

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: P481182

Luminaire Tested: **IFLD-M-SA4D-727-U-RW**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P481182
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4D-727-U-RW
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ RW distribution lens
Light Source: (64) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

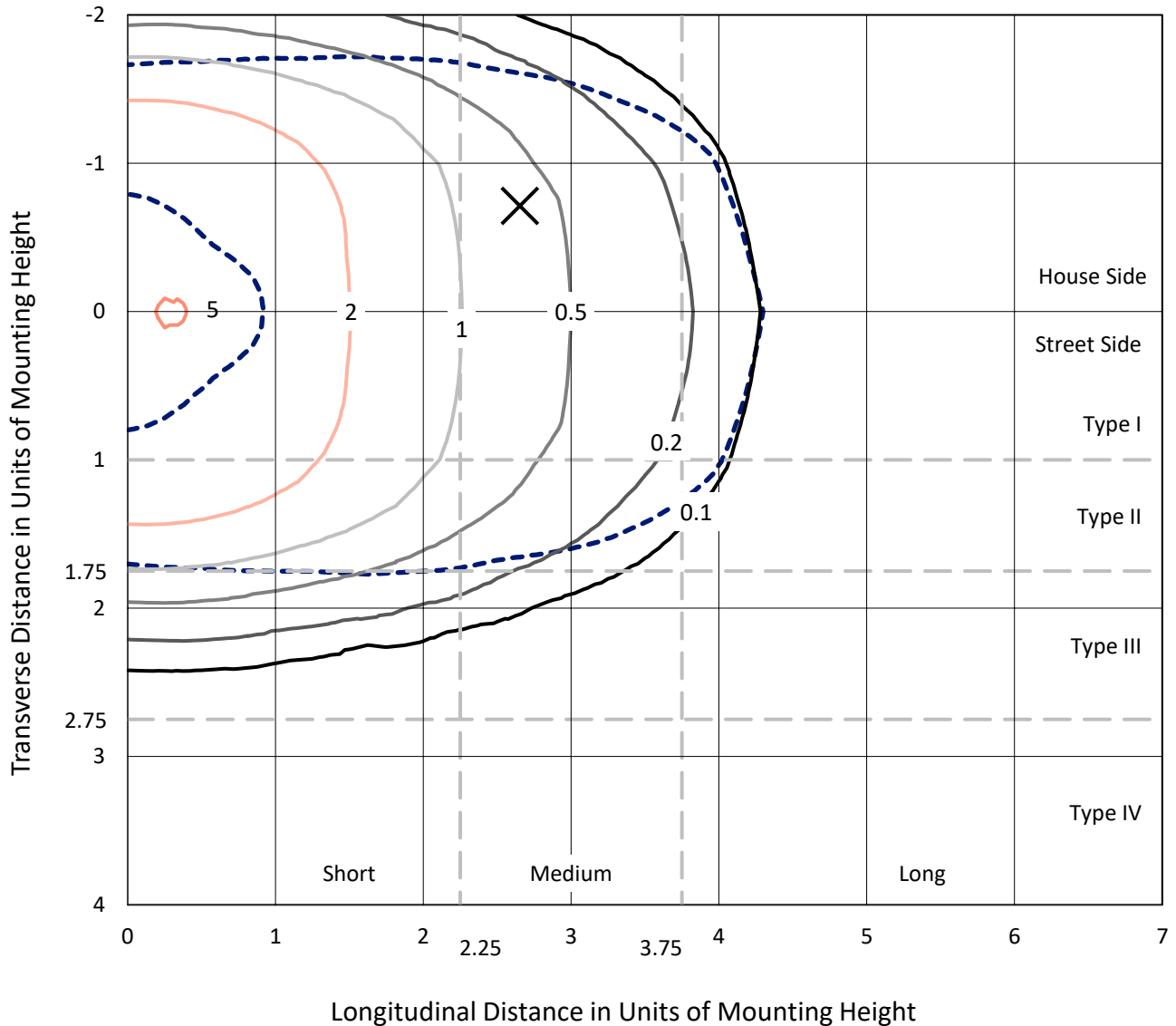
Lumens per Lamp: N/A
Luminaire Lumens: 26948.4 lumens
Efficiency: N/A
Efficacy: 107.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G4

Input Watts (W): 249.7
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

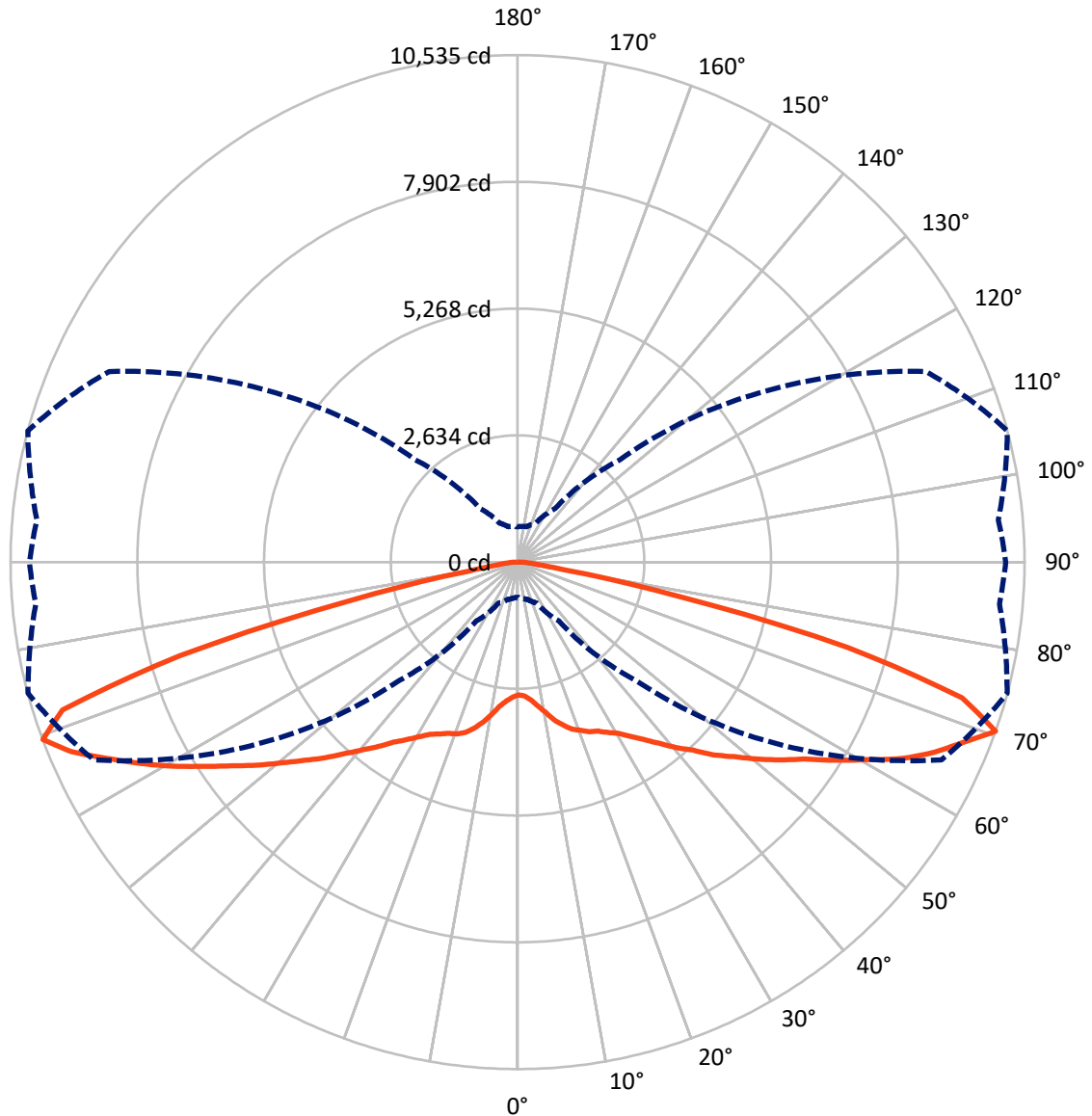
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 105-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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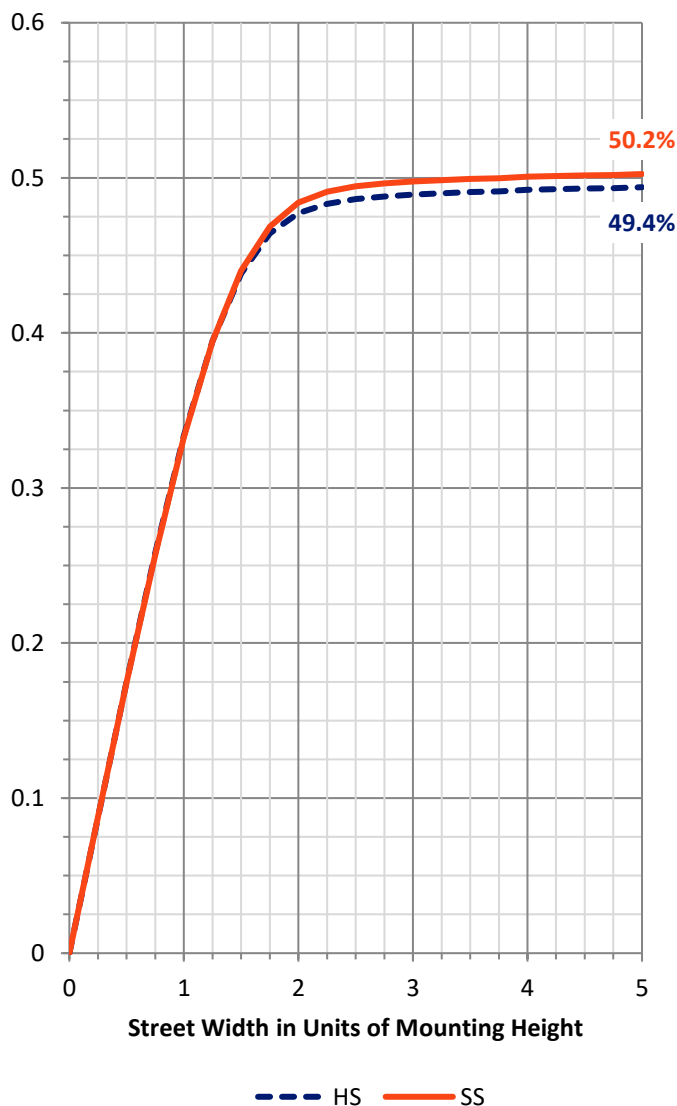
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	13378.3	0.0	13378.3
	% Fixture	49.6	0.0	49.6
Street Side	Lumens	13570.0	0.0	13570.0
	% Fixture	50.4	0.0	50.4
Total	Lumens	26948.4	0.0	26948.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	274.7	1.0
10°-20°	935.2	3.5
20°-30°	1810.9	6.7
30°-40°	3062.9	11.4
40°-50°	4886.3	18.1
50°-60°	6688.2	24.8
