

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: P480226

Luminaire Tested: **IFLD-S-SA3D-827-U-SL2**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P480226
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3D-827-U-SL2
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL2 distribution lens
Light Source: (48) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

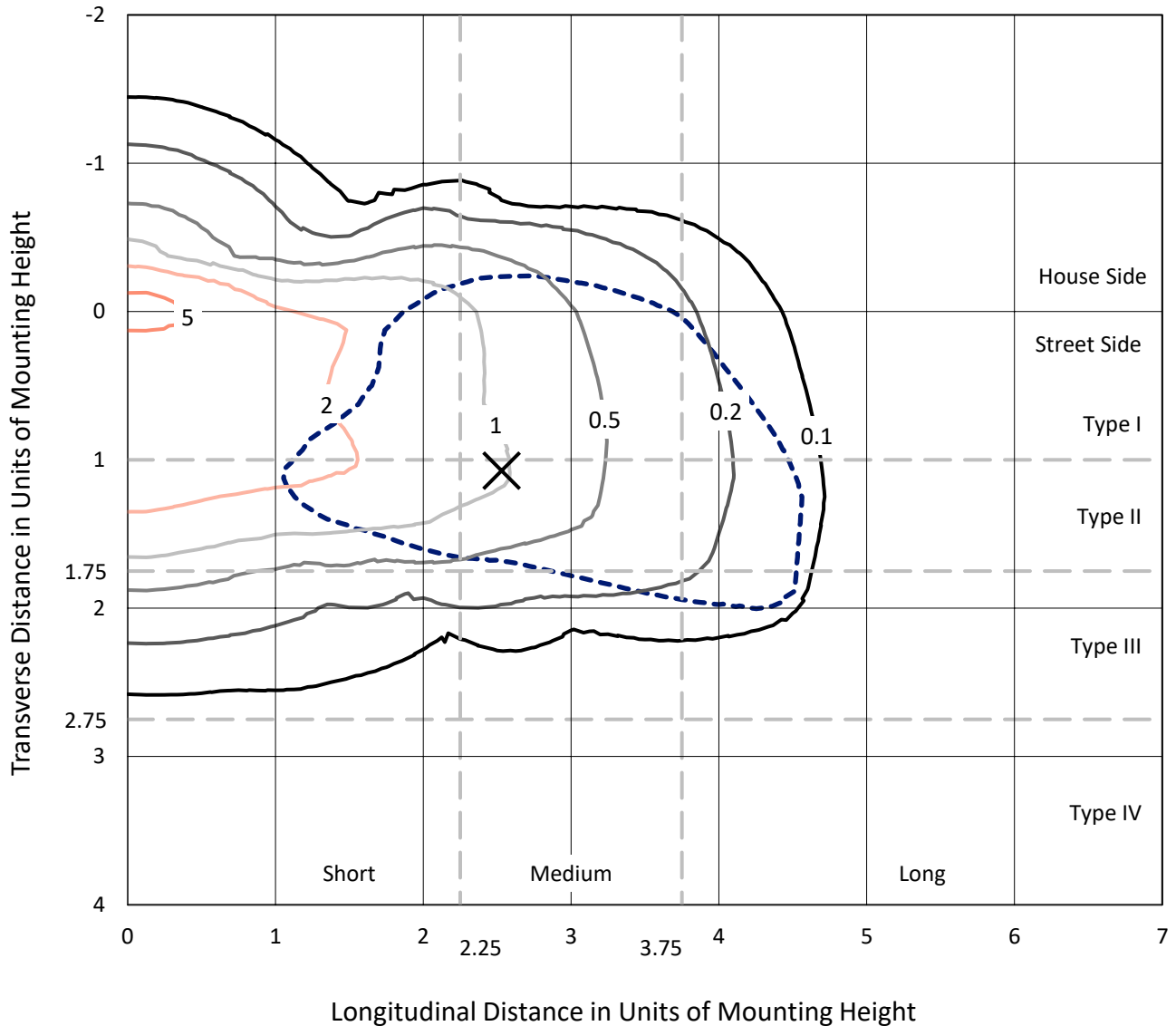
Lumens per Lamp: N/A
Luminaire Lumens: 17082.6 lumens
Efficiency: N/A
Efficacy: 92.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G3

Input Watts (W): 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

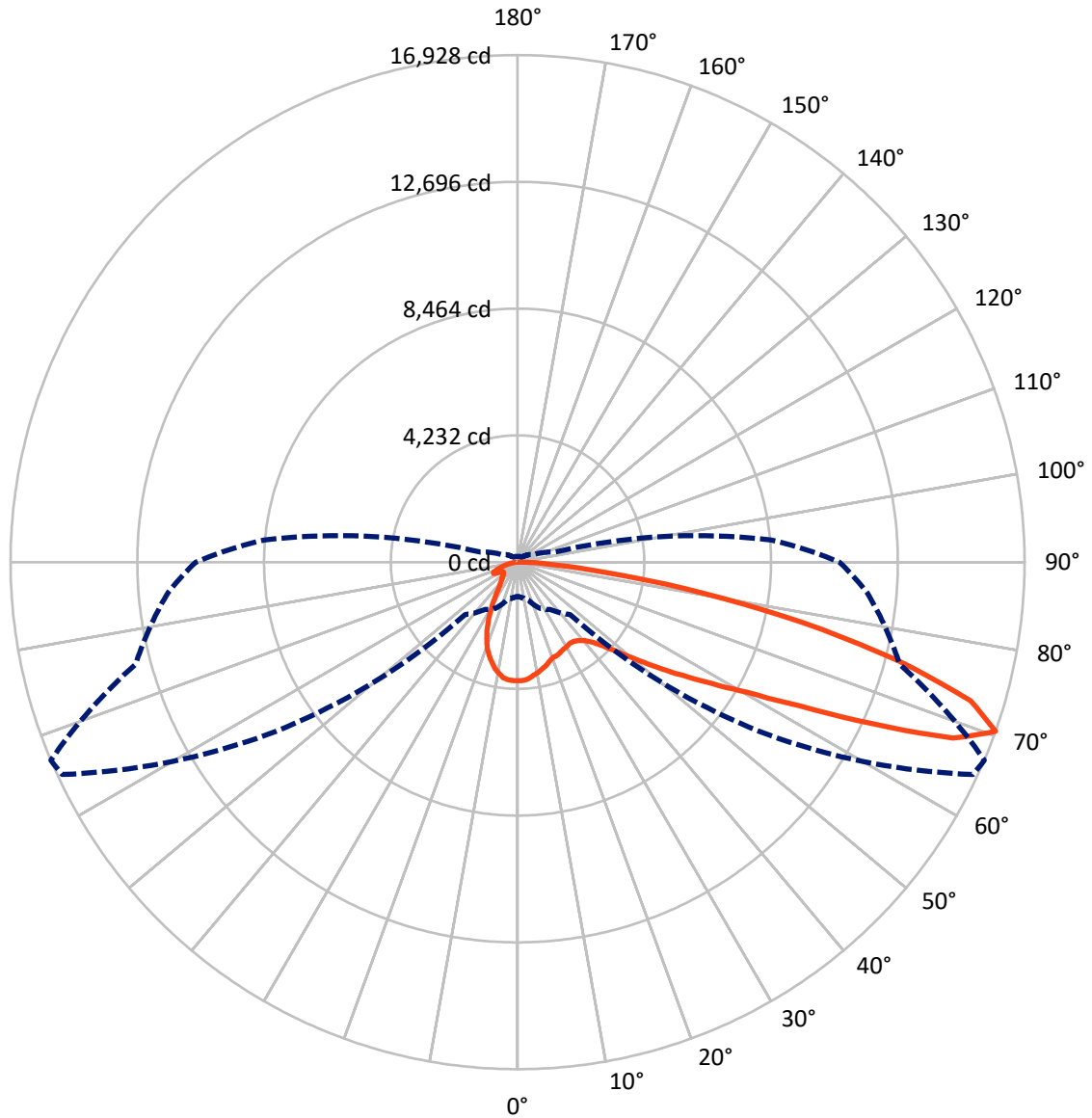
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.4 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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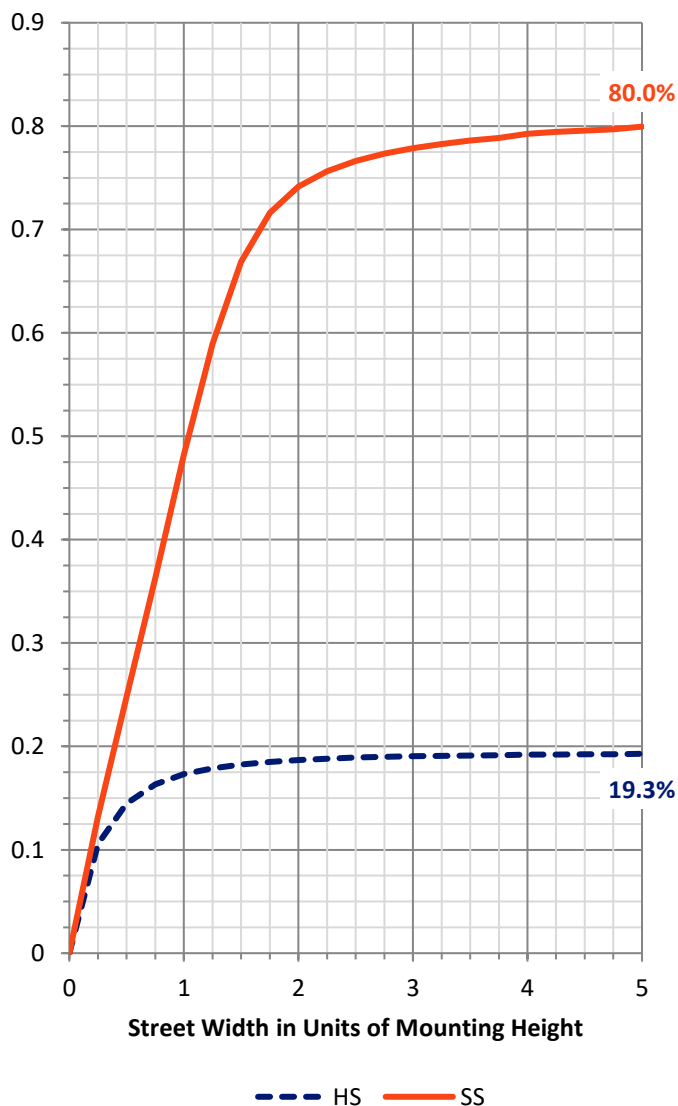
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3327.0	0.0	3327.0
	% Fixture	19.5	0.0	19.5
Street Side	Lumens	13755.6	0.0	13755.6
	% Fixture	80.5	0.0	80.5
Total	Lumens	17082.6	0.0	17082.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	345.0	2.0
10°-20°	826.4	4.8
20°-30°	1115.9	6.5
30°-40°	1493.2	8.7
40°-50°	2195.8	12.9
50°-60°	3422.7	20.0
60°-70°	4216.2	24.7
