

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: P483987

Luminaire Tested: **IFLD-M-SA4A-735-U-SL2-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P483987
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4A-735-U-SL2-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL2 distribution lens with House Side Shield
Light Source: (64) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

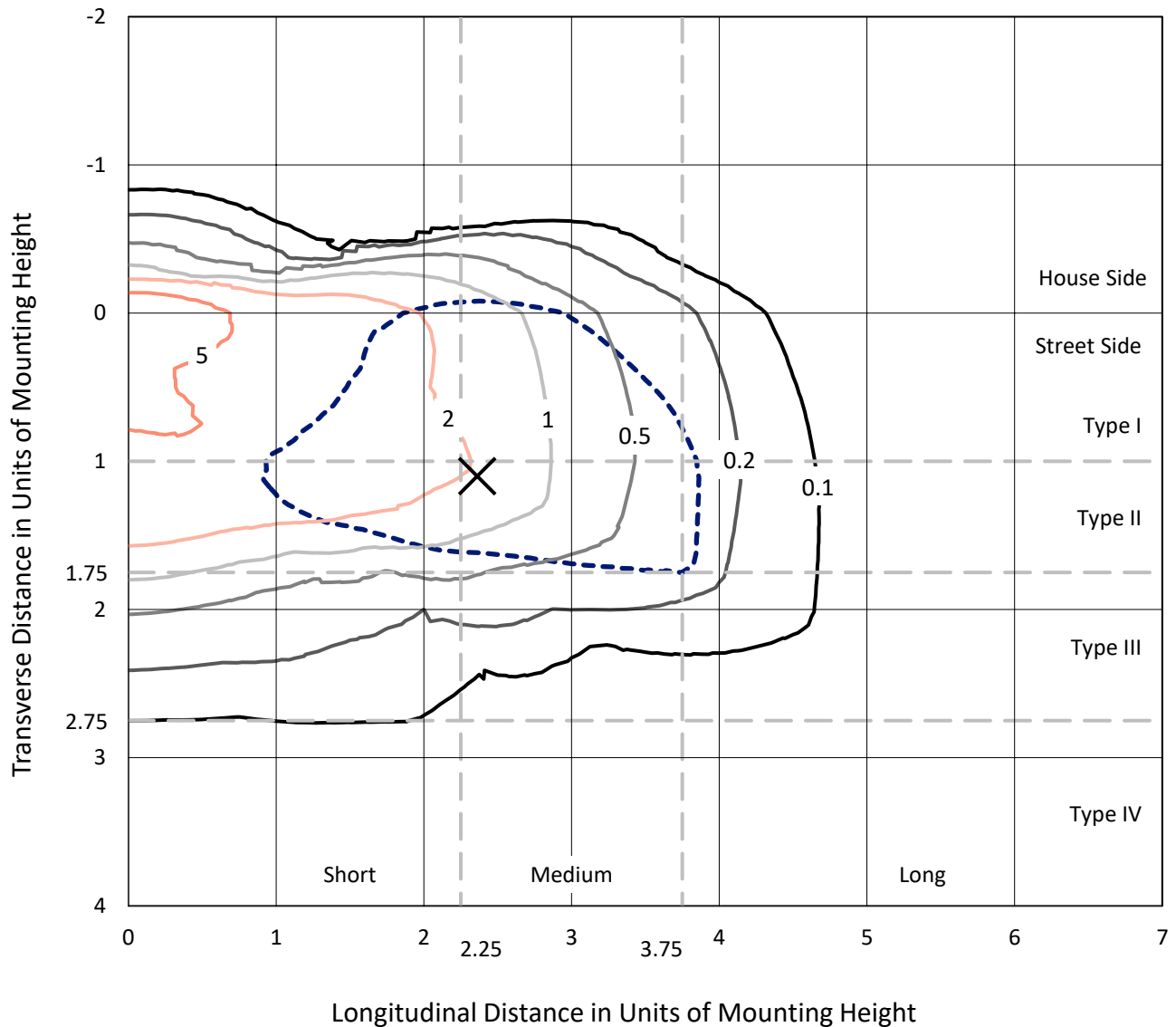
Lumens per Lamp: N/A
Luminaire Lumens: 14991.4 lumens
Efficiency: N/A
Efficacy: 116.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G3

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

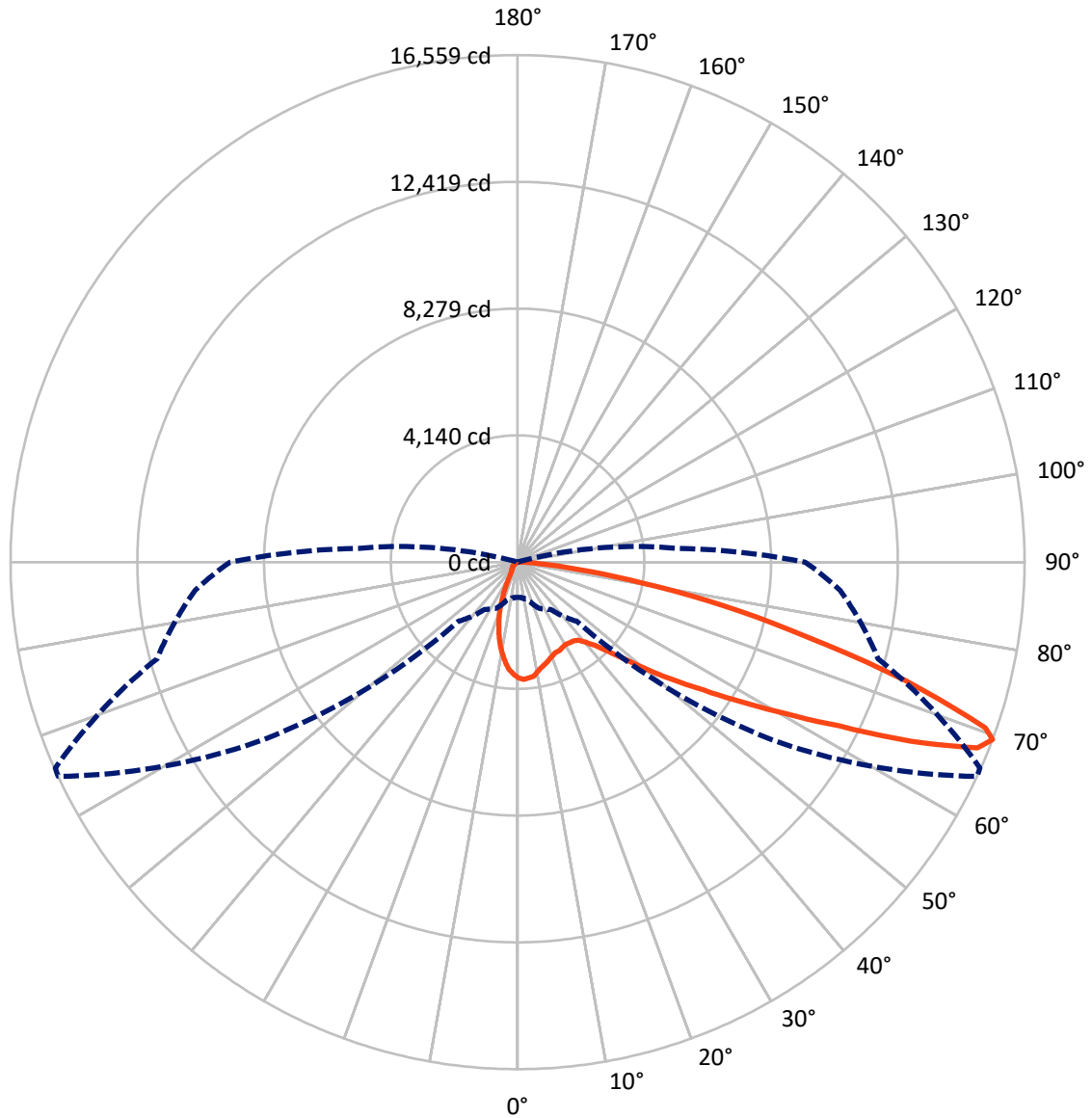
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 9.4 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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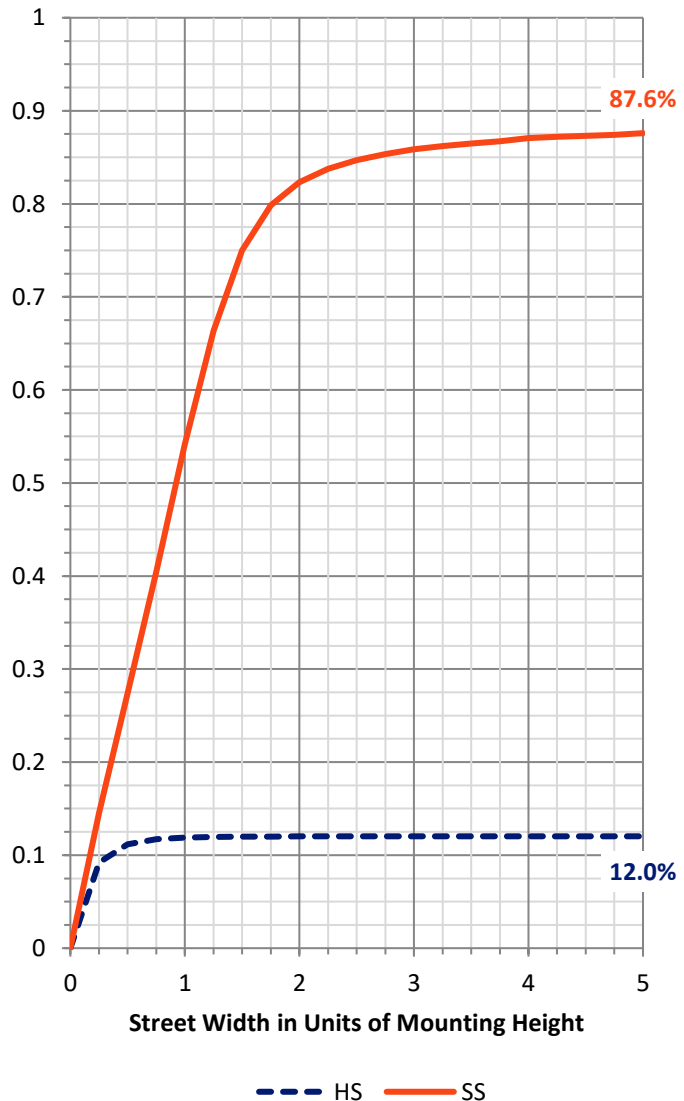
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1818.5	0.0	1818.5
	% Fixture	12.1	0.0	12.1
Street Side	Lumens	13172.8	0.0	13172.8
	% Fixture	87.9	0.0	87.9
Total	Lumens	14991.4	0.0	14991.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	309.3	2.1
10°-20°	676.7	4.5
20°-30°	942.2	6.3
30°-40°	1335.2	8.9
40°-50°	2104.2	14.0
50°-60°	3414.3	22.8
