

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: P483948

Luminaire Tested: **IFLD-M-SA4A-730-U-SL2-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P483948
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4A-730-U-SL2-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL2 distribution lens with House Side Shield
Light Source: (64) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

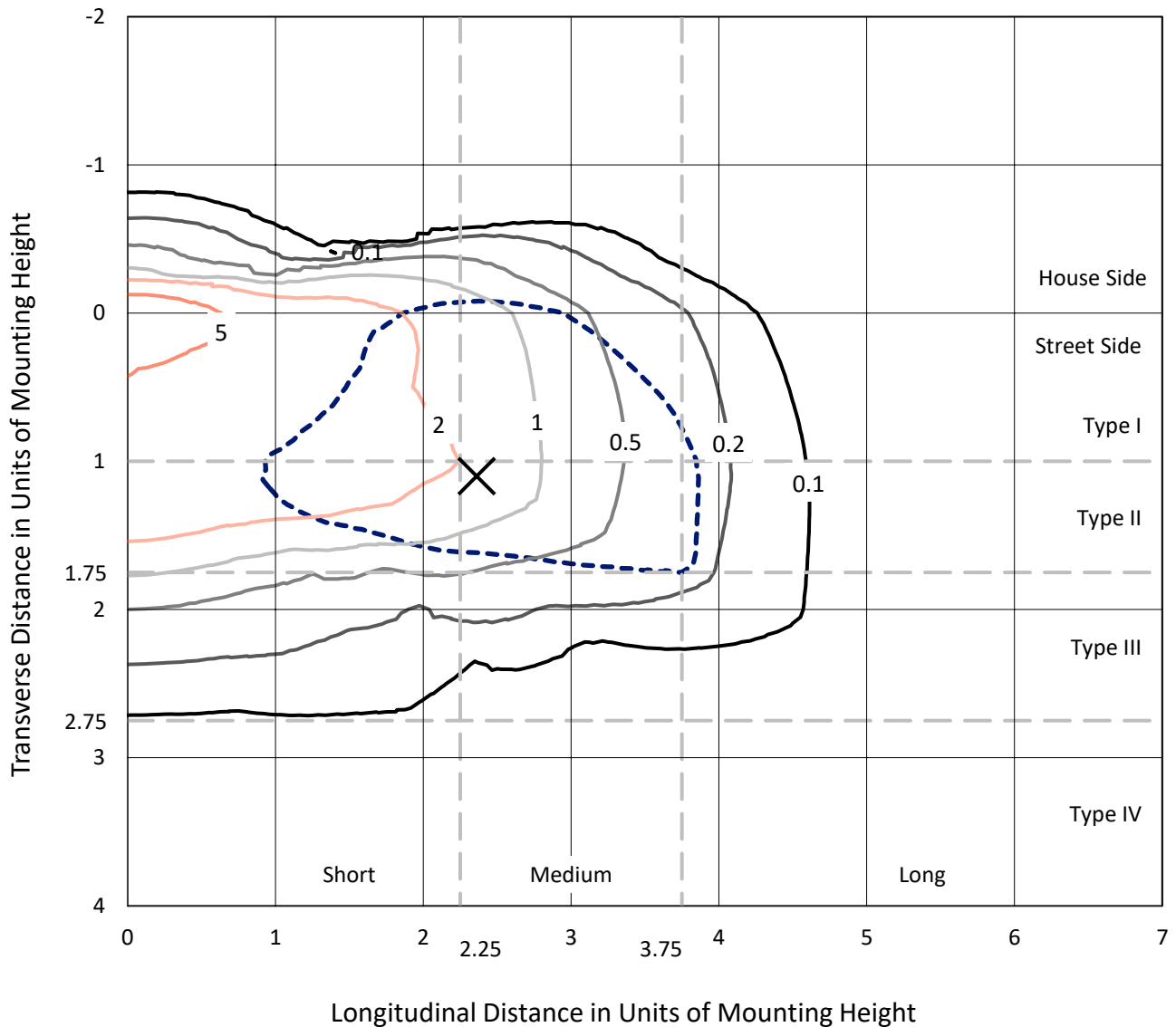
Lumens per Lamp: N/A
Luminaire Lumens: 13840.8 lumens
Efficiency: N/A
Efficacy: 107.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G2

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

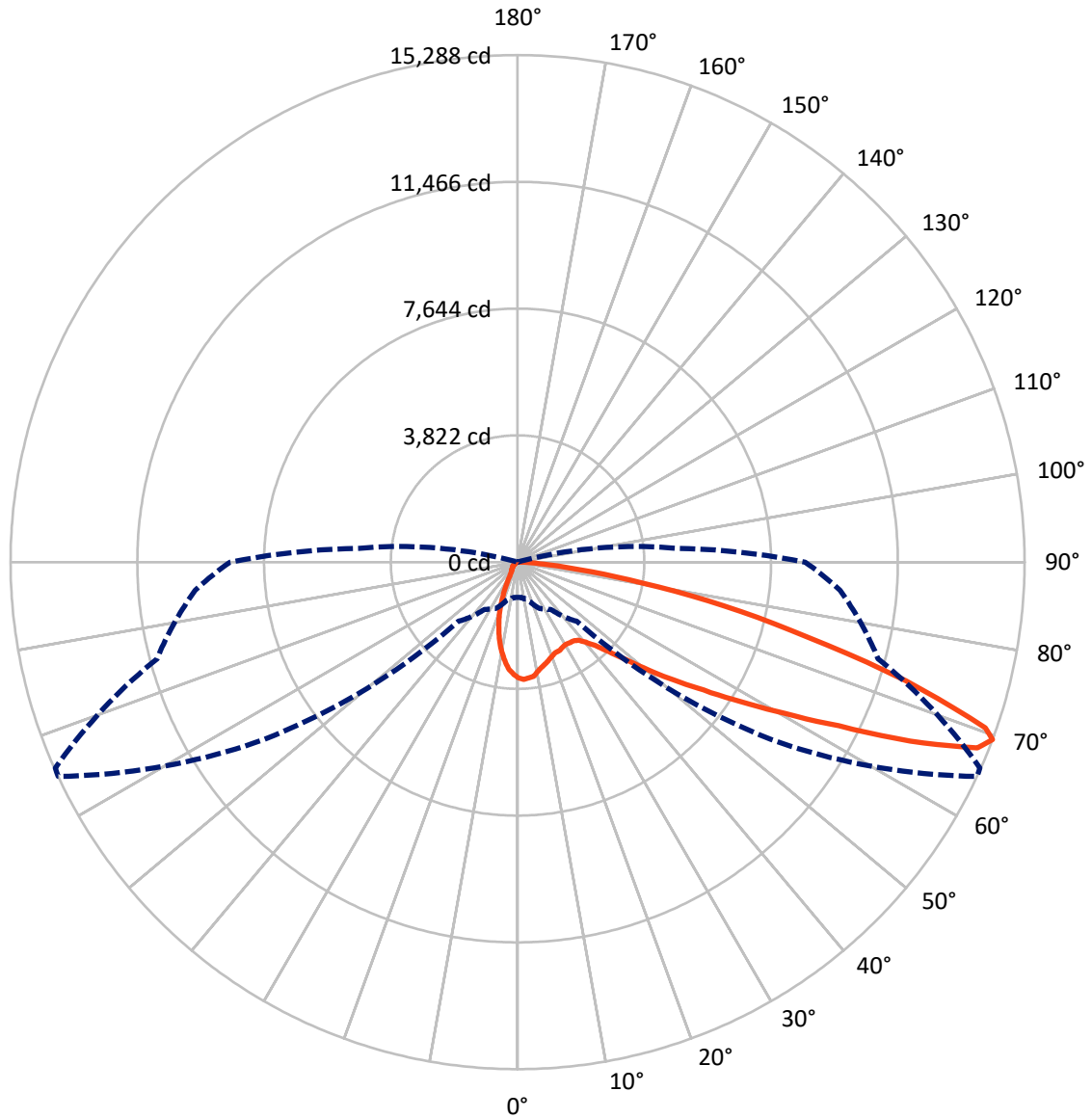
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 8.7 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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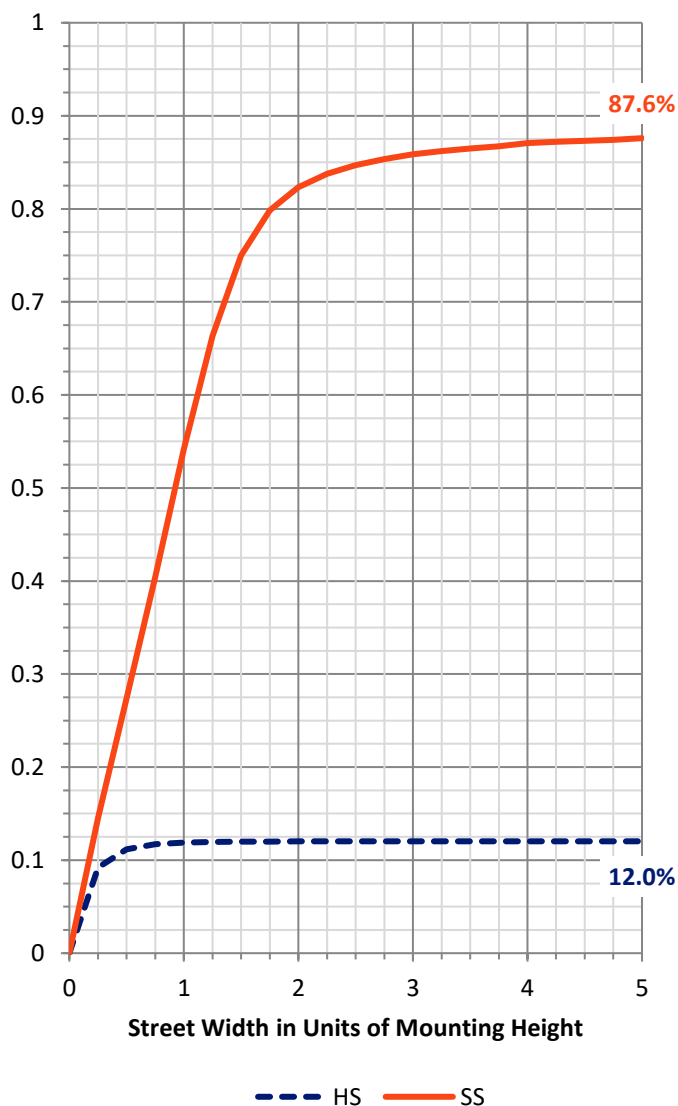
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1679.0	0.0	1679.0
	% Fixture	12.1	0.0	12.1
Street Side	Lumens	12161.8	0.0	12161.8
	% Fixture	87.9	0.0	87.9
Total	Lumens	13840.8	0.0	13840.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	285.6	2.1
10°-20°	624.8	4.5
20°-30°	869.9	6.3
30°-40°	1232.7	8.9
40°-50°	1942.7	14.0