70°-80°	2979.1	17.4
80°-90°	488.3	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°	17082.6	100.0
0°-180°	17082.6	100.0

Coefficient of Utilization



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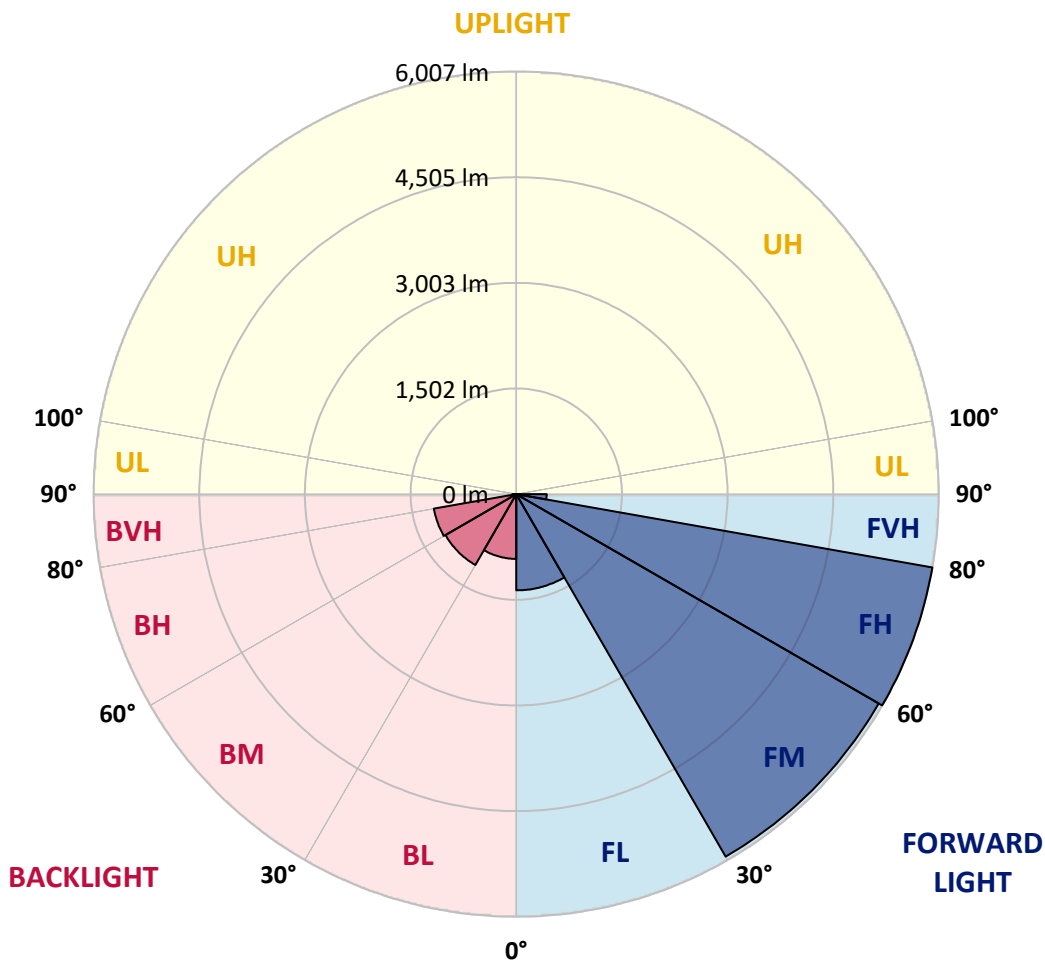
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1367.3	8.0			
FM (30°-60°)	5949.5	34.8			
FH (60°-80°)	6006.8	35.2			G3/7500
FVH (80°-90°)	432.0	2.5			G3/500
BL (0°-30°)	920.0	5.4	B2/1000		
BM (30°-60°)	1162.2	6.8	B2/2500		
BH (60°-80°)	1188.4	7.0	B3/2500		G3/2500
BVH (80°-90°)	56.3	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°	3954.6	3954.6	3954.6	3954.6	3954.6	3954.6	3954.6	3954.6	3954.6	3954.6	3954.6
2.5°	3682.2	3723.8	3739.0	3761.7	3820.3	3863.8	3890.3	3920.5	3956.5	3986.7	4005.6
5°	3425.0	3447.7	3483.6	3508.2	3582.0	3699.2	3778.7	3907.3	3903.5	3950.8	4022.6
7.5°	3175.4	3198.1	3215.1	3264.3	3370.2	3476.1	3621.7	3829.7	3814.6	3924.3	4035.9
10°	3020.3	3003.3	3008.9	3092.2	3175.4	3294.5	3478.0	3689.8	3744.6	3914.8	4073.7
12.5°	2874.7	2855.8	2901.1	2954.1	3056.2	3164.0	3383.4	3574.4	3657.6	3880.8	4090.7
15°	2783.9	2770.7	2827.4	2850.1	2971.1	3099.7	3254.8	3487.4	3578.2	3839.2	4064.3
17.5°	2732.8	2744.2	2765.0	2814.2	2891.7	3001.4	3171.6	3428.8	3468.5	3788.1	4058.6
