

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: P480106

Luminaire Tested: **IFLD-S-SA3A-740-U-SL2**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P480106
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3A-740-U-SL2
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL2 distribution lens
Light Source: (48) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

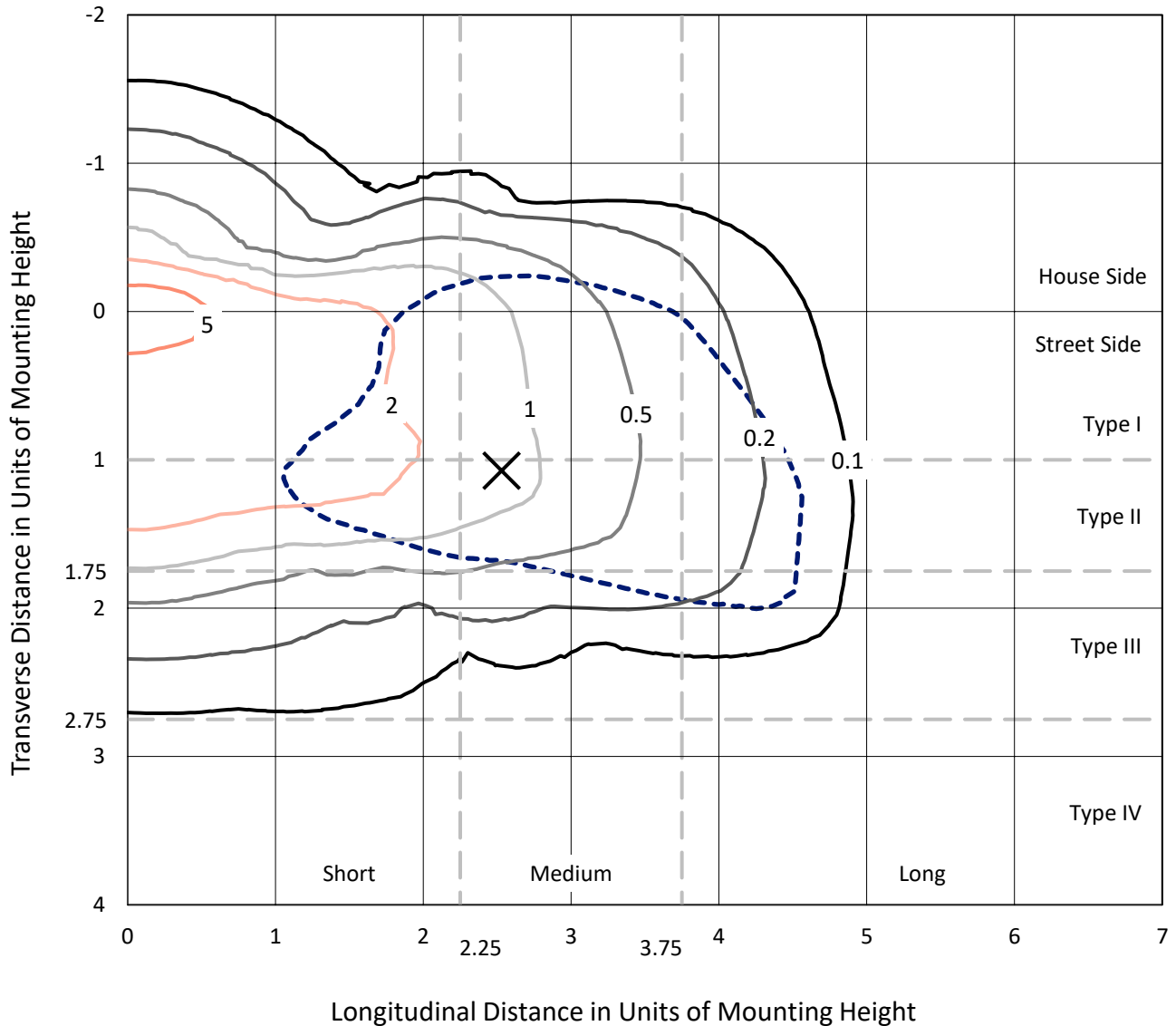
Lumens per Lamp: N/A
Luminaire Lumens: 13718.1 lumens
Efficiency: N/A
Efficacy: 144.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G3

Input Watts (W): 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

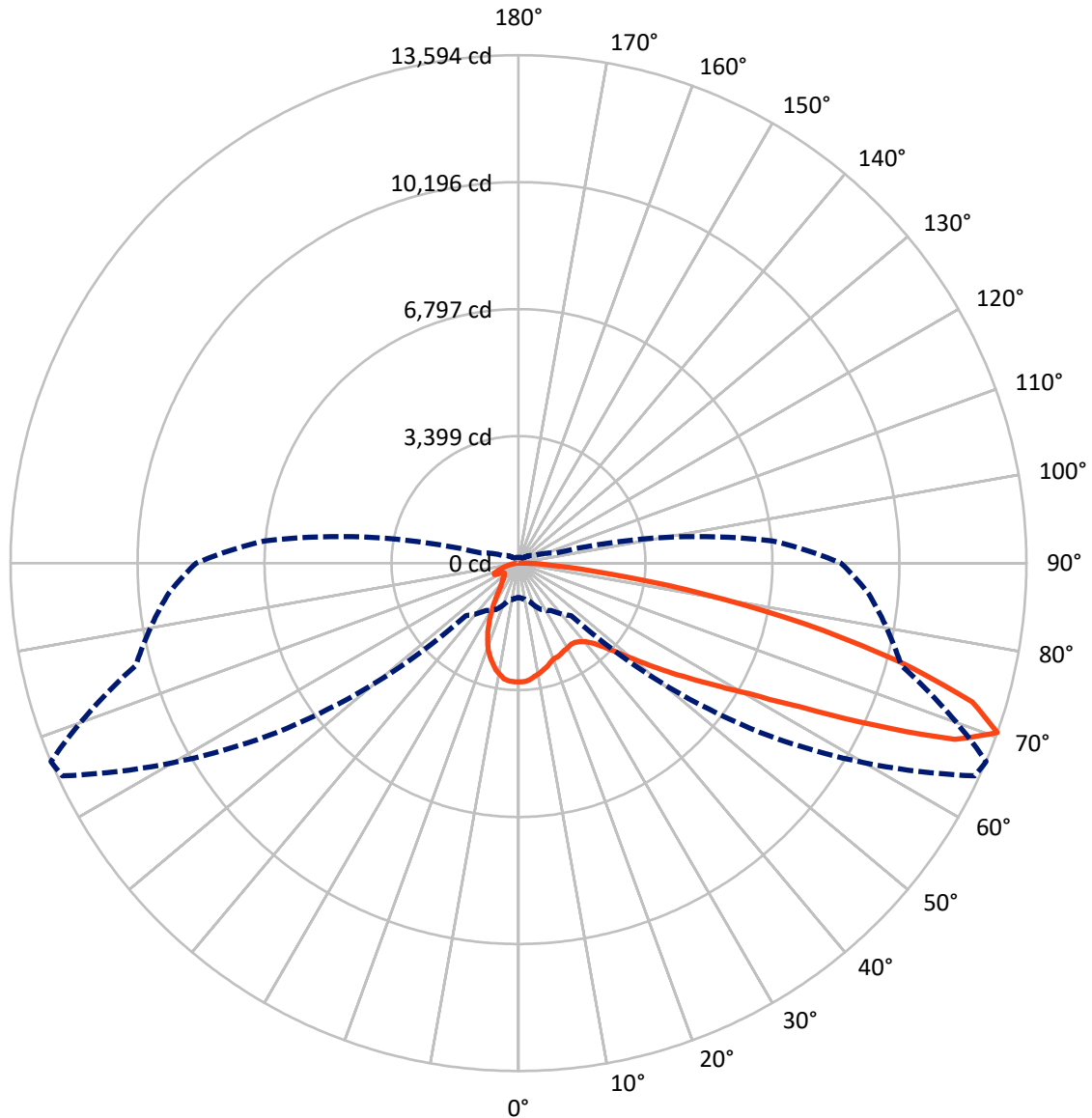
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 8 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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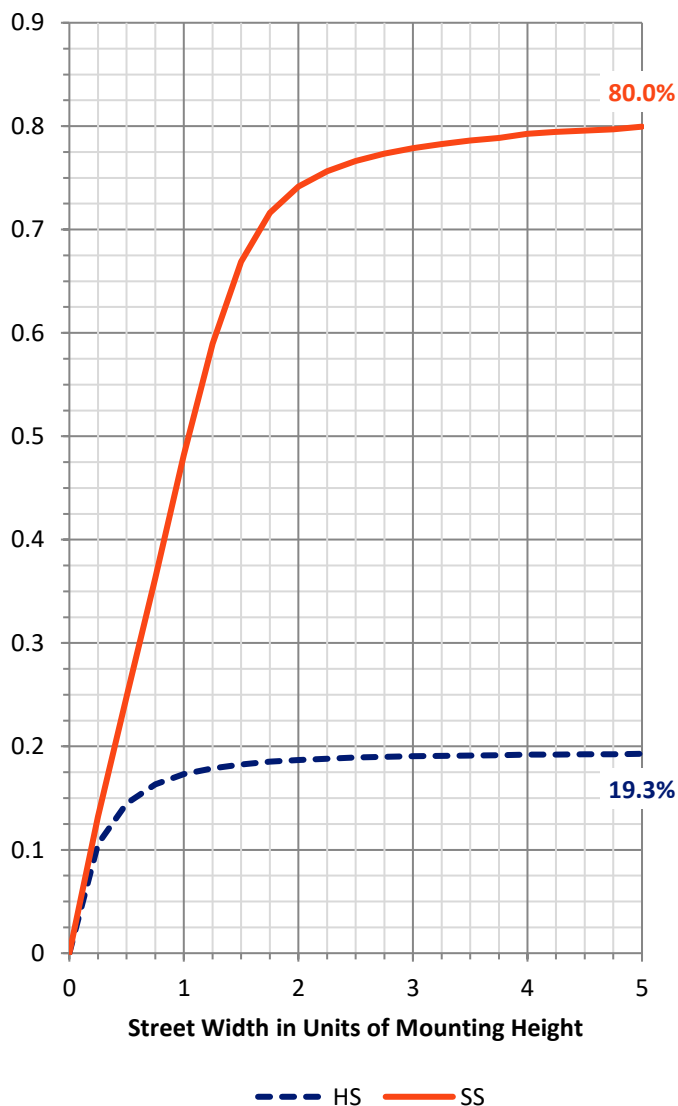
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2671.7	0.0	2671.7
	% Fixture	19.5	0.0	19.5
Street Side	Lumens	11046.3	0.0	11046.3
	% Fixture	80.5	0.0	80.5
Total	Lumens	13718.1	0.0	13718.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	277.1	2.0
10°-20°	663.6	4.8
20°-30°	896.2	6.5
30°-40°	1199.1	8.7
40°-50°	1763.3	12.9
50°-60°	2748.5	20.0
60°-70°	3385.8	24.7