50°-60°	3152.3	22.8
60°-70°	3520.5	25.4
70°-80°	1982.4	14.3
80°-90°	230.0	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°	13840.8	100.0
0°-180°	13840.8	100.0

Coefficient of Utilization



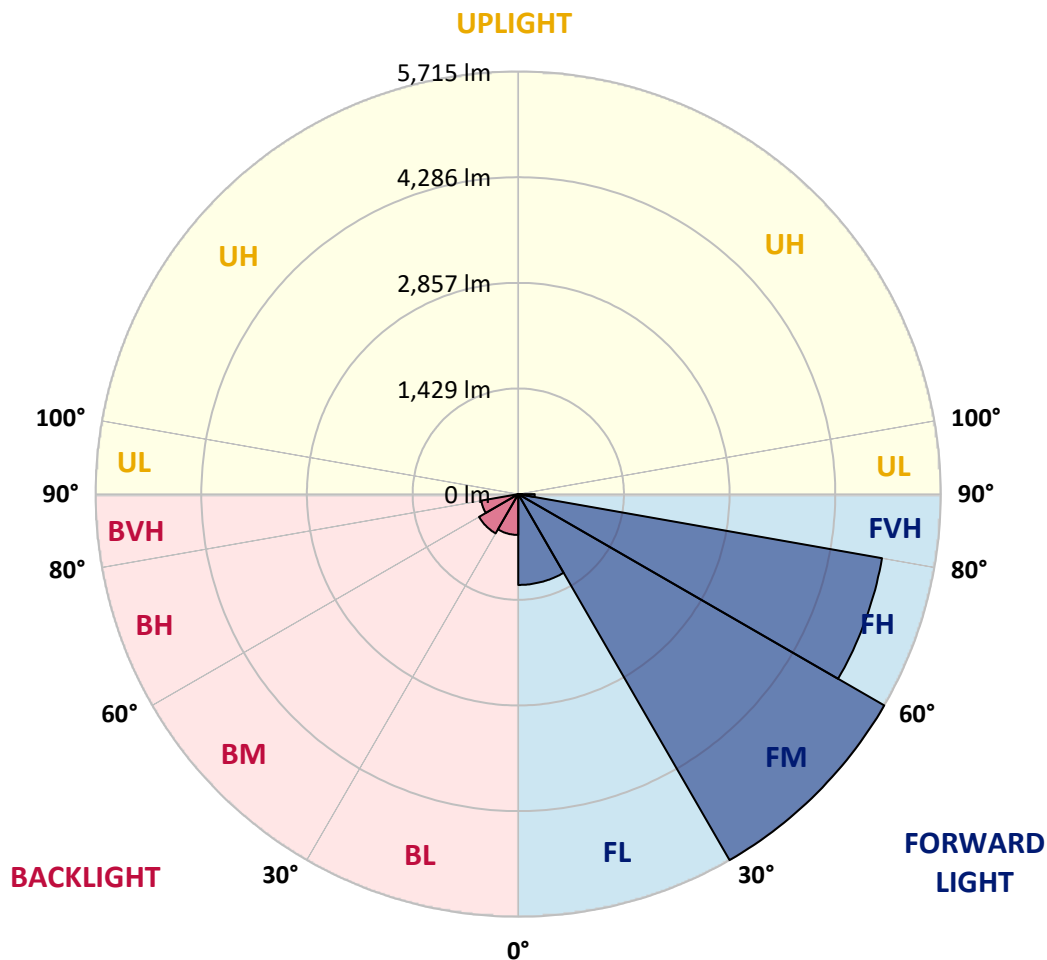
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1228.2	8.9			
FM (30°-60°)	5715.0	41.3			
FH (60°-80°)	4994.9	36.1			G2/5000
FVH (80°-90°)	223.7	1.6			G2/225
BL (0°-30°)	552.0	4.0	B2/1000		
BM (30°-60°)	612.6	4.4	B1/1000		
BH (60°-80°)	508.0	3.7	B2/1000		G2/1000
BVH (80°-90°)	6.3	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	3489.6	3489.6	3489.6	3489.6	3489.6	3489.6	3489.6	3489.6	3489.6	3489.6	3489.6
2.5°	3360.7	3386.9	3394.4	3420.5	3433.6	3489.6	3521.3	3540.0	3530.7	3551.2	3553.1
5°	3121.8	3106.8	3146.0	3174.0	3233.8	3330.9	3429.8	3506.4	3541.9	3575.5	3569.9
7.5°	2866.0	2858.5	2897.7	2961.2	3015.3	3133.0	3291.7	3480.2	3472.8	3554.9	3579.2
10°	2690.5	2697.9	2711.0	2774.5	2854.8	2974.3	3172.2	3347.7	3386.9	3560.5	3609.1
12.5°	2529.9	2543.0	2567.2	2632.6	2725.9	2849.2	3041.5	3246.9	3306.6	3528.8	3625.9
15°	2477.6	2447.7	2496.3	2544.8	2641.9	2752.1	2914.5	3170.3	3196.4	3491.4	3653.9
17.5°	2434.7	2416.0	2438.4	2477.6	2580.3	2669.9	2823.0	3088.2	3136.7	3476.5	3650.1