20°	2742.3	2755.5	2757.4	2778.2	2831.2	2916.3	3090.3	3366.4	3392.9	3778.7	4073.7
22.5°	2817.9	2799.0	2806.6	2793.3	2808.5	2874.7	3027.9	3283.2	3385.3	3699.2	4041.6
25°	2931.4	2904.9	2901.1	2855.8	2827.4	2846.3	3016.5	3262.4	3328.6	3674.7	4039.7
27.5°	3131.9	3092.2	3092.2	3024.1	2908.7	2878.5	2984.4	3228.3	3287.0	3652.0	3996.2
30°	3324.8	3324.8	3326.7	3230.2	3101.6	2952.2	2997.6	3215.1	3252.9	3583.9	3937.5
32.5°	3559.3	3553.6	3544.2	3496.9	3298.3	3075.1	3061.9	3198.1	3217.0	3561.2	3920.5
35°	3788.1	3773.0	3846.8	3805.2	3602.8	3315.3	3128.1	3205.6	3247.2	3527.1	3867.6
37.5°	3960.2	3969.7	4122.9	4149.4	3975.4	3587.7	3315.3	3281.3	3321.0	3576.3	3867.6
40°	4183.4	4221.2	4365.0	4453.8	4347.9	3947.0	3612.2	3408.0	3436.4	3686.0	3950.8
42.5°	4476.5	4508.7	4692.1	4807.5	4777.2	4404.7	3905.4	3672.8	3650.1	3869.5	4075.6
45°	4864.2	4869.9	5055.3	5214.1	5276.5	4883.2	4370.6	4007.5	3988.6	4185.3	4304.4
47.5°	5325.7	5320.0	5435.4	5605.6	5773.9	5454.3	4905.9	4516.3	4448.2	4637.3	4684.6
50°	5772.0	5747.4	5773.9	5991.4	6314.8	6169.2	5556.4	5138.5	5070.4	5174.4	5255.7
52.5°	6017.9	6048.2	5976.3	6263.8	6889.8	7014.6	6418.8	5881.7	5823.1	5874.2	6016.0
55°	5845.8	5908.2	5860.9	6133.3	7141.3	8045.3	7534.7	6742.2	6666.6	6647.7	6880.3
57.5°	5113.9	5227.4	5236.8	5668.0	7054.3	8843.4	9104.4	7757.8	7644.4	7451.4	7691.6
