

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: P478588

Luminaire Tested: **IFLD-S-SA3D-750-U-T4W**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P478588
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3D-750-U-T4W
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4W distribution lens
Light Source: (48) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

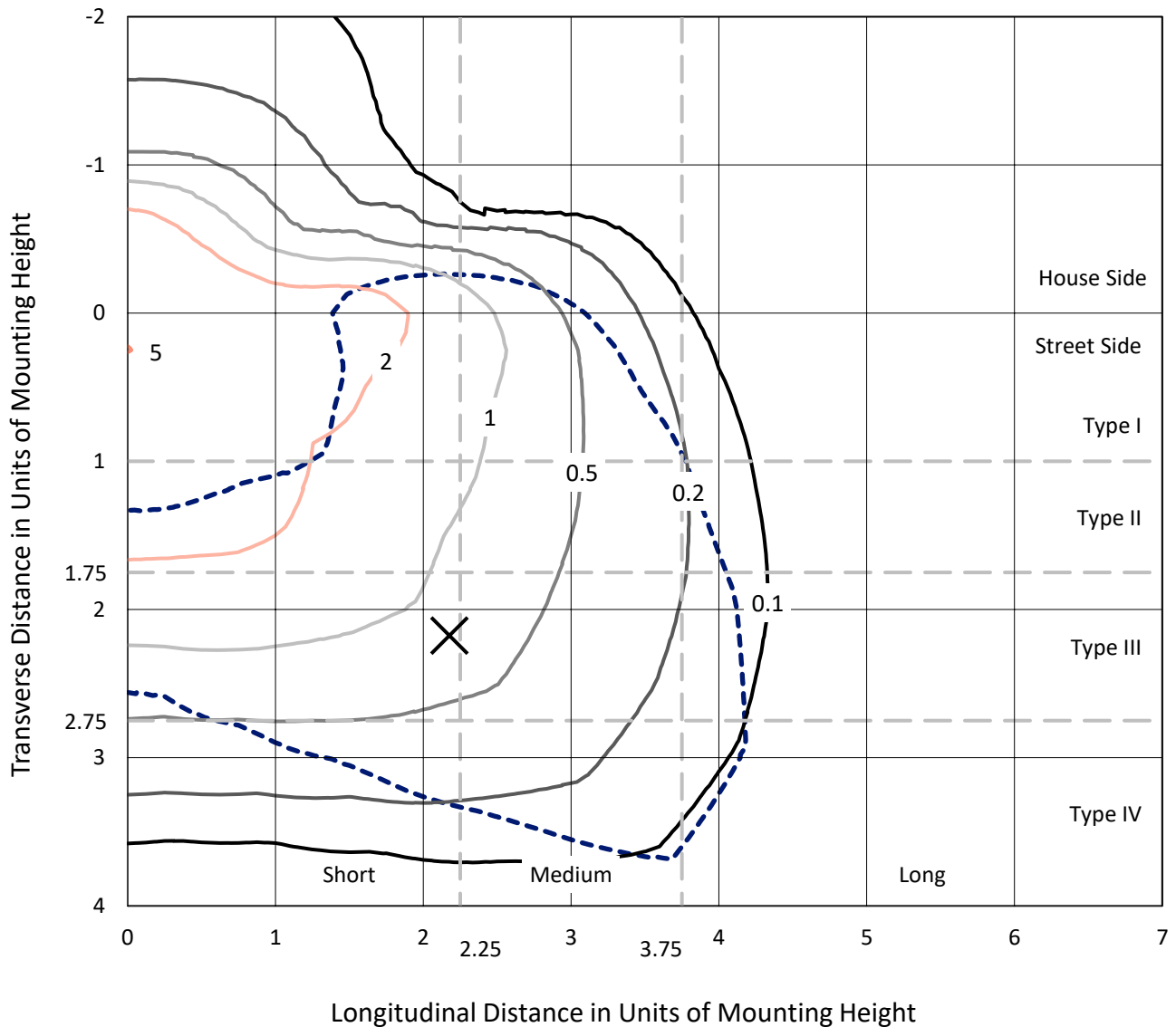
Lumens per Lamp: N/A
Luminaire Lumens: 24097.7 lumens
Efficiency: N/A
Efficacy: 130.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 184.1
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

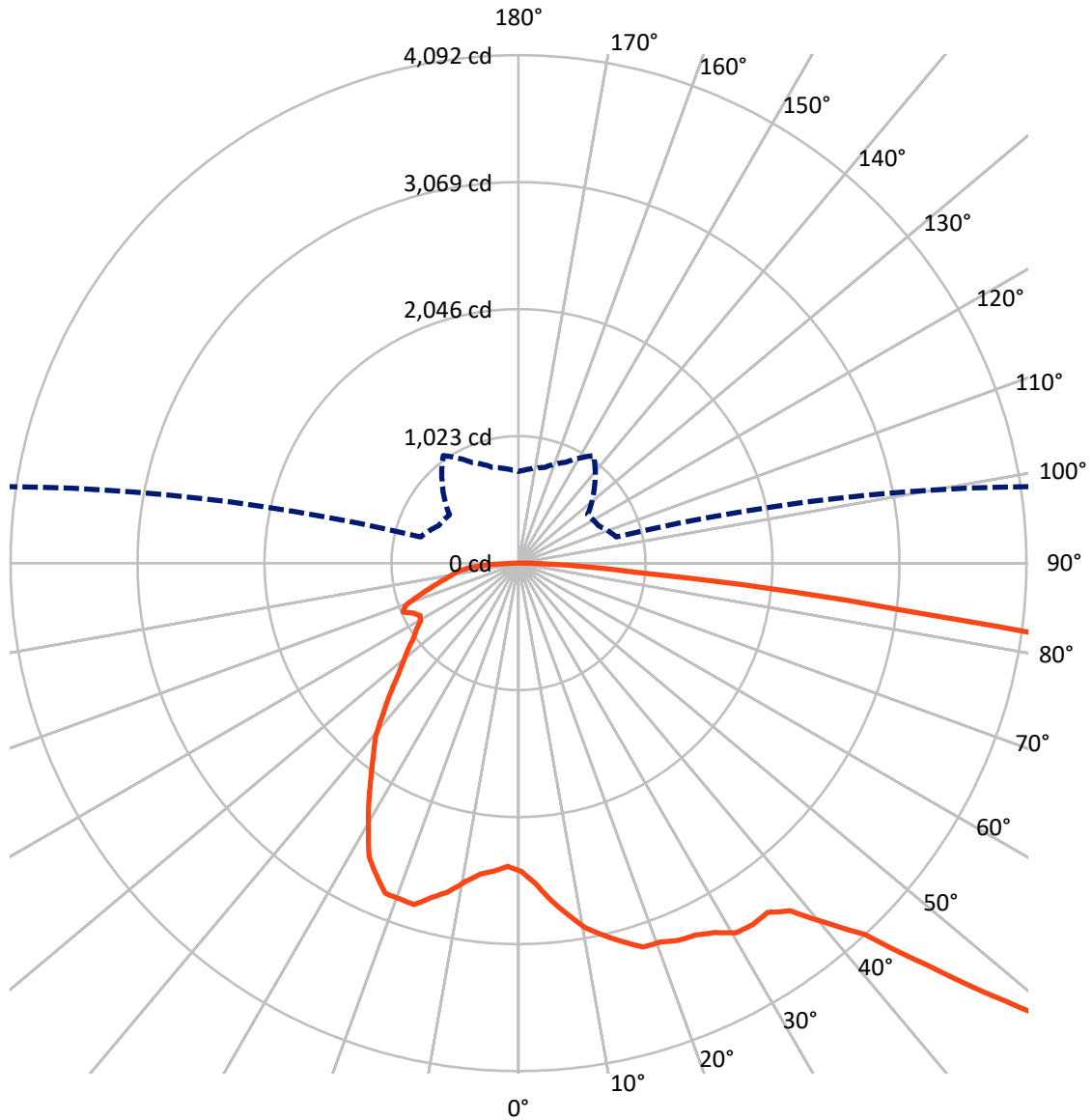
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.1 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 72-Deg Vertical

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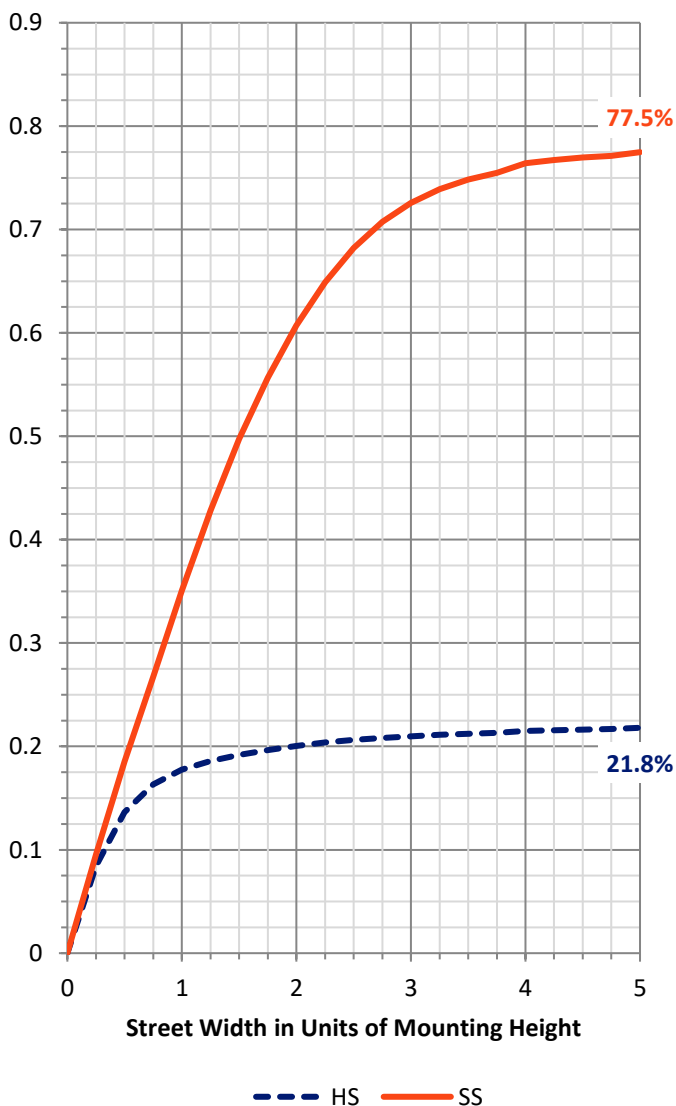
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5364.3	0.0	5364.3
	% Fixture	22.3	0.0	22.3
Street Side	Lumens	18733.4	0.0	18733.4
	% Fixture	77.7	0.0	77.7
Total	Lumens	24097.7	0.0	24097.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	253.9	1.1
10°-20°	844.9	3.5
20°-30°	1426.8	5.9
30°-40°	1974.4	8.2
40°-50°	2824.2	11.7
50°-60°	4555.1	18.9
60°-70°	6718.1	27.9
70°-80°	4878.5	20.2
80°-90°	621.9	2.6
