

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: P480068

Luminaire Tested: **IFLD-S-SA3B-735-U-SL2**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P480068
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3B-735-U-SL2
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL2 distribution lens
Light Source: (48) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

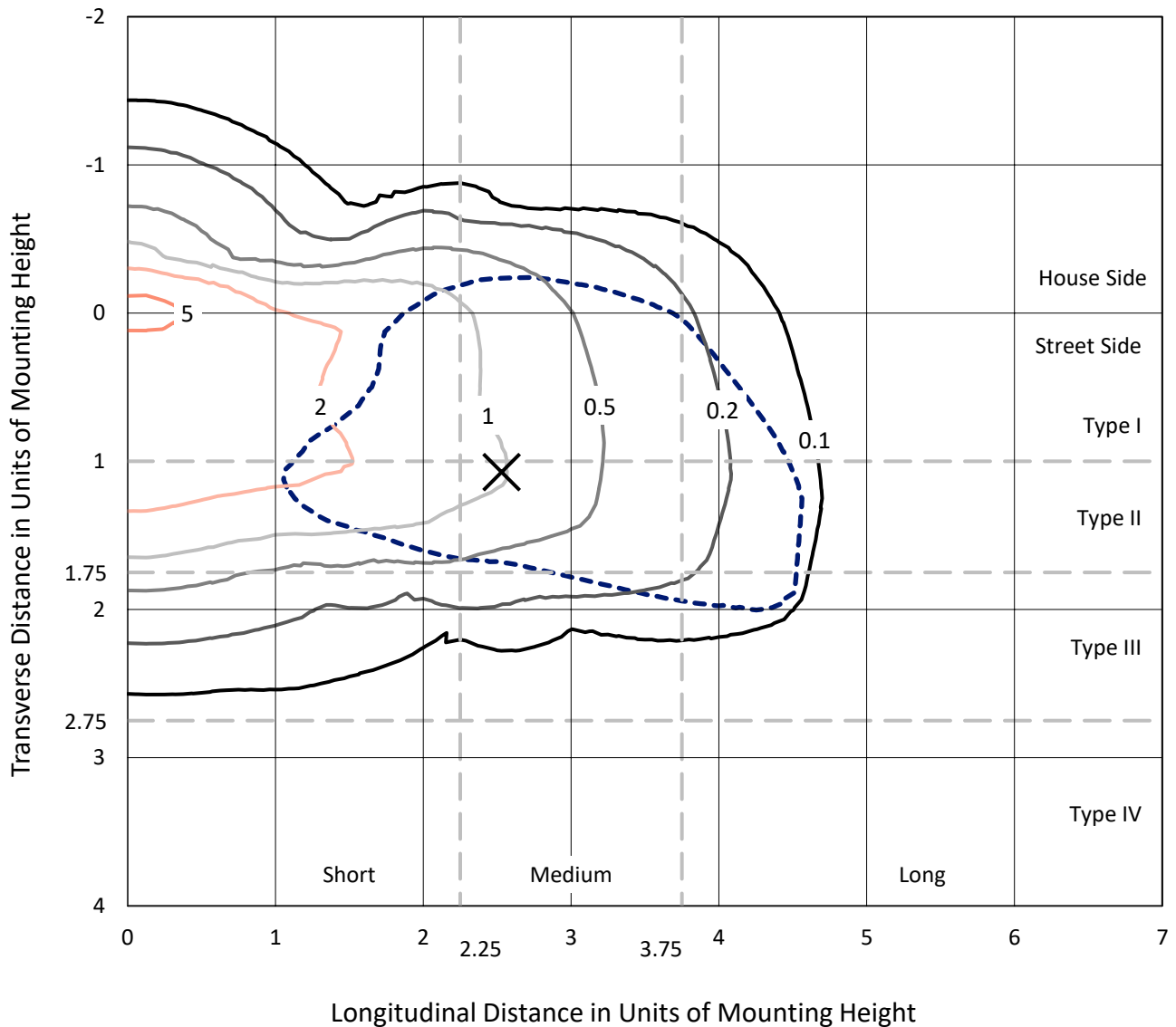
Lumens per Lamp: N/A
Luminaire Lumens: 16733.4 lumens
Efficiency: N/A
Efficacy: 136.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G3

Input Watts (W): 122.4
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

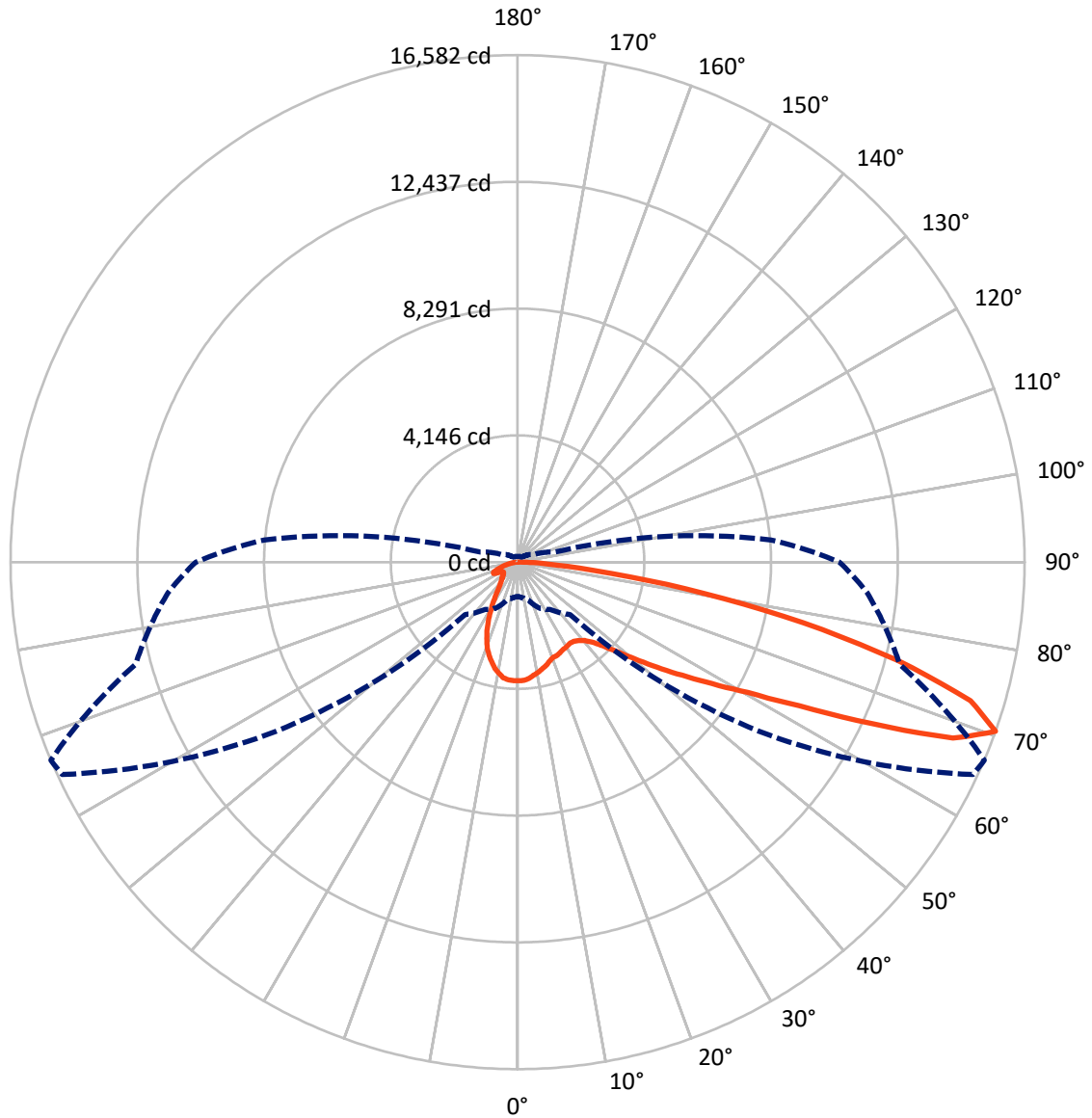
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.2 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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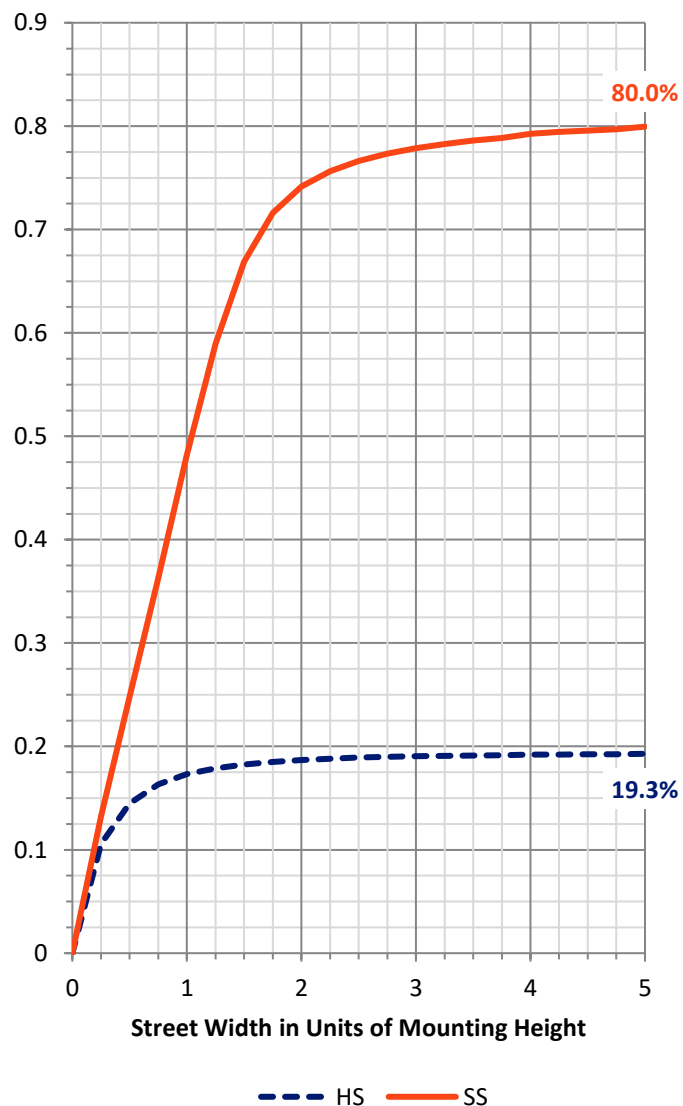
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3259.0	0.0	3259.0
	% Fixture	19.5	0.0	19.5
Street Side	Lumens	13474.4	0.0	13474.4
	% Fixture	80.5	0.0	80.5
Total	Lumens	16733.4	0.0	16733.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	338.0	2.0
10°-20°	809.5	4.8
20°-30°	1093.1	6.5
30°-40°	1462.7	8.7
40°-50°	2150.9	12.9
50°-60°	3352.7	20.0
60°-70°	4130.0	24.7