60°-70°	3813.1	25.4
70°-80°	2147.2	14.3
80°-90°	249.2	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°	14991.4	100.0
0°-180°	14991.4	100.0

Coefficient of Utilization



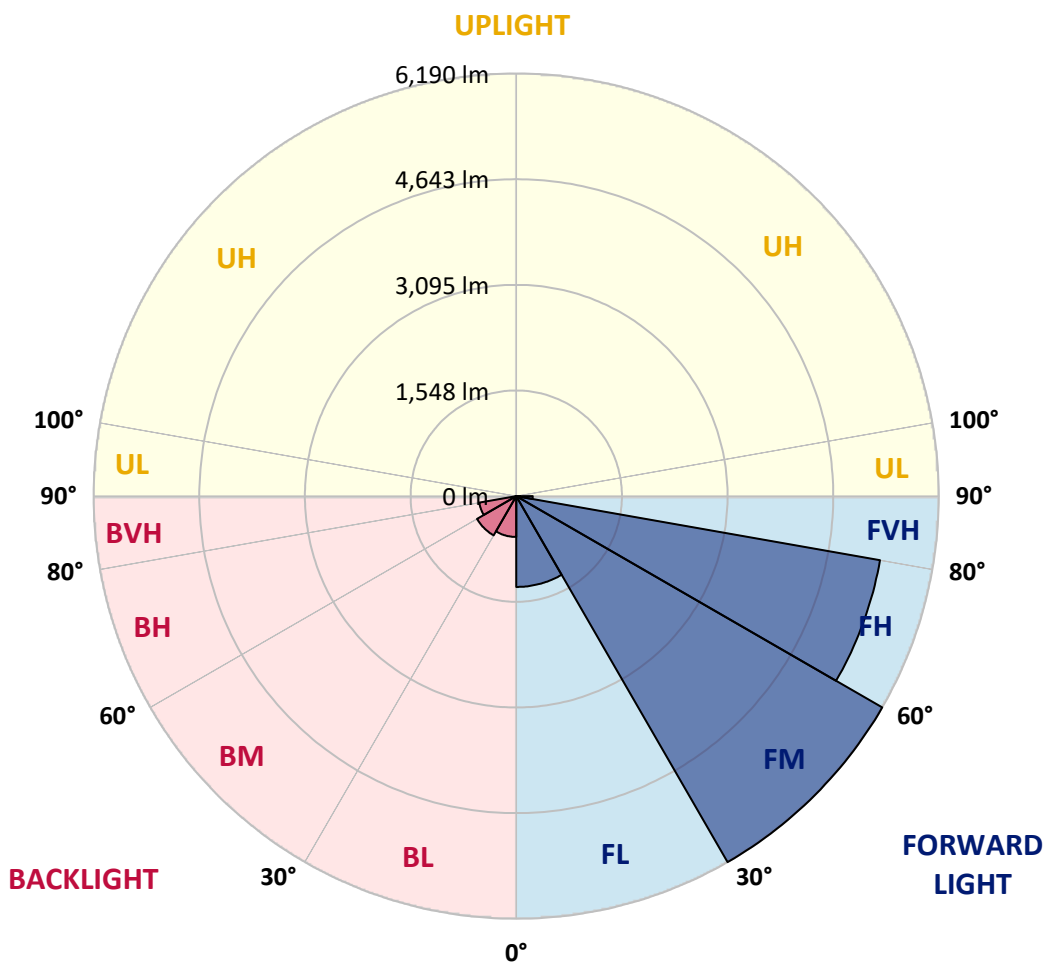
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1330.3	8.9			
FM (30°-60°)	6190.1	41.3			
FH (60°-80°)	5410.1	36.1			G3/7500
FVH (80°-90°)	242.3	1.6			G3/500
BL (0°-30°)	597.9	4.0	B2/1000		
BM (30°-60°)	663.6	4.4	B1/1000		
BH (60°-80°)	550.2	3.7	B2/1000		G2/1000
BVH (80°-90°)	6.9	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-G3

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	3779.7	3779.7	3779.7	3779.7	3779.7	3779.7	3779.7	3779.7	3779.7	3779.7	3779.7
2.5°	3640.1	3668.4	3676.5	3704.8	3719.0	3779.7	3814.1	3834.3	3824.2	3846.4	3848.4
5°	3381.3	3365.1	3407.6	3437.9	3502.6	3607.8	3715.0	3797.9	3836.3	3872.7	3866.6
7.5°	3104.2	3096.1	3138.6	3207.4	3266.0	3393.4	3565.3	3769.6	3761.5	3850.5	3876.7
10°	2914.1	2922.2	2936.4	3005.1	3092.1	3221.5	3435.9	3626.0	3668.4	3856.5	3909.1
12.5°	2740.2	2754.4	2780.7	2851.4	2952.6	3086.0	3294.3	3516.8	3581.5	3822.1	3927.3
15°	2683.6	2651.2	2703.8	2756.4	2861.6	2980.9	3156.8	3433.9	3462.2	3781.7	3957.6
17.5°	2637.1	2616.9	2641.1	2683.6	2794.8	2891.9	3057.7	3344.9	3397.5	3765.5	3953.6