70°-80°	2392.4	17.4
80°-90°	392.1	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°	13718.1	100.0
0°-180°	13718.1	100.0

Coefficient of Utilization

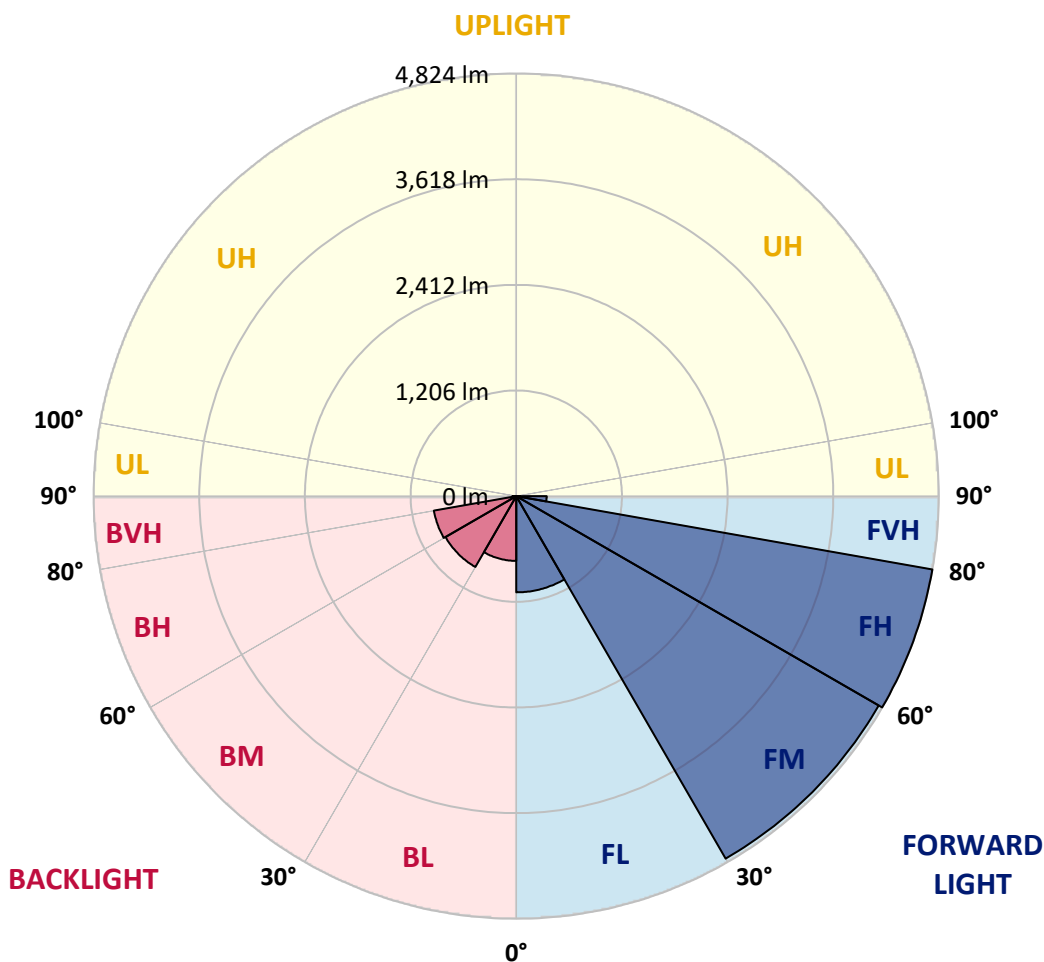


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1098.0	8.0			
FM (30°-60°)	4777.7	34.8			
FH (60°-80°)	4823.7	35.2			G2/5000
FVH (80°-90°)	346.9	2.5			G3/500
BL (0°-30°)	738.8	5.4	B2/1000		
BM (30°-60°)	933.3	6.8	B1/1000		
BH (60°-80°)	954.4	7.0	B2/1000		G2/1000
BVH (80°-90°)	45.2	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°	3175.7	3175.7	3175.7	3175.7	3175.7	3175.7	3175.7	3175.7	3175.7	3175.7	3175.7
2.5°	2957.0	2990.4	3002.5	3020.8	3067.9	3102.8	3124.0	3148.3	3177.2	3201.5	3216.7
5°	2750.4	2768.7	2797.5	2817.3	2876.5	2970.7	3034.4	3137.7	3134.7	3172.6	3230.4
7.5°	2550.0	2568.2	2581.9	2621.3	2706.4	2791.4	2908.4	3075.4	3063.3	3151.4	3241.0
10°	2425.4	2411.8	2416.3	2483.1	2550.0	2645.6	2793.0	2963.1	3007.1	3143.8	3271.4
12.5°	2308.5	2293.3	2329.7	2372.3	2454.3	2540.9	2717.0	2870.4	2937.2	3116.5	3285.0
15°	2235.6	2225.0	2270.5	2288.7	2385.9	2489.2	2613.8	2800.6	2873.5	3083.0	3263.8
17.5°	2194.6	2203.7	2220.4	2259.9	2322.2	2410.2	2546.9	2753.5	2785.4	3042.0	3259.2
20°	2202.2	2212.8	2214.3	2231.0	2273.6	2341.9	2481.6	2703.4	2724.6	3034.4	3271.4
