

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: P480103

Luminaire Tested: **IFLD-S-SA2C-740-U-SL2**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P480103
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2C-740-U-SL2
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL2 distribution lens
Light Source: (32) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

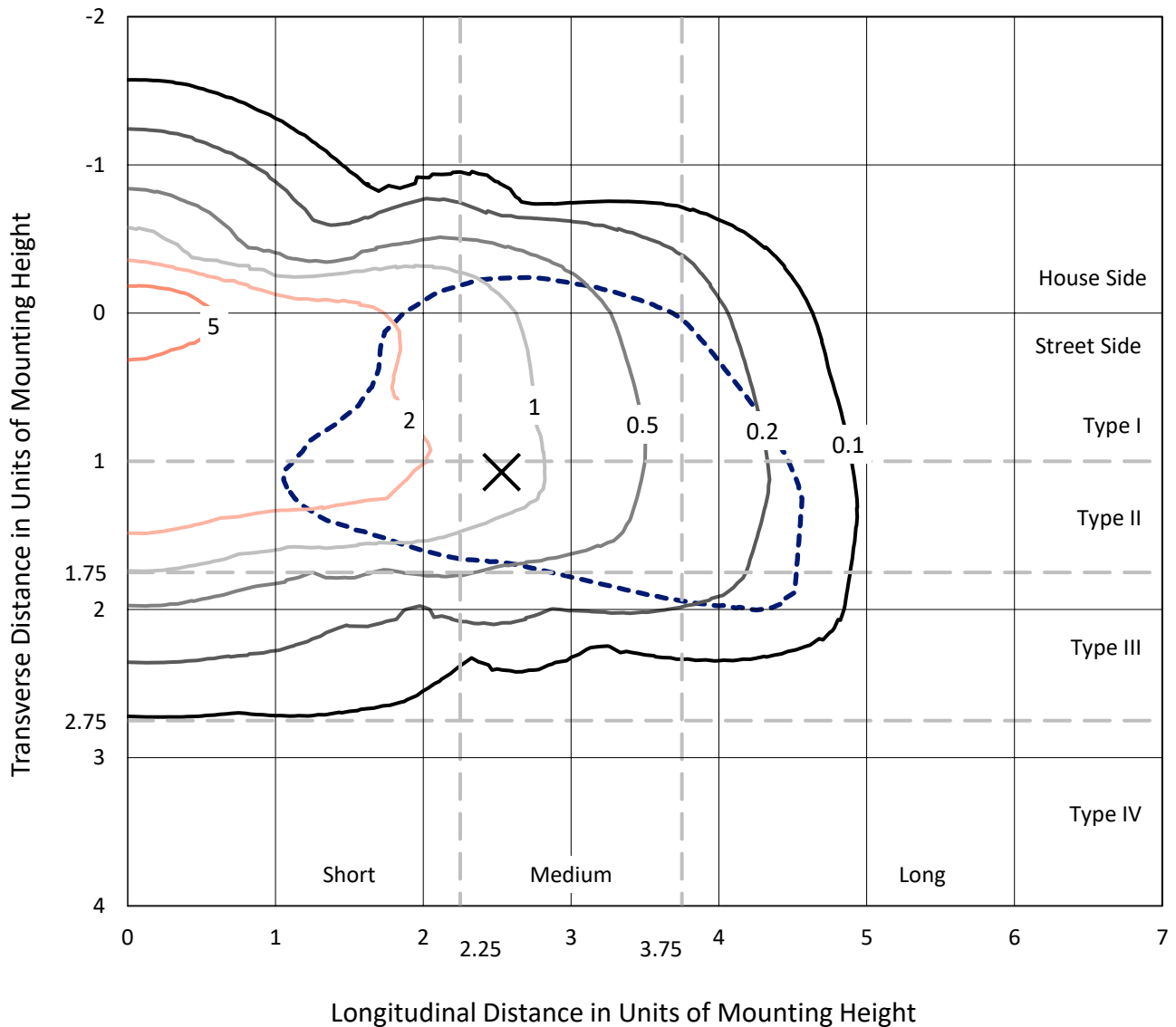
Lumens per Lamp: N/A
Luminaire Lumens: 14171.6 lumens
Efficiency: N/A
Efficacy: 131.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G3