60°-70°	6304.1	23.4
70°-80°	2777.1	10.3
80°-90°	209.0	0.8
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°	26948.4	100.0
0°-180°	26948.4	100.0

Coefficient of Utilization

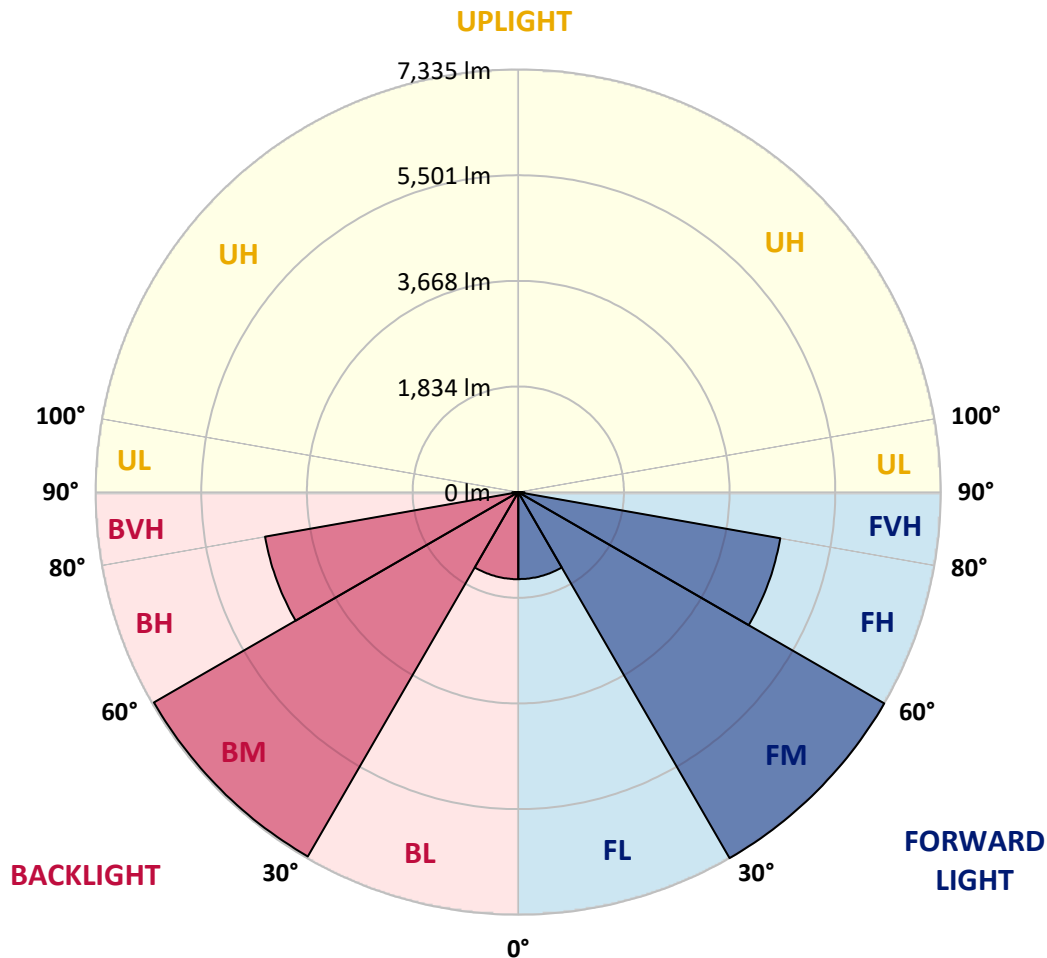


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1509.5	5.6			
FM (30°-60°)	7335.1	27.2			
FH (60°-80°)	4618.7	17.1			G2/5000
FVH (80°-90°)	106.7	0.4			G2/225
BL (0°-30°)	1511.2	5.6	B3/2500		
BM (30°-60°)	7302.3	27.1	B4/8500		
BH (60°-80°)	4462.6	16.6	B4/5000		G4/5000
BVH (80°-90°)	102.2	0.4			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2759.5	2759.5	2759.5	2759.5	2759.5	2759.5	2759.5	2759.5	2759.5	2759.5	2759.5
2.5°	2742.1	2742.1	2739.2	2753.7	2768.2	2774.0	2785.6	2788.5	2806.0	2791.4	2820.5
5°	2733.3	2730.4	2753.7	2788.5	2788.5	2826.3	2849.5	2881.5	2890.2	2907.6	2913.4
7.5°	2794.3	2788.5	2776.9	2814.7	2846.6	2904.7	2936.7	2991.9	3012.2	3035.4	3061.6
10°	2832.1	2832.1	2820.5	2887.3	2916.3	2994.8	3064.5	3119.7	3198.1	3224.2	3227.1
12.5°	2837.9	2846.6	2881.5	2968.6	3050.0	3151.6	3203.9	3308.5	3386.9	3436.3	3453.7
15°	2925.1	2907.6	2945.4	3064.5	3183.6	3273.6	3366.6	3442.1	3555.4	3619.3	3659.9
17.5°	3003.5	2986.1	3055.8	3198.1	3320.1	3459.5	3540.9	3622.2	3703.5	3761.6	3764.5