20°	2447.7	2430.9	2440.3	2470.2	2516.8	2600.8	2742.7	3009.7	3062.0	3407.4	3644.5
22.5°	2485.1	2498.2	2481.4	2488.8	2503.8	2546.7	2699.8	2953.7	2998.5	3394.4	3676.3
25°	2653.1	2630.7	2608.3	2599.0	2511.2	2529.9	2686.7	2950.0	2981.7	3347.7	3650.1
27.5°	2828.6	2810.0	2800.6	2746.5	2627.0	2571.0	2688.6	2897.7	2940.7	3329.0	3618.4
30°	3041.5	3065.8	3028.4	2963.1	2796.9	2658.7	2709.1	2871.6	2931.3	3258.1	3597.9
32.5°	3265.5	3278.6	3297.3	3248.7	3034.0	2791.3	2770.8	2895.8	2899.6	3258.1	3551.2
35°	3519.5	3500.8	3549.3	3553.1	3364.5	3026.5	2888.4	2912.6	2951.9	3243.1	3534.4
37.5°	3737.9	3769.6	3825.7	3915.3	3721.1	3358.9	3071.4	2991.1	3007.9	3312.2	3547.5
40°	3976.9	4008.6	4135.6	4225.2	4115.1	3732.3	3349.5	3174.0	3187.1	3414.9	3614.7
42.5°	4240.1	4301.8	4453.0	4609.8	4580.0	4206.5	3708.0	3442.9	3437.3	3670.7	3752.8
45°	4596.8	4678.9	4843.2	5024.3	5050.5	4749.9	4186.0	3844.3	3863.0	4004.9	4038.5
47.5°	5093.4	5089.7	5250.2	5451.9	5603.1	5313.7	4757.3	4383.9	4382.0	4533.3	4462.3
50°	5573.2	5575.1	5618.1	5851.4	6243.5	6096.0	5465.0	5100.9	5080.3	5155.0	5041.1
52.5°	5795.4	5769.3	5737.5	6019.5	6736.4	7081.8	6361.2	5913.1	5896.2	5851.4	5821.6
55°	5562.0	5571.4	5569.5	5862.6	6996.0	8121.8	7511.3	6807.4	6779.4	6639.3	6680.4