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

REPORT NUMBER: P480103
 CATALOG NUMBER: IFLD-S-SA2C-740-U-SL2

Iso-Footcandle Lines of Horizontal Illumination

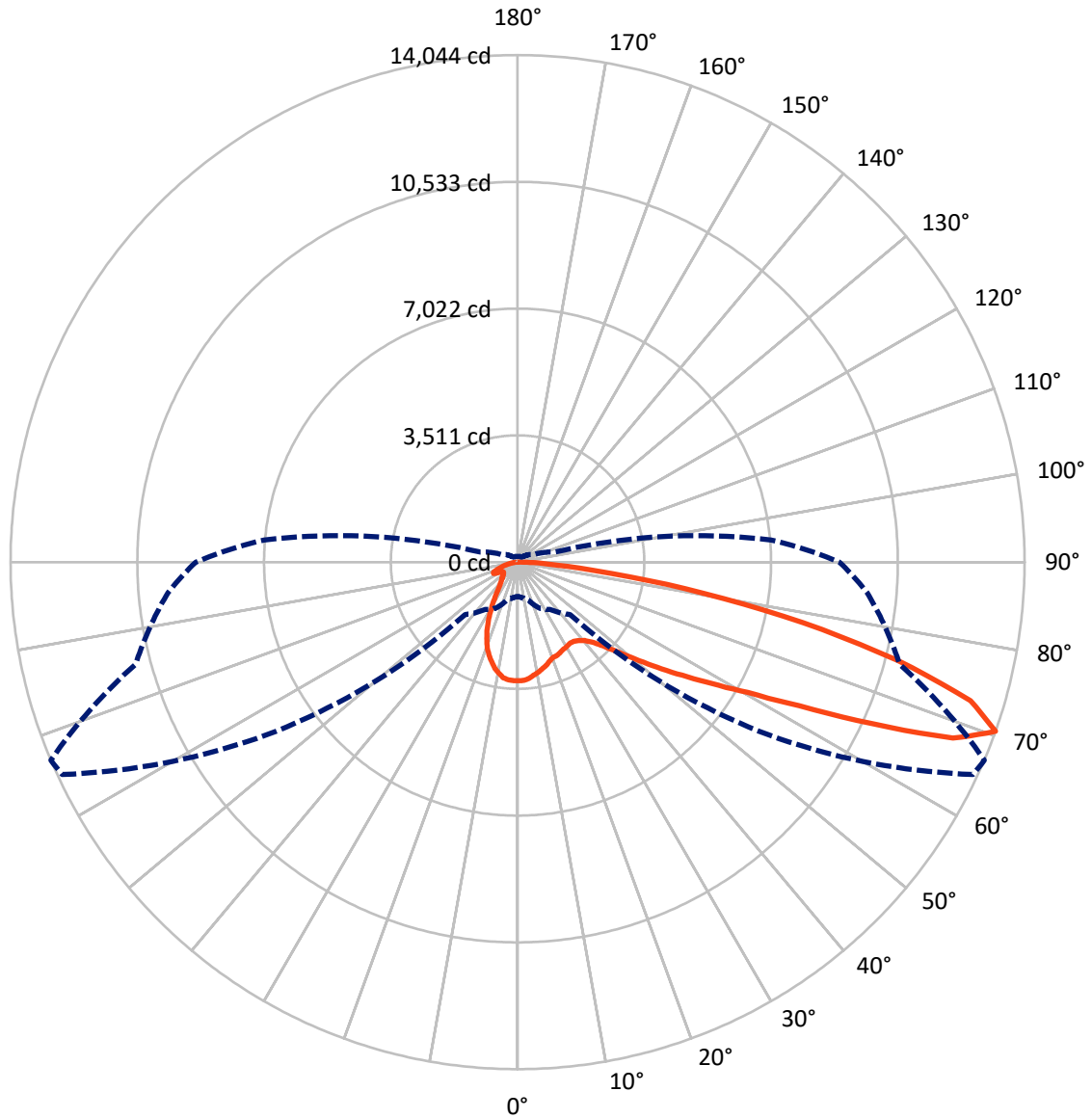
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 8.3 fc
 Type III - Medium - N/A