20°	3128.4	3142.9	3203.9	3357.9	3517.6	3639.6	3732.6	3747.1	3787.8	3872.0	3857.5
22.5°	3282.3	3270.7	3398.5	3567.0	3741.3	3842.9	3895.2	3857.5	3837.1	3927.2	3947.5
25°	3436.3	3471.1	3587.3	3744.2	3953.3	4089.8	4104.4	3999.8	3924.3	3956.2	3947.5
27.5°	3671.6	3677.4	3799.4	3985.3	4197.3	4316.4	4307.7	4159.6	4014.3	4017.2	4023.0
30°	3973.7	3944.6	4078.2	4246.7	4455.8	4563.3	4577.8	4365.8	4171.2	4113.1	4127.6
32.5°	4264.1	4299.0	4415.2	4606.9	4760.8	4821.8	4789.9	4601.1	4348.4	4269.9	4278.7
35°	4635.9	4630.1	4789.9	4952.5	5068.7	5080.4	5054.2	4778.3	4540.1	4438.4	4397.7
37.5°	5033.9	5086.2	5190.7	5324.4	5446.4	5452.2	5309.8	5089.1	4795.7	4627.2	4676.6
40°	5478.3	5536.4	5611.9	5806.5	5896.6	5803.6	5658.4	5359.2	5054.2	4906.1	4929.3
42.5°	5870.4	5896.6	6050.5	6280.0	6323.6	6282.9	6068.0	5704.9	5350.5	5187.8	5199.4
45°	6230.6	6265.5	6465.9	6672.1	6773.8	6704.1	6454.3	6108.6	5696.2	5556.7	5501.5
47.5°	6561.8	6631.5	6826.1	7038.1	7195.0	7200.8	6892.9	6474.6	6038.9	5855.9	5853.0
50°	6785.4	6887.1	7078.8	7319.9	7549.4	7639.4	7331.5	6881.3	6413.6	6219.0	6198.7
52.5°	6907.4	7012.0	7203.7	7578.4	7834.0	7973.5	7828.2	7261.8	6852.2	6648.9	6617.0
55°	6759.3	6829.0	7142.7	7668.5	8063.5	8293.0	8197.1	7787.6	7287.9	7122.4	7151.4