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°	24097.7	100.0
0°-180°	24097.7	100.0

Coefficient of Utilization



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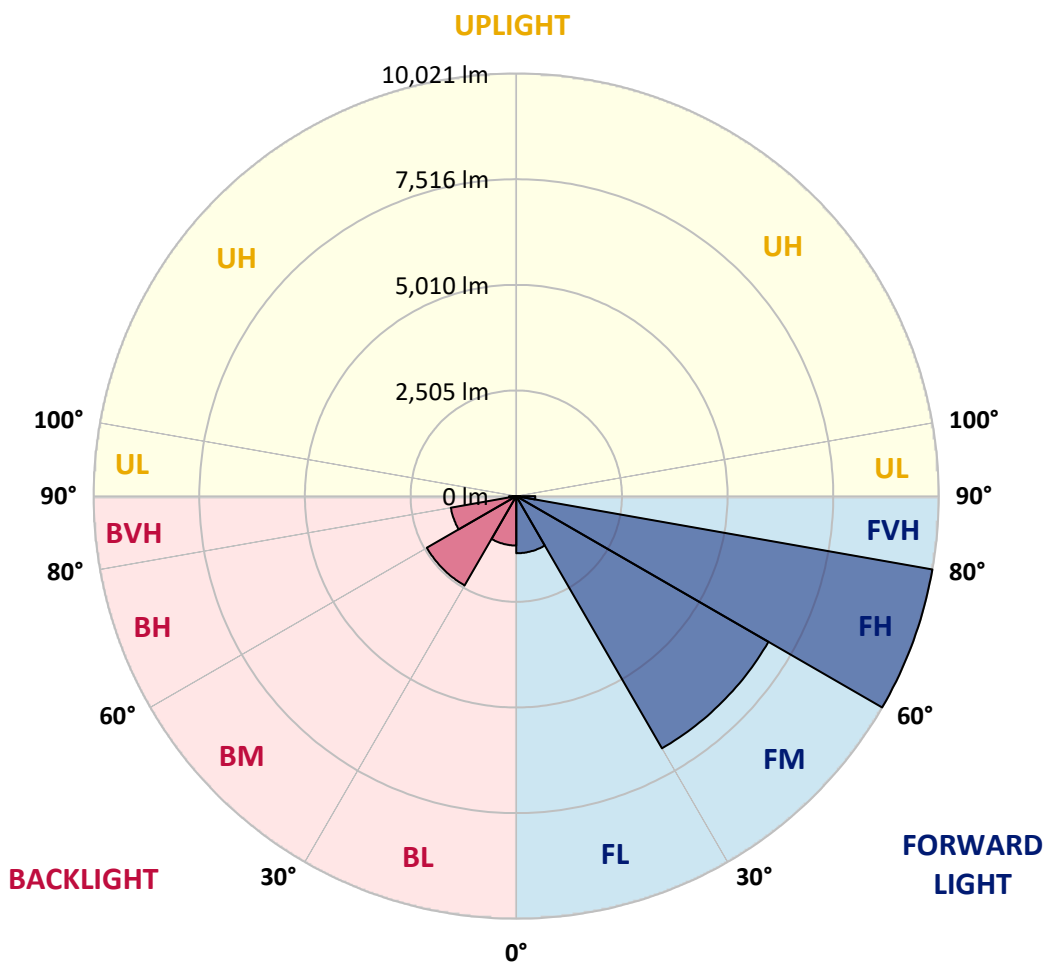
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1354.3	5.6			
FM	(30°-60°)	6905.6	28.7			
FH	(60°-80°)	10020.9	41.6			G4/12000
FVH	(80°-90°)	452.6	1.9			G3/500
BL	(0°-30°)	1171.3	4.9	B3/2500		
BM	(30°-60°)	2448.1	10.2	B2/2500		
BH	(60°-80°)	1575.7	6.5	B3/2500		G3/2500
BVH	(80°-90°)	169.2	0.7			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	2481.6	2481.6	2481.6	2481.6	2481.6	2481.6	2481.6	2481.6	2481.6	2481.6	2481.6
2.5°	2614.2	2629.7	2614.2	2611.6	2585.6	2567.4	2583.0	2559.6	2533.6	2523.2	2499.8
5°	2853.2	2855.8	2827.2	2829.8	2775.3	2718.1	2728.5	2658.3	2583.0	2554.4	2507.6
7.5°	3097.5	3068.9	3027.3	3014.3	2928.6	2866.2	2858.4	2796.1	2679.1	2614.2	2549.2
10°	3256.0	3266.4	3198.8	3141.7	3068.9	2993.5	2990.9	2874.0	2806.5	2710.3	2627.2
12.5°	3396.3	3398.9	3341.8	3250.8	3159.9	3066.3	3079.3	3027.3	2913.0	2822.0	2738.9
15°	3505.5	3489.9	3427.5	3344.4	3248.2	3175.4	3167.7	3123.5	3027.3	2952.0	2814.2
17.5°	3536.6	3528.9	3466.5	3378.1	3284.6	3230.0	3250.8	3178.0	3139.1	3071.5	2939.0
20°	3476.9	3458.7	3448.3	3349.6	3282.0	3276.8	3258.6	3274.2	3209.2	3146.9	3050.7
22.5°	3367.7	3359.9	3354.7	3276.8	3245.6	3269.0	3300.2	3323.6	3313.2	3253.4	3144.3