70°-80°	2918.2	17.4
80°-90°	478.3	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°	16733.4	100.0
0°-180°	16733.4	100.0

Coefficient of Utilization



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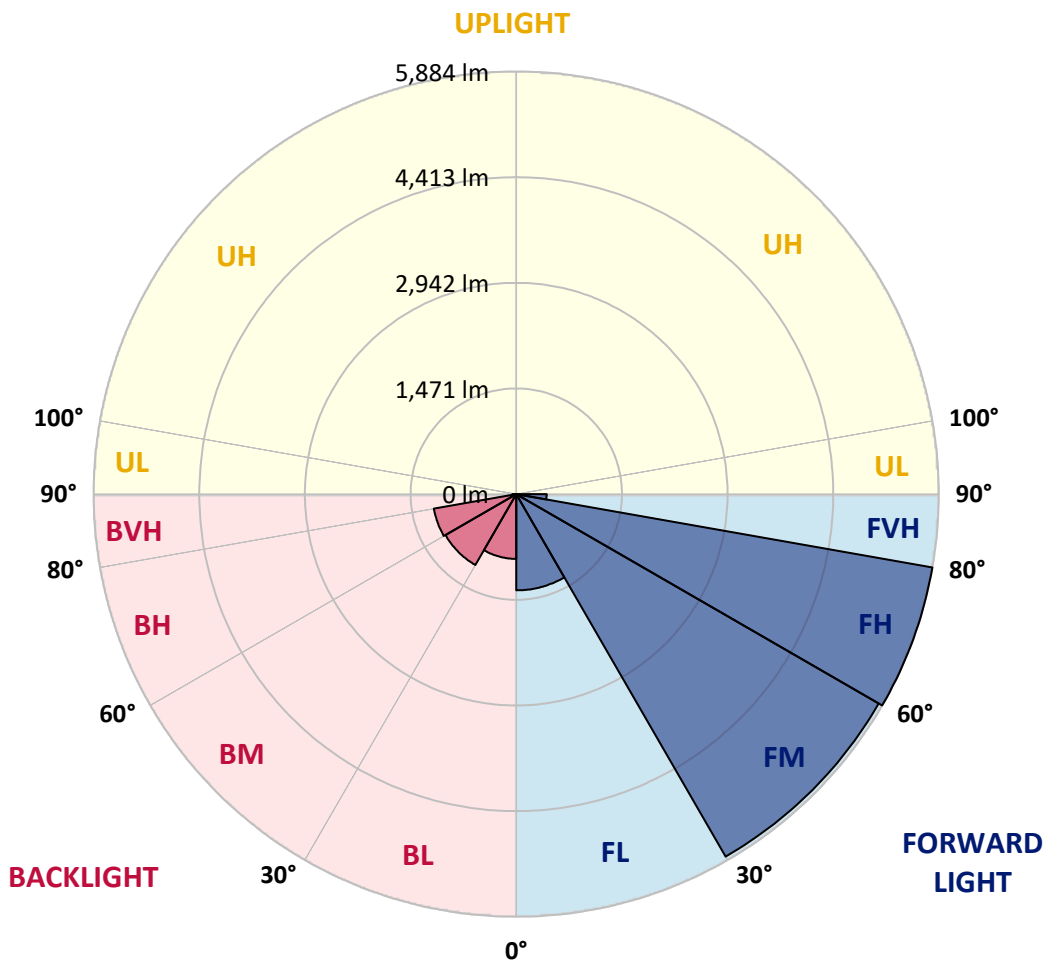
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1339.4	8.0			
FM (30°-60°)	5827.9	34.8			
FH (60°-80°)	5884.0	35.2			G3/7500
FVH (80°-90°)	423.1	2.5			G3/500
BL (0°-30°)	901.2	5.4	B2/1000		
BM (30°-60°)	1138.4	6.8	B2/2500		
BH (60°-80°)	1164.2	7.0	B3/2500		G3/2500
BVH (80°-90°)	55.2	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	3873.7	3873.7	3873.7	3873.7	3873.7	3873.7	3873.7	3873.7	3873.7	3873.7	3873.7
2.5°	3607.0	3647.7	3662.5	3684.8	3742.2	3784.8	3810.7	3840.4	3875.6	3905.2	3923.7
5°	3355.0	3377.2	3412.4	3436.5	3508.8	3623.6	3701.4	3827.4	3823.7	3870.0	3940.4
7.5°	3110.5	3132.7	3149.4	3197.5	3301.3	3405.0	3547.7	3751.5	3736.6	3844.1	3953.4
10°	2958.6	2941.9	2947.4	3029.0	3110.5	3227.2	3406.9	3614.4	3668.1	3834.8	3990.4
12.5°	2815.9	2797.4	2841.8	2893.7	2993.8	3099.3	3314.2	3501.4	3582.9	3801.5	4007.1
15°	2727.0	2714.0	2769.6	2791.8	2910.4	3036.4	3188.3	3416.1	3505.1	3760.7	3981.2
17.5°	2677.0	2688.1	2708.5	2756.6	2832.6	2940.0	3106.8	3358.7	3397.6	3710.7	3975.6