57.5°	6129.0	6274.2	6660.5	7317.0	8057.7	8621.2	8612.5	8284.3	7790.5	7633.6	7639.4
60°	5045.5	5167.5	5643.9	6561.8	7732.4	8754.8	9062.7	8766.4	8354.0	8171.0	8165.2
62.5°	3561.2	3715.1	4267.0	5269.2	6773.8	8568.9	9579.8	9373.5	8905.9	8772.3	8821.6
65°	1992.6	2085.6	2596.8	3503.1	5161.7	7546.5	9672.7	10003.9	9466.5	9263.2	9271.9
67.5°	1066.0	1100.9	1339.1	1838.7	3157.4	5818.2	8734.5	10366.9	10073.6	9722.1	9666.9
70°	732.0	743.6	804.6	941.1	1493.0	3479.9	6587.9	9719.2	10529.6	10050.3	10143.3
72.5°	618.7	612.9	627.4	641.9	781.4	1556.9	3866.2	7479.7	9940.0	9759.9	9725.0
75°	537.4	534.5	540.3	525.8	543.2	685.5	1710.9	4662.1	7276.3	8121.6	8252.3
77.5°	444.4	447.3	450.2	435.7	429.9	453.1	688.4	2047.8	3581.5	3953.3	4264.1
80°	336.9	342.8	366.0	351.5	328.2	331.1	406.7	685.5	1028.3	932.4	961.5
82.5°	229.5	232.4	281.8	264.3	246.9	223.7	261.4	354.4	400.9	305.0	267.2
85°	162.7	159.8	183.0	168.5	156.9	113.3	156.9	200.4	241.1	151.0	136.5
87.5°	37.8	37.8	75.5	61.0	58.1	46.5	61.0	78.4	104.6	66.8	61.0
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2759.5	2759.5	2759.5	2759.5	2759.5	2759.5	2759.5	2759.5	2759.5	2759.5
2.5°	2811.8	2785.6	2785.6	2779.8	2756.6	2750.8	2730.4	2736.2	2721.7	2707.2
5°	2910.5	2875.7	2875.7	2826.3	2779.8	2774.0	2750.8	2750.8	2727.5	2733.3