22.5°	2262.9	2247.7	2253.8	2243.2	2255.3	2308.5	2431.5	2636.5	2718.5	2970.7	3245.5
25°	2354.0	2332.8	2329.7	2293.3	2270.5	2285.7	2422.4	2619.8	2673.0	2950.9	3244.0
27.5°	2515.0	2483.1	2483.1	2428.5	2335.8	2311.5	2396.6	2592.5	2639.6	2932.7	3209.1
30°	2669.9	2669.9	2671.5	2594.0	2490.7	2370.8	2407.2	2581.9	2612.2	2878.0	3162.0
32.5°	2858.3	2853.7	2846.1	2808.1	2648.7	2469.5	2458.8	2568.2	2583.4	2859.8	3148.3
35°	3042.0	3029.9	3089.1	3055.7	2893.2	2662.4	2512.0	2574.3	2607.7	2832.4	3105.8
37.5°	3180.2	3187.8	3310.9	3332.1	3192.4	2881.0	2662.4	2635.0	2666.9	2871.9	3105.8
40°	3359.5	3389.8	3505.3	3576.6	3491.6	3169.6	2900.8	2736.8	2759.5	2960.0	3172.6
42.5°	3594.9	3620.7	3768.0	3860.6	3836.3	3537.1	3136.2	2949.4	2931.2	3107.3	3272.9
45°	3906.2	3910.8	4059.6	4187.2	4237.3	3921.4	3509.8	3218.2	3203.0	3361.0	3456.7
47.5°	4276.8	4272.2	4364.9	4501.5	4636.7	4380.0	3939.6	3626.7	3572.1	3723.9	3761.9
50°	4635.2	4615.4	4636.7	4811.4	5071.1	4954.1	4462.1	4126.4	4071.7	4155.3	4220.6
52.5°	4832.6	4856.9	4799.2	5030.1	5532.8	5633.0	5154.6	4723.3	4676.2	4717.2	4831.1
55°	4694.4	4744.5	4706.6	4925.3	5734.8	6460.7	6050.7	5414.3	5353.6	5338.4	5525.2
57.5°	4106.7	4197.8	4205.4	4551.7	5664.9	7101.6	7311.2	6229.9	6138.7	5983.8	6176.7