20°	2686.2	2699.2	2701.0	2721.4	2773.3	2856.7	3027.1	3297.6	3323.5	3701.4	3990.4
22.5°	2760.3	2741.8	2749.2	2736.2	2751.1	2815.9	2966.0	3216.1	3316.1	3623.6	3958.9
25°	2871.5	2845.5	2841.8	2797.4	2769.6	2788.1	2954.8	3195.7	3260.5	3599.5	3957.1
27.5°	3067.9	3029.0	3029.0	2962.3	2849.3	2819.6	2923.4	3162.3	3219.8	3577.3	3914.5
30°	3256.8	3256.8	3258.7	3164.2	3038.2	2891.9	2936.3	3149.4	3186.4	3510.6	3857.0
32.5°	3486.5	3481.0	3471.7	3425.4	3230.9	3012.3	2999.3	3132.7	3151.2	3488.4	3840.4
35°	3710.7	3695.9	3768.1	3727.4	3529.1	3247.6	3064.1	3140.1	3180.9	3455.0	3788.5
37.5°	3879.3	3888.5	4038.6	4064.5	3894.1	3514.3	3247.6	3214.2	3253.1	3503.2	3788.5
40°	4097.9	4134.9	4275.7	4362.8	4259.1	3866.3	3538.4	3338.3	3366.1	3610.7	3870.0
42.5°	4385.0	4416.5	4596.2	4709.2	4679.6	4314.6	3825.6	3597.7	3575.5	3790.4	3992.3
45°	4764.8	4770.4	4951.9	5107.5	5168.7	4783.3	4281.3	3925.6	3907.1	4099.7	4216.4
47.5°	5216.8	5211.3	5324.3	5491.0	5655.9	5342.8	4805.6	4423.9	4357.2	4542.5	4588.8
50°	5654.0	5630.0	5655.9	5868.9	6185.7	6043.1	5442.8	5033.4	4966.7	5068.6	5148.3
52.5°	5894.9	5924.5	5854.1	6135.7	6748.9	6871.2	6287.6	5761.5	5704.1	5754.1	5893.0
55°	5726.3	5787.4	5741.1	6007.9	6995.3	7880.8	7380.6	6604.4	6530.3	6511.8	6739.6
57.5°	5009.3	5120.5	5129.8	5552.1	6910.1	8662.6	8918.3	7599.2	7488.1	7299.1	7534.4