7.5°	3047.1	3015.1	2962.8	2919.2	2855.3	2829.2	2785.6	2779.8	2774.0	2762.4
10°	3209.7	3169.0	3116.8	3026.7	2974.4	2925.1	2881.5	2820.5	2806.0	2808.9
12.5°	3430.5	3366.6	3253.3	3174.9	3108.1	3044.1	2980.2	2890.2	2869.9	2878.6
15°	3587.3	3506.0	3392.7	3363.7	3273.6	3195.2	3090.6	2989.0	2954.1	2945.4
17.5°	3715.1	3648.3	3581.5	3537.9	3465.3	3369.5	3224.2	3108.1	3029.6	3020.9
20°	3819.7	3732.6	3718.0	3744.2	3654.1	3590.2	3413.0	3270.7	3166.1	3122.6
22.5°	3883.6	3828.4	3869.1	3892.3	3886.5	3779.0	3596.0	3430.5	3299.8	3259.1
25°	3953.3	3889.4	4034.7	4113.1	4133.4	3956.2	3813.9	3596.0	3468.2	3442.1
27.5°	3988.2	4011.4	4179.9	4345.5	4330.9	4194.4	4002.7	3808.1	3706.4	3659.9
30°	4089.8	4127.6	4383.2	4569.1	4572.0	4438.4	4293.2	4072.4	3959.1	3938.8
32.5°	4272.8	4319.3	4592.4	4789.9	4824.7	4723.1	4577.8	4441.3	4325.1	4278.7
35°	4412.3	4531.4	4839.3	5019.4	5112.3	5051.3	4970.0	4827.6	4705.6	4665.0
37.5°	4612.7	4778.3	5074.5	5318.5	5423.1	5417.3	5356.3	5202.4	5100.7	5065.8
40°	4900.3	5065.8	5336.0	5658.4	5853.0	5844.3	5809.4	5690.3	5539.3	5521.9
42.5°	5205.3	5341.8	5693.3	6062.2	6341.0	6312.0	6219.0	6079.6	5975.0	5951.8
45°	5501.5	5713.6	6038.9	6512.4	6721.5	6794.1	6683.8	6445.6	6326.5	6312.0