60°	3152.9	3244.0	3313.9	3723.9	5066.5	7484.3	8772.2	7390.2	7089.5	6688.5	6804.0
62.5°	2209.8	2272.0	2341.9	2594.0	3906.2	7259.6	10035.8	9024.3	8470.0	7431.2	7575.5
65°	1609.9	1658.5	1729.8	1878.7	2399.6	6006.6	10622.1	10965.3	10439.8	8375.8	8357.6
67.5°	1212.0	1242.3	1336.5	1574.9	1663.0	3710.3	10014.6	13015.6	12590.3	9425.3	8986.4
70°	917.3	943.1	1031.2	1357.8	1553.7	1989.5	7900.5	13472.7	13594.2	10602.3	9408.6
72.5°	631.8	660.7	759.4	1131.5	1479.3	1578.0	4958.7	12239.5	12699.7	11086.8	8956.0
75°	387.3	407.0	464.7	858.1	1468.6	1543.0	2729.2	10029.8	10517.3	10243.9	7835.2
77.5°	273.4	271.9	282.5	502.7	1272.7	1552.2	1682.8	7349.2	7823.0	7549.7	5317.1
80°	199.0	200.5	211.1	300.7	864.2	1578.0	1325.9	4922.2	5063.5	3936.6	2097.4
82.5°	120.0	126.1	151.9	203.5	519.4	1424.6	1225.6	2735.2	2559.1	1263.6	577.1
85°	63.8	63.8	89.6	129.1	276.4	1063.1	1180.1	1301.6	1090.5	391.8	214.1
87.5°	15.2	15.2	25.8	51.6	110.9	508.8	804.9	517.9	414.6	132.1	88.1
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°	3175.7	3175.7	3175.7	3175.7	3175.7	3175.7	3175.7	3175.7	3175.7	3175.7	3175.7
2.5°	3210.6	3192.4	3215.2	3169.6	3133.2	3134.7	3078.5	3075.4	3067.9	3028.4	3042.0
5°	3247.1	3231.9	3206.1	3155.9	3075.4	2995.0	2946.4	2884.1	2858.3	2844.6	2850.7