REPORT NUMBER: P480103
CATALOG NUMBER: IFLD-S-SA2C-740-U-SL2

Luminous Intensity Polar Plot



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

REPORT NUMBER: P480103
 CATALOG NUMBER: IFLD-S-SA2C-740-U-SL2

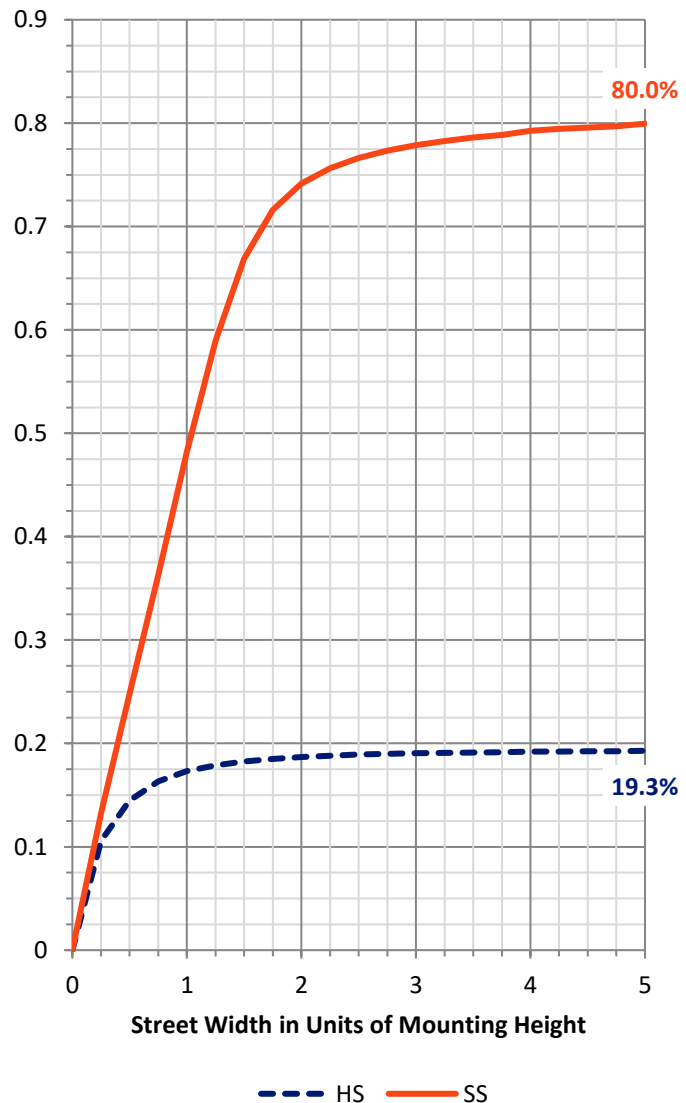
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2760.0	0.0	2760.0
	% Fixture	19.5	0.0	19.5
Street Side	Lumens	11411.5	0.0	11411.5
	% Fixture	80.5	0.0	80.5
Total	Lumens	14171.6	0.0	14171.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	286.2	2.0
10°-20°	685.5	4.8
20°-30°	925.8	6.5
30°-40°	1238.8	8.7
40°-50°	1821.6	12.9
50°-60°	2839.4	20.0
60°-70°	3497.7	24.7
70°-80°	2471.4	17.4
80°-90°	405.1	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°	14171.6	100.0
0°-180°	14171.6	100.0