20°	2651.2	2633.0	2643.1	2675.5	2726.1	2817.1	2970.8	3259.9	3316.6	3690.7	3947.5
22.5°	2691.7	2705.8	2687.6	2695.7	2711.9	2758.4	2924.2	3199.3	3247.8	3676.5	3981.9
25°	2873.7	2849.4	2825.1	2815.0	2720.0	2740.2	2910.1	3195.2	3229.6	3626.0	3953.6
27.5°	3063.8	3043.6	3033.4	2974.8	2845.4	2784.7	2912.1	3138.6	3185.1	3605.8	3919.2
30°	3294.3	3320.6	3280.2	3209.4	3029.4	2879.8	2934.4	3110.3	3175.0	3528.9	3897.0
32.5°	3537.0	3551.2	3571.4	3518.8	3286.2	3023.3	3001.1	3136.6	3140.6	3528.9	3846.4
35°	3812.0	3791.8	3844.4	3848.4	3644.2	3278.1	3128.5	3154.8	3197.3	3512.7	3828.2
37.5°	4048.6	4083.0	4143.7	4240.8	4030.4	3638.1	3326.7	3239.7	3257.9	3587.6	3842.4
40°	4307.5	4341.9	4479.4	4576.5	4457.1	4042.6	3628.0	3437.9	3452.1	3698.8	3915.2
42.5°	4592.6	4659.4	4823.2	4993.1	4960.7	4556.2	4016.3	3729.1	3723.0	3975.8	4064.8
45°	4978.9	5067.9	5245.8	5442.0	5470.3	5144.7	4534.0	4163.9	4184.1	4337.8	4374.2
47.5°	5516.8	5512.8	5686.7	5905.1	6068.9	5755.5	5152.8	4748.4	4746.3	4910.1	4833.3
50°	6036.6	6038.6	6085.1	6337.9	6762.6	6602.8	5919.3	5524.9	5502.7	5583.6	5460.2
52.5°	6277.2	6248.9	6214.5	6519.9	7296.4	7670.6	6890.0	6404.6	6386.4	6337.9	6305.5
55°	6024.4	6034.5	6032.5	6350.0	7577.5	8797.0	8135.7	7373.3	7343.0	7191.3	7235.8