60°	3845.9	3957.1	4042.3	4542.5	6180.2	9129.5	10700.4	9014.6	8647.8	8158.7	8299.5
62.5°	2695.5	2771.4	2856.7	3164.2	4764.8	8855.3	12241.8	11008.0	10331.8	9064.6	9240.6
65°	1963.7	2023.0	2110.1	2291.6	2927.1	7326.9	12956.9	13375.5	12734.6	10216.9	10194.7
67.5°	1478.4	1515.4	1630.3	1921.1	2028.6	4525.8	12215.8	15876.5	15357.8	11497.0	10961.7
70°	1119.0	1150.4	1257.9	1656.2	1895.2	2426.9	9637.1	16434.1	16582.3	12932.8	11476.7
72.5°	770.7	805.9	926.3	1380.2	1804.4	1924.8	6048.6	14929.9	15491.2	13523.8	10924.6
75°	472.4	496.5	566.9	1046.7	1791.4	1882.2	3329.1	12234.4	12829.0	12495.6	9557.4
77.5°	333.5	331.6	344.6	613.2	1552.5	1893.3	2052.6	8964.6	9542.6	9209.1	6485.8
80°	242.7	244.5	257.5	366.8	1054.1	1924.8	1617.3	6004.2	6176.5	4801.9	2558.4
82.5°	146.4	153.8	185.3	248.2	633.6	1737.7	1495.0	3336.5	3121.6	1541.3	704.0
85°	77.8	77.8	109.3	157.5	337.2	1296.8	1439.4	1587.7	1330.1	478.0	261.2
87.5°	18.5	18.5	31.5	63.0	135.2	620.6	981.9	631.7	505.8	161.2	107.4
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°	3873.7	3873.7	3873.7	3873.7	3873.7	3873.7	3873.7	3873.7	3873.7	3873.7	3873.7
2.5°	3916.3	3894.1	3921.9	3866.3	3821.9	3823.7	3755.2	3751.5	3742.2	3694.0	3710.7
5°	3960.8	3942.3	3910.8	3849.6	3751.5	3653.3	3594.0	3518.0	3486.5	3469.9	3477.3