Coefficient of Utilization

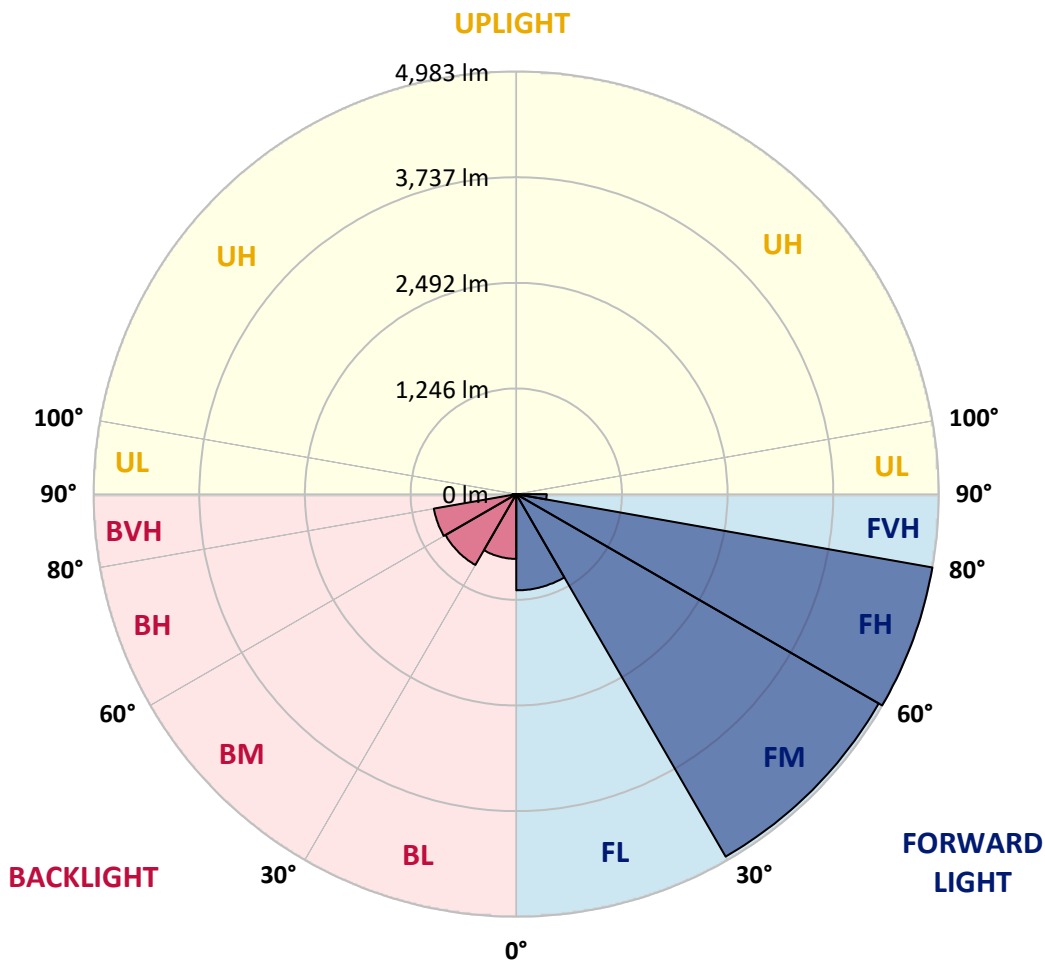


REPORT NUMBER: P480103
 CATALOG NUMBER: IFLD-S-SA2C-740-U-SL2

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1134.3	8.0			
FM (30°-60°)	4935.7	34.8			
FH (60°-80°)	4983.2	35.2			G2/5000
FVH (80°-90°)	358.3	2.5			G3/500
BL (0°-30°)	763.2	5.4	B2/1000		
BM (30°-60°)	964.1	6.8	B1/1000		
BH (60°-80°)	985.9	7.0	B2/1000		G2/1000
BVH (80°-90°)	46.7	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