57.5°	5213.5	5181.1	5251.9	5747.4	7256.0	9565.5	9917.3	8594.8	8515.9	8012.3	7911.2
60°	3880.8	3890.9	3949.5	4534.0	6457.2	9727.3	11622.1	10028.6	9688.8	8590.7	8451.2
62.5°	2709.9	2689.7	2711.9	3039.5	4616.9	9080.1	12774.9	11771.8	11444.2	9248.0	9167.1
65°	1939.4	1913.1	2002.1	2202.3	2772.6	6942.5	12938.7	14093.4	13800.2	10297.5	10103.4
67.5°	1395.4	1391.3	1494.5	1858.5	1969.7	3998.1	11725.3	16196.6	16018.6	11543.3	10673.7
69°	1154.7	1156.8	1255.8	1664.4	1880.7	2730.1	10089.2	16558.6	16526.2	12186.4	10566.5
70°	1007.1	1015.2	1130.5	1549.1	1844.3	2244.8	8697.9	16202.6	16170.3	12311.7	10212.6
72.5°	620.8	626.9	778.6	1241.7	1753.3	1832.2	5201.3	13256.2	13367.4	11737.4	8799.0
75°	297.3	299.3	408.5	897.9	1690.6	1737.2	2786.7	9781.9	10016.4	9476.5	6875.8
77.5°	157.7	157.7	196.2	477.3	1369.1	1634.0	1654.2	6900.1	7094.2	5992.1	3909.1
80°	78.9	80.9	119.3	248.7	849.4	1601.7	1292.2	4115.4	4220.5	2445.0	1217.4
82.5°	30.3	32.4	56.6	149.7	440.9	1352.9	1134.5	2024.3	1998.0	572.3	297.3
85°	4.0	4.0	20.2	89.0	188.1	596.6	936.3	845.3	817.0	125.4	143.6
87.5°	0.0	0.0	4.0	26.3	56.6	173.9	362.0	232.6	258.9	34.4	70.8
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°	3779.7	3779.7	3779.7	3779.7	3779.7	3779.7	3779.7	3779.7	3779.7	3779.7	3779.7