60°	3926.2	4039.7	4126.7	4637.3	6309.1	9320.0	10923.7	9202.7	8828.3	8329.0	8472.7
62.5°	2751.7	2829.3	2916.3	3230.2	4864.2	9040.1	12497.2	11237.7	10547.4	9253.8	9433.5
65°	2004.7	2065.2	2154.1	2339.5	2988.1	7479.8	13227.3	13654.7	13000.3	10430.1	10407.4
67.5°	1509.2	1547.0	1664.3	1961.2	2070.9	4620.3	12470.8	16207.8	15678.3	11737.0	11190.4
70°	1142.3	1174.5	1284.1	1690.8	1934.7	2477.5	9838.2	16777.1	16928.4	13202.7	11716.2
72.5°	786.8	822.7	945.6	1409.0	1842.1	1965.0	6174.9	15241.4	15814.5	13806.0	11152.6
75°	482.3	506.8	578.7	1068.5	1828.8	1921.5	3398.5	12489.7	13096.8	12756.3	9756.9
77.5°	340.4	338.5	351.8	626.0	1584.9	1932.8	2095.5	9151.7	9741.7	9401.3	6621.2
80°	247.8	249.6	262.9	374.5	1076.1	1965.0	1651.0	6129.5	6305.4	4902.1	2611.8
82.5°	149.4	157.0	189.1	253.4	646.8	1774.0	1526.2	3406.1	3186.7	1573.5	718.7
85°	79.4	79.4	111.6	160.8	344.2	1323.9	1469.5	1620.8	1357.9	487.9	266.7
87.5°	18.9	18.9	32.2	64.3	138.1	633.6	1002.4	644.9	516.3	164.5	109.7
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°	3954.6	3954.6	3954.6	3954.6	3954.6	3954.6	3954.6	3954.6	3954.6	3954.6	3954.6
2.5°	3998.1	3975.4	4003.7	3947.0	3901.6	3903.5	3833.5	3829.7	3820.3	3771.1	3788.1
5°	4043.4	4024.5	3992.4	3930.0	3829.7	3729.5	3669.0	3591.4	3559.3	3542.3	3549.8