57.5°	4813.3	4783.5	4848.8	5306.3	6699.1	8831.3	9156.2	7935.1	7862.3	7397.4	7304.0
60°	3582.9	3592.3	3646.4	4186.0	5961.6	8980.7	10730.1	9258.9	8945.2	7931.4	7802.5
62.5°	2501.9	2483.2	2503.8	2806.2	4262.6	8383.2	11794.4	10868.3	10565.8	8538.2	8463.5
65°	1790.5	1766.3	1848.4	2033.3	2559.8	6409.7	11945.6	13011.7	12741.0	9507.2	9327.9
67.5°	1288.3	1284.6	1379.8	1715.8	1818.5	3691.2	10825.3	14953.5	14789.2	10657.3	9854.5
69°	1066.1	1068.0	1159.5	1536.6	1736.4	2520.6	9314.9	15287.7	15257.8	11251.0	9755.5
70°	929.8	937.3	1043.7	1430.2	1702.8	2072.5	8030.3	14959.1	14929.2	11366.8	9428.8
72.5°	573.2	578.8	718.8	1146.4	1618.8	1691.6	4802.1	12238.7	12341.4	10836.6	8123.7
75°	274.5	276.3	377.2	829.0	1560.9	1603.8	2572.8	9031.1	9247.7	8749.2	6348.1
77.5°	145.6	145.6	181.1	440.6	1264.0	1508.6	1527.3	6370.5	6549.7	5532.2	3609.1
80°	72.8	74.7	110.2	229.7	784.2	1478.7	1193.1	3799.5	3896.6	2257.3	1124.0
82.5°	28.0	29.9	52.3	138.2	407.0	1249.1	1047.4	1869.0	1844.7	528.4	274.5
85°	3.7	3.7	18.7	82.2	173.6	550.8	864.5	780.4	754.3	115.8	132.6
87.5°	0.0	0.0	3.7	24.3	52.3	160.6	334.2	214.7	239.0	31.7	65.3
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°	3489.6	3489.6	3489.6	3489.6	3489.6	3489.6	3489.6	3489.6	3489.6	3489.6	3489.6