7.5°	4003.4	3970.1	3879.3	3794.1	3642.2	3456.9	3349.4	3247.6	3117.9	3103.1	3077.1
10°	4014.5	3944.1	3827.4	3645.9	3443.9	3238.3	2993.8	2804.8	2704.8	2626.9	2597.3
12.5°	3997.8	3968.2	3744.0	3510.6	3204.9	2882.6	2597.3	2330.5	2145.3	2048.9	2023.0
15°	3996.0	3944.1	3651.4	3305.0	2914.1	2493.6	2087.8	1767.4	1572.8	1493.2	1493.2
17.5°	3997.8	3873.7	3542.1	3097.5	2571.4	2002.6	1556.2	1293.1	1185.6	1174.5	1183.8
20°	3960.8	3821.9	3427.3	2853.0	2141.6	1504.3	1130.1	1022.6	1022.6	1037.4	1043.0
22.5°	3927.4	3744.0	3245.7	2551.0	1704.4	1089.3	918.9	887.4	922.6	948.5	959.6
25°	3881.1	3679.2	3060.4	2237.9	1296.8	878.1	798.5	805.9	839.2	885.5	881.8
27.5°	3814.4	3566.2	2840.0	1874.8	965.2	757.7	737.3	741.0	776.2	796.6	792.9
30°	3738.5	3451.3	2636.2	1513.5	765.1	694.7	692.9	702.1	707.7	718.8	716.9
32.5°	3642.2	3299.4	2419.5	1176.4	689.2	659.5	652.1	646.5	652.1	650.3	644.7
35°	3573.6	3217.9	2199.0	896.6	646.5	628.0	622.5	613.2	605.8	594.7	592.8
37.5°	3555.1	3136.4	1967.4	731.8	613.2	603.9	585.4	568.7	559.5	553.9	550.2
40°	3544.0	3082.7	1741.4	642.8	585.4	576.1	553.9	531.7	522.4	516.9	518.7
42.5°	3582.9	3053.0	1511.7	598.4	561.3	544.7	520.6	494.6	492.8	489.1	494.6
45°	3720.0	3090.1	1298.7	566.9	537.2	509.5	478.0	465.0	463.1	459.4	463.1