25°	3256.0	3292.4	3258.6	3222.2	3266.4	3326.2	3318.4	3393.7	3393.7	3375.5	3284.6
27.5°	3334.0	3310.6	3284.6	3266.4	3282.0	3375.5	3370.3	3461.3	3495.1	3461.3	3357.3
30°	3528.9	3505.5	3430.1	3349.6	3328.8	3430.1	3456.1	3536.6	3552.2	3469.1	3380.7
32.5°	3895.3	3882.3	3762.7	3526.3	3398.9	3456.1	3469.1	3560.0	3547.0	3495.1	3458.7
35°	4438.4	4394.2	4227.9	3827.7	3547.0	3489.9	3456.1	3528.9	3578.2	3552.2	3518.5
37.5°	5033.4	4984.1	4778.8	4272.0	3814.7	3580.8	3554.8	3614.6	3671.8	3658.8	3588.6
40°	5602.5	5602.5	5418.0	4828.1	4212.3	3801.7	3806.9	3739.3	3791.3	3767.9	3780.9
42.5°	6163.8	6143.0	6067.7	5480.4	4638.4	4170.7	4087.5	3918.6	4012.2	4004.4	4022.6
45°	6732.9	6717.3	6696.5	6088.4	5249.1	4669.6	4625.4	4321.4	4407.2	4370.8	4448.7
47.5°	7187.6	7205.8	7205.8	6766.7	5901.3	5334.9	5269.9	4789.2	4952.9	4971.1	4989.2
50°	7574.8	7582.6	7574.8	7413.7	6628.9	6096.2	5963.7	5475.2	5638.9	5781.8	5948.1
52.5°	8110.1	8120.5	8084.1	8021.8	7616.4	6896.6	6748.5	6205.4	6540.6	6691.3	6990.1
55°	8770.2	8692.2	8624.6	8671.4	8564.9	7777.5	7624.2	6959.0	7463.1	7663.2	8260.8
57.5°	8892.3	8959.9	9131.4	9503.0	9656.3	8635.0	8546.7	7884.0	8505.1	8679.2	9677.1
60°	9323.7	9211.9	9632.9	10438.4	10609.9	9752.4	9661.5	8897.5	9541.9	9723.8	10984.1
62.5°	9606.9	9601.7	10225.4	11181.6	11571.4	10911.4	10726.9	10215.0	10661.9	10838.6	12408.2