REPORT NUMBER: P480103

CATALOG NUMBER: IFLD-S-SA2C-740-U-SL2

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	3280.7	3280.7	3280.7	3280.7	3280.7	3280.7	3280.7	3280.7	3280.7	3280.7	3280.7
2.5°	3054.7	3089.3	3101.8	3120.6	3169.3	3205.4	3227.3	3252.4	3282.2	3307.3	3323.0
5°	2841.4	2860.2	2890.0	2910.4	2971.6	3068.9	3134.8	3241.5	3238.3	3277.5	3337.2
7.5°	2634.3	2653.1	2667.2	2708.0	2795.9	2883.7	3004.5	3177.1	3164.6	3255.6	3348.1
10°	2505.6	2491.5	2496.2	2565.2	2634.3	2733.1	2885.3	3061.0	3106.5	3247.7	3379.5
12.5°	2384.8	2369.1	2406.8	2450.7	2535.4	2624.9	2806.9	2965.3	3034.4	3219.5	3393.6
15°	2309.5	2298.5	2345.6	2364.4	2464.8	2571.5	2700.2	2893.1	2968.5	3185.0	3371.7
17.5°	2267.1	2276.5	2293.8	2334.6	2398.9	2489.9	2631.1	2844.5	2877.5	3142.6	3367.0
20°	2275.0	2286.0	2287.5	2304.8	2348.7	2419.3	2563.7	2792.7	2814.7	3134.8	3379.5
22.5°	2337.7	2322.0	2328.3	2317.3	2329.9	2384.8	2511.9	2723.7	2808.4	3068.9	3352.8
25°	2431.9	2409.9	2406.8	2369.1	2345.6	2361.3	2502.5	2706.4	2761.4	3048.5	3351.3
27.5°	2598.2	2565.2	2565.2	2508.8	2413.0	2387.9	2475.8	2678.2	2726.8	3029.6	3315.2
30°	2758.2	2758.2	2759.8	2679.8	2573.1	2449.1	2486.8	2667.2	2698.6	2973.2	3266.6
32.5°	2952.8	2948.1	2940.2	2901.0	2736.3	2551.1	2540.1	2653.1	2668.8	2954.3	3252.4
35°	3142.6	3130.1	3191.2	3156.7	2988.9	2750.4	2595.0	2659.4	2693.9	2926.1	3208.5
37.5°	3285.4	3293.2	3420.3	3442.3	3297.9	2976.3	2750.4	2722.1	2755.1	2966.9	3208.5
40°	3470.5	3501.9	3621.1	3694.9	3607.0	3274.4	2996.7	2827.2	2850.8	3057.9	3277.5
42.5°	3713.7	3740.4	3892.6	3988.3	3963.2	3654.1	3239.9	3046.9	3028.1	3210.1	3381.1
45°	4035.3	4040.0	4193.8	4325.6	4377.4	4051.0	3625.8	3324.6	3308.9	3472.1	3570.9
47.5°	4418.2	4413.5	4509.2	4650.4	4790.0	4524.9	4069.9	3746.7	3690.2	3847.1	3886.3
50°	4788.4	4768.0	4790.0	4970.4	5238.7	5117.9	4609.6	4262.8	4206.4	4292.6	4360.1
52.5°	4992.4	5017.5	4957.9	5196.4	5715.7	5819.2	5325.0	4879.4	4830.8	4873.2	4990.8
55°	4849.6	4901.4	4862.2	5088.1	5924.4	6674.3	6250.7	5593.3	5530.6	5514.9	5707.8
57.5°	4242.4	4336.6	4344.4	4702.1	5852.2	7336.4	7552.9	6435.8	6341.7	6181.7	6380.9
60°	3257.1	3351.3	3423.5	3847.1	5234.0	7731.8	9062.3	7634.5	7323.9	6909.7	7028.9
62.5°	2282.8	2347.2	2419.3	2679.8	4035.3	7499.6	10367.6	9322.7	8750.0	7676.9	7825.9
65°	1663.1	1713.3	1787.0	1940.8	2478.9	6205.2	10973.2	11327.8	10785.0	8652.8	8633.9
67.5°	1252.0	1283.4	1380.7	1627.0	1718.0	3832.9	10345.7	13445.9	13006.6	9736.9	9283.5
70°	947.6	974.3	1065.3	1402.6	1605.0	2055.3	8161.7	13918.2	14043.7	10952.8	9719.7
72.5°	652.7	682.5	784.5	1168.9	1528.2	1630.1	5122.6	12644.2	13119.6	11453.3	9252.1
75°	400.1	420.5	480.1	886.5	1517.2	1594.1	2819.4	10361.4	10865.0	10582.6	8094.2
77.5°	282.4	280.8	291.8	519.3	1314.8	1603.5	1738.4	7592.2	8081.7	7799.3	5492.9
80°	205.5	207.1	218.1	310.7	892.7	1630.1	1369.7	5085.0	5230.9	4066.7	2166.7
82.5°	123.9	130.2	156.9	210.2	536.6	1471.7	1266.1	2825.7	2643.7	1305.4	596.2
85°	65.9	65.9	92.6	133.4	285.5	1098.3	1219.1	1344.6	1126.5	404.8	221.2
87.5°	15.7	15.7	26.7	53.3	114.5	525.6	831.5	535.0	428.3	136.5	91.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P480103
 CATALOG NUMBER: IFLD-S-SA2C-740-U-SL2