2.5°	3543.7	3504.5	3444.8	3386.9	3325.3	3250.6	3168.4	3138.6	3086.3	3082.6	3112.4
5°	3540.0	3476.5	3372.0	3248.7	3073.2	2940.7	2796.9	2692.3	2612.0	2559.8	2572.8
7.5°	3558.7	3482.1	3301.0	3035.9	2810.0	2546.7	2324.5	2171.4	2031.4	1962.3	1954.8
10°	3528.8	3426.1	3161.0	2789.4	2457.1	2089.3	1764.4	1559.0	1349.9	1273.4	1277.1
12.5°	3545.6	3401.8	3009.7	2535.5	2078.1	1600.1	1211.7	931.7	735.6	672.1	664.7
15°	3556.8	3349.5	2864.1	2231.2	1658.0	1090.4	702.0	528.4	466.8	455.6	453.7
17.5°	3513.9	3286.1	2658.7	1930.6	1228.5	662.8	466.8	431.3	420.1	412.6	408.9
20°	3512.0	3248.7	2481.4	1622.5	819.6	451.8	403.3	390.2	373.4	367.8	367.8
22.5°	3480.2	3170.3	2268.5	1284.6	522.8	388.4	362.2	341.7	323.0	315.5	313.7
25°	3470.9	3078.8	2068.7	965.3	397.7	347.3	321.1	291.3	268.9	257.7	252.1
27.5°	3444.8	3000.4	1867.1	679.6	347.3	309.9	276.3	244.6	218.4	201.6	199.8
30°	3351.4	2918.3	1643.0	470.5	315.5	274.5	237.1	199.8	173.6	162.4	158.7
32.5°	3312.2	2841.7	1398.4	362.2	287.5	242.7	199.8	166.2	145.6	134.4	132.6
35°	3265.5	2729.7	1161.3	315.5	261.4	211.0	168.0	140.0	123.2	113.9	113.9
37.5°	3271.1	2640.1	939.1	285.7	233.4	181.1	143.8	119.5	104.6	95.2	95.2
40°	3254.3	2569.1	730.0	259.5	207.2	155.0	121.4	100.8	87.8	78.4	76.6