2.5°	3838.3	3795.9	3731.1	3668.4	3601.7	3520.8	3431.8	3399.5	3342.9	3338.8	3371.2
5°	3834.3	3765.5	3652.3	3518.8	3328.7	3185.1	3029.4	2916.2	2829.2	2772.6	2786.7
7.5°	3854.5	3771.6	3575.4	3288.3	3043.6	2758.4	2517.8	2351.9	2200.3	2125.4	2117.3
10°	3822.1	3710.9	3423.7	3021.3	2661.3	2263.0	1911.1	1688.6	1462.1	1379.2	1383.3
12.5°	3840.3	3684.6	3259.9	2746.3	2250.8	1733.1	1312.5	1009.1	796.8	728.0	719.9
15°	3852.5	3628.0	3102.2	2416.6	1795.8	1181.0	760.4	572.3	505.6	493.4	491.4
17.5°	3806.0	3559.2	2879.8	2091.1	1330.7	717.9	505.6	467.2	455.0	446.9	442.9
20°	3803.9	3518.8	2687.6	1757.4	887.8	489.4	436.8	422.7	404.5	398.4	398.4
22.5°	3769.6	3433.9	2457.1	1391.3	566.2	420.6	392.3	370.1	349.9	341.8	339.7
25°	3759.5	3334.8	2240.7	1045.5	430.7	376.1	347.8	315.5	291.2	279.1	273.0
27.5°	3731.1	3249.8	2022.3	736.1	376.1	335.7	299.3	264.9	236.6	218.4	216.4
30°	3630.0	3160.9	1779.6	509.6	341.8	297.3	256.8	216.4	188.1	175.9	171.9
32.5°	3587.6	3077.9	1514.7	392.3	311.4	262.9	216.4	180.0	157.7	145.6	143.6
35°	3537.0	2956.6	1257.9	341.8	283.1	228.5	182.0	151.7	133.5	123.4	123.4
37.5°	3543.1	2859.5	1017.2	309.4	252.8	196.2	155.7	129.4	113.2	103.1	103.1
40°	3524.9	2782.7	790.7	281.1	224.5	167.9	131.4	109.2	95.0	84.9	82.9