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3280.7	3280.7	3280.7	3280.7	3280.7	3280.7	3280.7	3280.7	3280.7	3280.7	3280.7
2.5°	3316.8	3297.9	3321.5	3274.4	3236.7	3238.3	3180.3	3177.1	3169.3	3128.5	3142.6
5°	3354.4	3338.7	3312.1	3260.3	3177.1	3094.0	3043.8	2979.4	2952.8	2938.6	2944.9
7.5°	3390.5	3362.3	3285.4	3213.2	3084.6	2927.7	2836.7	2750.4	2640.5	2628.0	2606.0
10°	3399.9	3340.3	3241.5	3087.7	2916.7	2742.5	2535.4	2375.4	2290.7	2224.8	2199.7
12.5°	3385.8	3360.7	3170.8	2973.2	2714.3	2441.3	2199.7	1973.7	1816.8	1735.3	1713.3
15°	3384.2	3340.3	3092.4	2799.0	2468.0	2111.8	1768.2	1496.8	1332.0	1264.6	1264.6
17.5°	3385.8	3280.7	2999.8	2623.3	2177.7	1696.0	1317.9	1095.1	1004.1	994.7	1002.6
20°	3354.4	3236.7	2902.6	2416.2	1813.7	1274.0	957.1	866.1	866.1	878.6	883.3
22.5°	3326.2	3170.8	2748.8	2160.4	1443.4	922.5	778.2	751.5	781.3	803.3	812.7
25°	3287.0	3115.9	2591.9	1895.3	1098.3	743.7	676.2	682.5	710.7	750.0	746.8
27.5°	3230.5	3020.2	2405.2	1587.8	817.4	641.7	624.4	627.6	657.4	674.6	671.5
30°	3166.1	2923.0	2232.6	1281.8	648.0	588.4	586.8	594.6	599.3	608.8	607.2
32.5°	3084.6	2794.3	2049.0	996.3	583.6	558.5	552.3	547.6	552.3	550.7	546.0
35°	3026.5	2725.3	1862.3	759.4	547.6	531.9	527.2	519.3	513.0	503.6	502.1
37.5°	3010.8	2656.2	1666.2	619.7	519.3	511.5	495.8	481.7	473.8	469.1	466.0
40°	3001.4	2610.7	1474.8	544.4	495.8	487.9	469.1	450.3	442.4	437.7	439.3
42.5°	3034.4	2585.6	1280.3	506.8	475.4	461.3	440.9	418.9	417.3	414.2	418.9
45°	3150.5	2617.0	1099.8	480.1	455.0	431.5	404.8	393.8	392.2	389.1	392.2
47.5°	3414.0	2695.5	946.1	462.8	433.0	412.6	384.4	368.7	367.1	365.6	365.6
50°	3778.0	2937.1	817.4	442.4	418.9	390.7	364.0	346.7	343.6	337.3	337.3
52.5°	4349.1	3343.4	740.5	431.5	393.8	370.3	342.0	323.2	315.4	309.1	309.1
55°	4992.4	3847.1	726.4	412.6	367.1	345.2	320.1	301.2	293.4	285.5	282.4
57.5°	5725.1	4513.9	826.8	400.1	348.3	320.1	291.8	274.6	268.3	260.4	257.3
60°	6407.6	5179.1	1139.1	381.3	331.0	296.5	268.3	251.0	243.2	235.3	235.3
62.5°	7196.8	6002.8	1667.8	381.3	315.4	271.4	243.2	230.6	225.9	218.1	216.5
65°	8130.3	6854.7	2053.8	404.8	310.7	249.5	219.7	207.1	202.4	197.7	196.1
67.5°	8841.0	7344.3	1766.6	467.5	331.0	230.6	196.1	188.3	185.1	180.4	177.3
70°	8916.3	7046.2	1065.3	505.2	351.4	211.8	175.7	167.9	167.9	163.2	160.0
72.5°	8240.1	6252.3	717.0	450.3	318.5	189.8	155.3	149.1	145.9	142.8	141.2
75°	6895.5	5303.1	566.4	359.3	244.8	156.9	134.9	128.7	123.9	122.4	119.2
77.5°	4631.5	3447.0	418.9	280.8	180.4	127.1	113.0	106.7	102.0	100.4	95.7
80°	1779.2	1313.2	269.9	204.0	127.1	100.4	89.4	83.2	80.0	75.3	72.2
82.5°	524.0	425.2	150.6	125.5	81.6	69.0	64.3	59.6	54.9	50.2	48.6
85°	216.5	194.5	92.6	65.9	50.2	40.8	37.7	32.9	28.2	25.1	22.0
87.5°	100.4	83.2	42.4	25.1	17.3	9.4	4.7	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)