7.5°	4086.9	4052.9	3960.2	3873.2	3718.2	3529.0	3419.3	3315.3	3182.9	3167.8	3141.3
10°	4098.3	4026.4	3907.3	3721.9	3515.8	3305.9	3056.2	2863.3	2761.2	2681.8	2651.5
12.5°	4081.3	4051.0	3822.2	3583.9	3271.8	2942.8	2651.5	2379.2	2190.0	2091.7	2065.2
15°	4079.4	4026.4	3727.6	3374.0	2974.9	2545.6	2131.4	1804.2	1605.7	1524.3	1524.3
17.5°	4081.3	3954.6	3616.0	3162.1	2625.0	2044.4	1588.6	1320.1	1210.4	1199.0	1208.5
20°	4043.4	3901.6	3498.8	2912.5	2186.3	1535.7	1153.7	1044.0	1044.0	1059.1	1064.8
22.5°	4009.4	3822.2	3313.4	2604.2	1739.9	1112.0	938.1	905.9	941.8	968.3	979.7
25°	3962.1	3756.0	3124.3	2284.6	1323.9	896.4	815.1	822.7	856.7	904.0	900.2
27.5°	3894.0	3640.6	2899.3	1913.9	985.3	773.5	752.7	756.5	792.4	813.2	809.4
30°	3816.5	3523.4	2691.2	1545.1	781.1	709.2	707.3	716.8	722.4	733.8	731.9
32.5°	3718.2	3368.3	2469.9	1200.9	703.5	673.3	665.7	660.0	665.7	663.8	658.1
35°	3648.2	3285.1	2244.9	915.4	660.0	641.1	635.5	626.0	618.4	607.1	605.2
37.5°	3629.3	3201.9	2008.5	747.0	626.0	616.5	597.6	580.6	571.2	565.5	561.7
40°	3617.9	3147.0	1777.8	656.3	597.6	588.2	565.5	542.8	533.3	527.7	529.5
42.5°	3657.6	3116.7	1543.2	610.9	573.0	556.0	531.4	505.0	503.1	499.3	505.0
45°	3797.6	3154.6	1325.8	578.7	548.5	520.1	487.9	474.7	472.8	469.0	472.8