42.5°	3330.9	2550.4	550.8	237.1	181.1	132.6	104.6	85.9	72.8	61.6	61.6
45°	3459.7	2580.3	429.4	216.6	155.0	113.9	89.6	70.9	57.9	50.4	48.5
47.5°	3803.2	2697.9	336.1	199.8	132.6	99.0	74.7	57.9	46.7	39.2	37.3
50°	4301.8	2961.2	285.7	175.5	112.0	84.0	61.6	44.8	37.3	29.9	28.0
52.5°	5011.3	3403.7	259.5	155.0	93.4	69.1	48.5	35.5	28.0	22.4	20.5
55°	5784.2	3956.3	235.3	130.7	78.4	56.0	39.2	28.0	20.5	14.9	13.1
57.5°	6387.3	4434.3	214.7	108.3	63.5	44.8	29.9	20.5	14.9	9.3	7.5
60°	7046.4	4770.4	188.6	85.9	52.3	33.6	22.4	14.9	11.2	5.6	5.6
62.5°	7726.0	5164.4	155.0	67.2	41.1	26.1	16.8	11.2	7.5	1.9	1.9
65°	8670.7	5472.4	119.5	52.3	31.7	18.7	13.1	9.3	3.7	0.0	0.0
67.5°	8937.7	5321.2	87.8	41.1	22.4	13.1	9.3	5.6	1.9	0.0	0.0
69°	8670.7	4792.8	76.6	35.5	18.7	11.2	7.5	3.7	1.9	0.0	0.0
70°	8183.4	4382.0	67.2	29.9	16.8	11.2	5.6	3.7	1.9	0.0	0.0
72.5°	6844.7	3360.7	52.3	22.4	13.1	9.3	5.6	3.7	0.0	0.0	0.0
75°	5020.6	2076.2	39.2	16.8	11.2	7.5	5.6	3.7	0.0	0.0	0.0
77.5°	2690.5	758.0	28.0	11.2	7.5	5.6	5.6	3.7	0.0	0.0	0.0
80°	737.5	224.0	20.5	7.5	5.6	3.7	3.7	1.9	0.0	0.0	0.0
82.5°	201.6	57.9	13.1	7.5	5.6	3.7	1.9	0.0	0.0	0.0	0.0
85°	108.3	22.4	7.5	5.6	3.7	1.9	0.0	0.0	0.0	0.0	0.0
87.5°	56.0	7.5	5.6	3.7	3.7	1.9	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)