7.5°	3282.0	3254.7	3180.2	3110.4	2985.8	2834.0	2745.9	2662.4	2556.0	2543.9	2522.6
10°	3291.1	3233.4	3137.7	2988.9	2823.3	2654.8	2454.3	2299.4	2217.4	2153.6	2129.3
12.5°	3277.4	3253.1	3069.4	2878.0	2627.4	2363.2	2129.3	1910.6	1758.7	1679.7	1658.5
15°	3275.9	3233.4	2993.4	2709.4	2389.0	2044.2	1711.6	1448.9	1289.4	1224.1	1224.1
17.5°	3277.4	3175.7	2903.8	2539.3	2108.0	1641.8	1275.7	1060.1	972.0	962.9	970.5
20°	3247.1	3133.2	2809.7	2338.9	1755.7	1233.2	926.4	838.3	838.3	850.5	855.1
22.5°	3219.7	3069.4	2660.8	2091.3	1397.2	893.0	753.3	727.5	756.3	777.6	786.7
25°	3181.8	3016.2	2509.0	1834.6	1063.1	719.9	654.6	660.7	688.0	726.0	722.9
27.5°	3127.1	2923.6	2328.2	1537.0	791.3	621.2	604.5	607.5	636.4	653.1	650.0
30°	3064.8	2829.4	2161.2	1240.8	627.2	569.5	568.0	575.6	580.2	589.3	587.8
32.5°	2985.8	2704.9	1983.5	964.4	565.0	540.7	534.6	530.0	534.6	533.1	528.5
35°	2929.6	2638.1	1802.7	735.1	530.0	514.9	510.3	502.7	496.6	487.5	486.0
37.5°	2914.5	2571.2	1612.9	599.9	502.7	495.1	479.9	466.3	458.7	454.1	451.1
40°	2905.3	2527.2	1427.6	527.0	479.9	472.3	454.1	435.9	428.3	423.7	425.2
42.5°	2937.2	2502.9	1239.3	490.6	460.2	446.5	426.8	405.5	404.0	400.9	405.5
45°	3049.6	2533.3	1064.6	464.7	440.4	417.7	391.8	381.2	379.7	376.6	379.7