65°	9523.7	9599.1	10706.1	11618.2	12374.4	12228.9	12122.3	11347.9	11937.8	11922.2	13335.8
67.5°	8765.0	8978.0	10402.1	11932.6	13569.7	13834.8	13801.0	12940.9	12974.6	12644.6	13749.0
70°	7712.5	7639.8	9115.8	11605.2	14167.4	15739.5	15731.7	14125.8	13907.5	12803.1	12564.1
72°	5924.7	5844.2	7057.7	9965.5	13853.0	16500.9	16734.8	14947.0	13897.1	12145.7	10378.7
72.5°	5379.0	5308.9	6517.2	9380.8	13504.7	16698.4	16589.2	14978.1	13788.0	11836.5	9695.3
75°	2476.4	2395.9	3256.0	5742.8	10534.6	14796.2	15167.8	14016.7	12041.8	9422.4	5807.8
77.5°	738.0	714.6	1047.2	2317.9	6122.2	10901.0	11043.9	10576.2	8406.4	5160.8	2154.2
80°	410.6	413.2	540.5	867.9	2692.1	6301.5	6816.0	6532.8	4123.9	1704.7	717.2
82.5°	228.7	241.7	337.8	514.5	1236.9	2892.2	3113.1	3001.3	1491.6	800.4	392.4
85°	119.5	124.7	176.7	275.4	701.6	914.7	940.7	1008.2	774.4	545.7	210.5
87.5°	46.8	46.8	65.0	114.3	259.9	283.2	254.7	309.2	444.4	353.4	103.9
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°	2481.6	2481.6	2481.6	2481.6	2481.6	2481.6	2481.6	2481.6	2481.6	2481.6	2481.6
2.5°	2520.6	2499.8	2497.2	2463.4	2473.8	2445.3	2447.8	2442.7	2445.3	2440.1	2427.1
5°	2507.6	2492.0	2447.8	2476.4	2450.4	2486.8	2515.4	2505.0	2512.8	2510.2	2512.8
7.5°	2525.8	2505.0	2499.8	2484.2	2507.6	2523.2	2546.6	2611.6	2606.4	2614.2	2629.7