47.5°	5873.3	6041.8	6448.5	6872.6	7183.4	7195.0	7006.2	6785.4	6567.6	6614.0
50°	6204.5	6428.1	6840.6	7305.4	7677.2	7543.6	7302.5	7026.5	6869.7	6808.7
52.5°	6558.9	6831.9	7311.2	7784.6	7990.9	7857.3	7465.1	7157.2	6919.0	6892.9
55°	7075.9	7218.2	7845.6	8208.7	8275.5	7993.8	7415.8	6980.0	6672.1	6596.6
57.5°	7601.7	7767.2	8316.2	8629.9	8560.2	7918.3	7096.2	6422.3	6018.6	5911.1
60°	8133.2	8336.5	8798.4	9086.0	8725.8	7398.3	6192.9	5324.4	4853.8	4757.9
62.5°	8725.8	8990.1	9402.6	9504.2	8234.9	6370.1	4914.8	3842.9	3366.6	3206.8
65°	9251.5	9521.7	10030.0	9417.1	7192.1	4752.1	3177.8	2196.0	1844.5	1716.7
67.5°	9684.3	9989.3	10239.1	8333.6	5266.3	2782.7	1655.7	1156.1	1025.4	978.9
70°	10027.1	10535.4	9367.7	6126.1	3009.3	1356.5	894.7	761.0	743.6	732.0
72.5°	9727.9	9661.1	6994.6	3535.0	1318.7	746.5	647.8	627.4	624.5	627.4
75°	7956.0	7096.2	4182.8	1536.6	662.3	540.3	537.4	528.7	543.2	543.2
77.5°	3860.4	3375.3	1748.6	659.4	435.7	424.1	438.6	438.6	438.6	438.6
80°	894.7	990.5	624.5	400.9	316.6	316.6	348.6	351.5	336.9	331.1
82.5°	305.0	406.7	342.8	252.7	209.1	235.3	264.3	270.1	223.7	226.6
85°	151.0	238.2	185.9	145.2	107.5	145.2	171.4	180.1	154.0	148.1
87.5°	69.7	104.6	69.7	49.4	37.8	52.3	49.4	40.7	23.2	23.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)