47.5°	4031.2	3182.7	1117.1	546.5	511.3	487.2	453.9	435.4	433.5	431.6	431.6
50°	4461.0	3468.0	965.2	522.4	494.6	461.3	429.8	409.4	405.7	398.3	398.3
52.5°	5135.3	3947.8	874.4	509.5	465.0	437.2	403.9	381.6	372.4	365.0	365.0
55°	5894.9	4542.5	857.7	487.2	433.5	407.6	377.9	355.7	346.4	337.2	333.5
57.5°	6760.0	5329.8	976.3	472.4	411.3	377.9	344.6	324.2	316.8	307.5	303.8
60°	7565.9	6115.3	1345.0	450.2	390.9	350.1	316.8	296.4	287.1	277.9	277.9
62.5°	8497.7	7087.9	1969.3	450.2	372.4	320.5	287.1	272.3	266.8	257.5	255.7
65°	9600.0	8093.9	2425.0	478.0	366.8	294.6	259.4	244.5	239.0	233.4	231.6
67.5°	10439.2	8671.9	2086.0	552.1	390.9	272.3	231.6	222.3	218.6	213.0	209.3
70°	10528.2	8319.9	1257.9	596.5	415.0	250.1	207.5	198.2	198.2	192.7	189.0
72.5°	9729.7	7382.5	846.6	531.7	376.1	224.2	183.4	176.0	172.3	168.6	166.7
75°	8142.0	6261.7	668.8	424.2	289.0	185.3	159.3	151.9	146.4	144.5	140.8
77.5°	5468.8	4070.1	494.6	331.6	213.0	150.1	133.4	126.0	120.4	118.6	113.0
80°	2100.8	1550.6	318.6	240.8	150.1	118.6	105.6	98.2	94.5	88.9	85.2
82.5°	618.8	502.0	177.8	148.2	96.3	81.5	76.0	70.4	64.8	59.3	57.4
85°	255.7	229.7	109.3	77.8	59.3	48.2	44.5	38.9	33.3	29.6	25.9
87.5°	118.6	98.2	50.0	29.6	20.4	11.1	5.6	1.9	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)