	560.4	567.9	572.4	581.4	579.9
32.5°	2946.1	2668.9	1957.1	951.6	557.4	533.5	527.5	523.0	527.5	526.0	521.5
35°	2890.6	2602.9	1778.7	725.3	523.0	508.0	503.5	496.0	490.0	481.0	479.5
37.5°	2875.7	2537.0	1591.4	591.9	496.0	488.5	473.5	460.0	452.6	448.1	445.1
40°	2866.7	2493.5	1408.6	520.0	473.5	466.0	448.1	430.1	422.6	418.1	419.6
42.5°	2898.1	2469.6	1222.8	484.0	454.1	440.6	421.1	400.1	398.6	395.6	400.1
45°	3009.0	2499.5	1050.5	458.5	434.6	412.1	386.6	376.1	374.6	371.6	374.6
47.5°	3260.8	2574.5	903.6	442.1	413.6	394.1	367.1	352.2	350.7	349.2	349.2
50°	3608.4	2805.2	780.7	422.6	400.1	373.1	347.7	331.2	328.2	322.2	322.2
52.5°	4153.9	3193.3	707.3	412.1	376.1	353.7	326.7	308.7	301.2	295.2	295.2
55°	4768.3	3674.4	693.8	394.1	350.7	329.7	305.7	287.7	280.2	272.7	269.7
57.5°	5468.1	4311.2	789.7	382.1	332.7	305.7	278.7	262.2	256.2	248.8	245.8
60°	6120.0	4946.6	1087.9	364.1	316.2	283.2	256.2	239.8	232.3	224.8	224.8
62.5°	6873.7	5733.3	1592.9	364.1	301.2	259.2	232.3	220.3	215.8	208.3	206.8
65°	7765.3	6547.0	1961.6	386.6	296.7	238.3	209.8	197.8	193.3	188.8	187.3
67.5°	8444.2	7014.6	1687.3	446.6	316.2	220.3	187.3	179.8	176.8	172.3	169.3
70°	8516.1	6729.9	1017.5	482.5	335.7	202.3	167.8	160.3	160.3	155.8	152.8
72.5°	7870.2	5971.6	684.8	430.1	304.2	181.3	148.4	142.4	139.4	136.4	134.9
75°	6586.0	5065.0	541.0	343.2	233.8	149.9	128.9	122.9	118.4	116.9	113.9
77.5°	4423.6	3292.3	400.1	268.2	172.3	121.4	107.9	101.9	97.4	95.9	91.4
80°	1699.3	1254.3	257.7	194.8	121.4	95.9	85.4	79.4	76.4	71.9	68.9
82.5°	500.5	406.1	143.9	119.9	77.9	65.9	61.4	56.9	52.4	48.0	46.5
85°	206.8	185.8	88.4	62.9	48.0	39.0	36.0	31.5	27.0	24.0	21.0
87.5°	95.9	79.4	40.5	24.0	16.5	9.0	4.5	1.5	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)