42.5°	3607.8	2762.5	596.6	256.8	196.2	143.6	113.2	93.0	78.9	66.7	66.7
45°	3747.3	2794.8	465.1	234.6	167.9	123.4	97.1	76.8	62.7	54.6	52.6
47.5°	4119.4	2922.2	364.0	216.4	143.6	107.2	80.9	62.7	50.6	42.5	40.4
50°	4659.4	3207.4	309.4	190.1	121.3	91.0	66.7	48.5	40.4	32.4	30.3
52.5°	5427.8	3686.6	281.1	167.9	101.1	74.8	52.6	38.4	30.3	24.3	22.2
55°	6265.1	4285.2	254.8	141.6	84.9	60.7	42.5	30.3	22.2	16.2	14.2
57.5°	6918.3	4803.0	232.6	117.3	68.8	48.5	32.4	22.2	16.2	10.1	8.1
60°	7632.2	5167.0	204.3	93.0	56.6	36.4	24.3	16.2	12.1	6.1	6.1
62.5°	8368.3	5593.7	167.9	72.8	44.5	28.3	18.2	12.1	8.1	2.0	2.0
65°	9391.5	5927.4	129.4	56.6	34.4	20.2	14.2	10.1	4.0	0.0	0.0
67.5°	9680.7	5763.5	95.0	44.5	24.3	14.2	10.1	6.1	2.0	0.0	0.0
69°	9391.5	5191.2	82.9	38.4	20.2	12.1	8.1	4.0	2.0	0.0	0.0
70°	8863.7	4746.3	72.8	32.4	18.2	12.1	6.1	4.0	2.0	0.0	0.0
72.5°	7413.7	3640.1	56.6	24.3	14.2	10.1	6.1	4.0	0.0	0.0	0.0
75°	5438.0	2248.8	42.5	18.2	12.1	8.1	6.1	4.0	0.0	0.0	0.0
77.5°	2914.1	821.1	30.3	12.1	8.1	6.1	6.1	4.0	0.0	0.0	0.0
80°	798.8	242.7	22.2	8.1	6.1	4.0	4.0	2.0	0.0	0.0	0.0
82.5°	218.4	62.7	14.2	8.1	6.1	4.0	2.0	0.0	0.0	0.0	0.0
85°	117.3	24.3	8.1	6.1	4.0	2.0	0.0	0.0	0.0	0.0	0.0
87.5°	60.7	8.1	6.1	4.0	4.0	2.0	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)