47.5°	3304.8	2609.2	915.8	448.0	419.2	399.4	372.1	356.9	355.4	353.9	353.9
50°	3657.1	2843.1	791.3	428.3	405.5	378.2	352.3	335.6	332.6	326.5	326.5
52.5°	4209.9	3236.4	716.8	417.7	381.2	358.4	331.1	312.9	305.3	299.2	299.2
55°	4832.6	3723.9	703.2	399.4	355.4	334.1	309.8	291.6	284.0	276.4	273.4
57.5°	5541.9	4369.4	800.4	387.3	337.2	309.8	282.5	265.8	259.7	252.1	249.1
60°	6202.5	5013.4	1102.6	369.1	320.5	287.0	259.7	243.0	235.4	227.8	227.8
62.5°	6966.5	5810.7	1614.4	369.1	305.3	262.7	235.4	223.3	218.7	211.1	209.6
65°	7870.1	6635.4	1988.0	391.8	300.7	241.5	212.6	200.5	195.9	191.4	189.8
67.5°	8558.1	7109.2	1710.1	452.6	320.5	223.3	189.8	182.2	179.2	174.7	171.6
70°	8631.0	6820.7	1031.2	489.0	340.2	205.0	170.1	162.5	162.5	157.9	154.9
72.5°	7976.4	6052.2	694.1	435.9	308.3	183.8	150.4	144.3	141.2	138.2	136.7
75°	6674.9	5133.3	548.3	347.8	236.9	151.9	130.6	124.5	120.0	118.5	115.4
77.5°	4483.3	3336.7	405.5	271.9	174.7	123.0	109.3	103.3	98.7	97.2	92.6
80°	1722.3	1271.2	261.2	197.4	123.0	97.2	86.6	80.5	77.5	72.9	69.9
82.5°	507.3	411.6	145.8	121.5	79.0	66.8	62.3	57.7	53.2	48.6	47.1
85°	209.6	188.3	89.6	63.8	48.6	39.5	36.4	31.9	27.3	24.3	21.3
87.5°	97.2	80.5	41.0	24.3	16.7	9.1	4.6	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)