10°	2580.4	2557.0	2541.4	2564.8	2551.8	2601.2	2627.2	2660.9	2720.7	2723.3	2692.1
12.5°	2686.9	2671.3	2640.1	2645.3	2689.5	2705.1	2720.7	2741.5	2780.5	2772.7	2801.3
15°	2809.1	2775.3	2757.1	2751.9	2762.3	2780.5	2777.9	2798.7	2819.4	2837.6	2829.8
17.5°	2897.4	2853.2	2858.4	2884.4	2881.8	2876.6	2842.8	2832.4	2842.8	2853.2	2848.0
20°	2988.4	2993.5	2954.6	2931.2	2920.8	2868.8	2842.8	2811.6	2780.5	2796.1	2819.4
22.5°	3102.7	3079.3	3022.1	2952.0	2900.0	2868.8	2788.3	2733.7	2733.7	2749.3	2741.5
25°	3232.6	3183.2	3084.5	2957.2	2892.2	2759.7	2702.5	2694.7	2673.9	2697.3	2707.7
27.5°	3334.0	3289.8	3154.7	2939.0	2759.7	2653.1	2619.4	2609.0	2642.7	2645.3	2686.9
30°	3375.5	3362.5	3165.1	2892.2	2624.6	2453.0	2432.3	2479.0	2515.4	2570.0	2572.6
32.5°	3430.1	3435.3	3180.6	2783.1	2447.8	2276.3	2245.2	2302.3	2406.3	2450.4	2484.2
35°	3521.1	3547.0	3167.7	2647.9	2260.8	2097.0	2091.8	2107.4	2208.8	2286.7	2330.9
37.5°	3679.6	3674.4	3165.1	2486.8	2112.6	1941.1	1899.6	1904.7	1972.3	2037.3	2029.5
40°	3892.7	3871.9	3157.3	2276.3	1920.3	1808.6	1738.4	1712.5	1707.3	1689.1	1694.3
42.5°	4183.7	4142.1	3154.7	2063.3	1746.2	1626.7	1577.3	1509.8	1460.4	1366.8	1372.0
45°	4589.1	4516.3	3087.1	1863.2	1574.7	1476.0	1400.6	1351.3	1244.7	1127.8	1127.8
47.5°	5215.3	4978.9	3089.7	1642.3	1408.4	1327.9	1275.9	1190.1	1075.8	982.3	971.9