47.5°	4115.3	3249.1	1140.4	557.9	522.0	497.4	463.4	444.4	442.5	440.7	440.7
50°	4554.1	3540.4	985.3	533.3	505.0	470.9	438.8	418.0	414.2	406.6	406.6
52.5°	5242.5	4030.2	892.7	520.1	474.7	446.3	412.3	389.6	380.1	372.6	372.6
55°	6017.9	4637.3	875.6	497.4	442.5	416.1	385.8	363.1	353.7	344.2	340.4
57.5°	6901.1	5441.1	996.7	482.3	419.9	385.8	351.8	331.0	323.4	313.9	310.2
60°	7723.8	6243.0	1373.0	459.6	399.0	357.4	323.4	302.6	293.1	283.7	283.7
62.5°	8675.1	7235.8	2010.4	459.6	380.1	327.2	293.1	278.0	272.3	262.9	261.0
65°	9800.4	8262.8	2475.6	487.9	374.5	300.7	264.8	249.6	244.0	238.3	236.4
67.5°	10657.1	8852.8	2129.5	563.6	399.0	278.0	236.4	226.9	223.2	217.5	213.7
70°	10747.9	8493.5	1284.1	609.0	423.6	255.3	211.8	202.4	202.4	196.7	192.9
72.5°	9932.7	7536.6	864.3	542.8	383.9	228.8	187.2	179.7	175.9	172.1	170.2
75°	8312.0	6392.4	682.7	433.1	295.0	189.1	162.6	155.1	149.4	147.5	143.7
77.5°	5582.9	4155.0	505.0	338.5	217.5	153.2	136.2	128.6	122.9	121.0	115.4
80°	2144.7	1583.0	325.3	245.9	153.2	121.0	107.8	100.2	96.5	90.8	87.0
82.5°	631.7	512.5	181.6	151.3	98.3	83.2	77.5	71.9	66.2	60.5	58.6
85°	261.0	234.5	111.6	79.4	60.5	49.2	45.4	39.7	34.0	30.3	26.5
87.5°	121.0	100.2	51.1	30.3	20.8	11.3	5.7	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)