50°	6137.8	5597.3	3001.3	1468.2	1273.3	1218.7	1164.2	1065.4	956.3	891.3	899.1
52.5°	7328.0	6519.8	2998.7	1312.3	1166.8	1127.8	1068.0	979.7	899.1	857.5	841.9
55°	8746.8	7741.1	3092.3	1184.9	1057.6	1036.8	1010.8	938.1	860.1	823.7	821.1
57.5°	10199.4	8933.9	3243.0	1094.0	964.1	979.7	961.5	904.3	841.9	800.4	795.2
60°	11490.9	9879.7	2939.0	984.9	880.9	914.7	940.7	891.3	857.5	854.9	836.7
62.5°	12465.3	10285.1	2234.8	901.7	836.7	899.1	969.3	1000.4	984.9	1005.6	1008.2
65°	12821.3	10040.9	1538.4	857.5	803.0	935.5	1091.4	1081.0	990.1	951.1	971.9
67.5°	12322.4	9050.8	1140.8	805.6	779.6	1010.8	1161.6	1031.6	893.9	888.7	873.1
70°	10597.0	7671.0	930.3	751.0	740.6	969.3	1130.4	956.3	841.9	808.2	792.6
72°	8442.7	5974.1	815.9	712.0	678.2	865.3	1057.6	896.5	797.8	756.2	738.0
72.5°	7707.3	5537.5	800.4	693.8	665.2	841.9	1021.2	878.3	787.4	751.0	722.4
75°	4227.9	2835.0	704.2	636.6	561.3	727.6	945.9	823.7	743.2	691.2	686.0
77.5°	1572.1	1099.2	608.1	563.9	485.9	628.9	860.1	782.2	675.6	610.7	597.7
80°	602.9	579.5	496.3	475.5	408.0	550.9	792.6	701.6	574.3	509.3	488.5
82.5°	366.4	337.8	376.8	371.6	311.8	501.5	745.8	657.4	509.3	413.2	400.2
85°	200.1	200.1	262.5	252.1	218.3	400.2	563.9	436.6	322.2	265.1	270.3
87.5°	88.4	103.9	140.3	132.5	119.5	226.1	275.4	231.3	161.1	109.1	116.9
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)