

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: P285831

Luminaire Tested: **USSL-XL-C049-D-U-T4-BZ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P285831
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1902-125-9)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: USSL-XL-C049-D-U-T4-BZ
Description: PREVAIL XL AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 4000K LEDS AND TYPE IV OPTICS, GRAY PAINTED FINISH
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32894 lumens
Efficiency: N/A
Efficacy: 151.6 lumens/watt
Luminous Opening: Rectangular (W 1.29' x L: 1.79' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

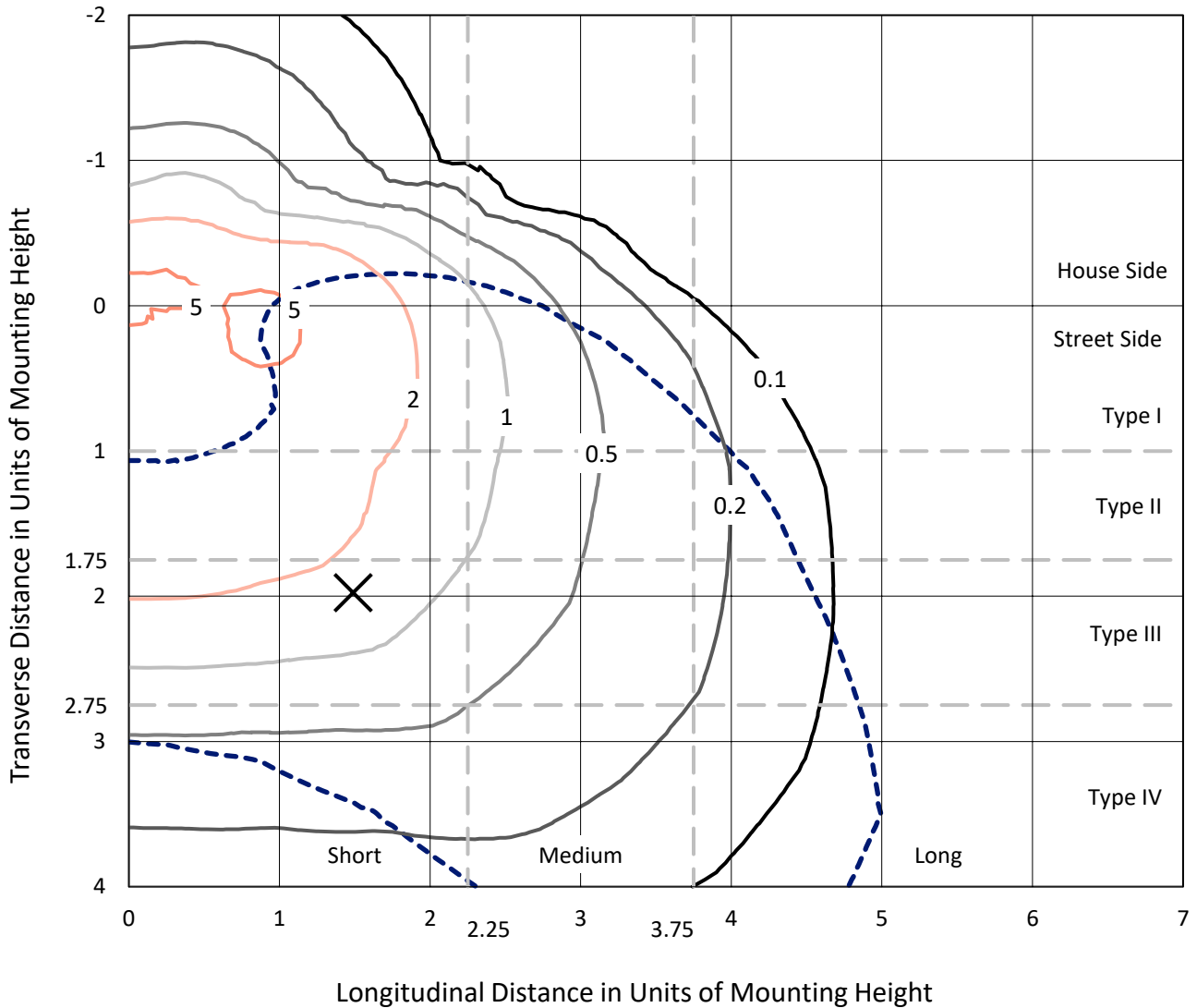
Input Watts (W): 217
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P285831
 CATALOG NUMBER: USSL-XL-C049-D-U-T4-BZ

Iso-Footcandle Lines of Horizontal Illumination

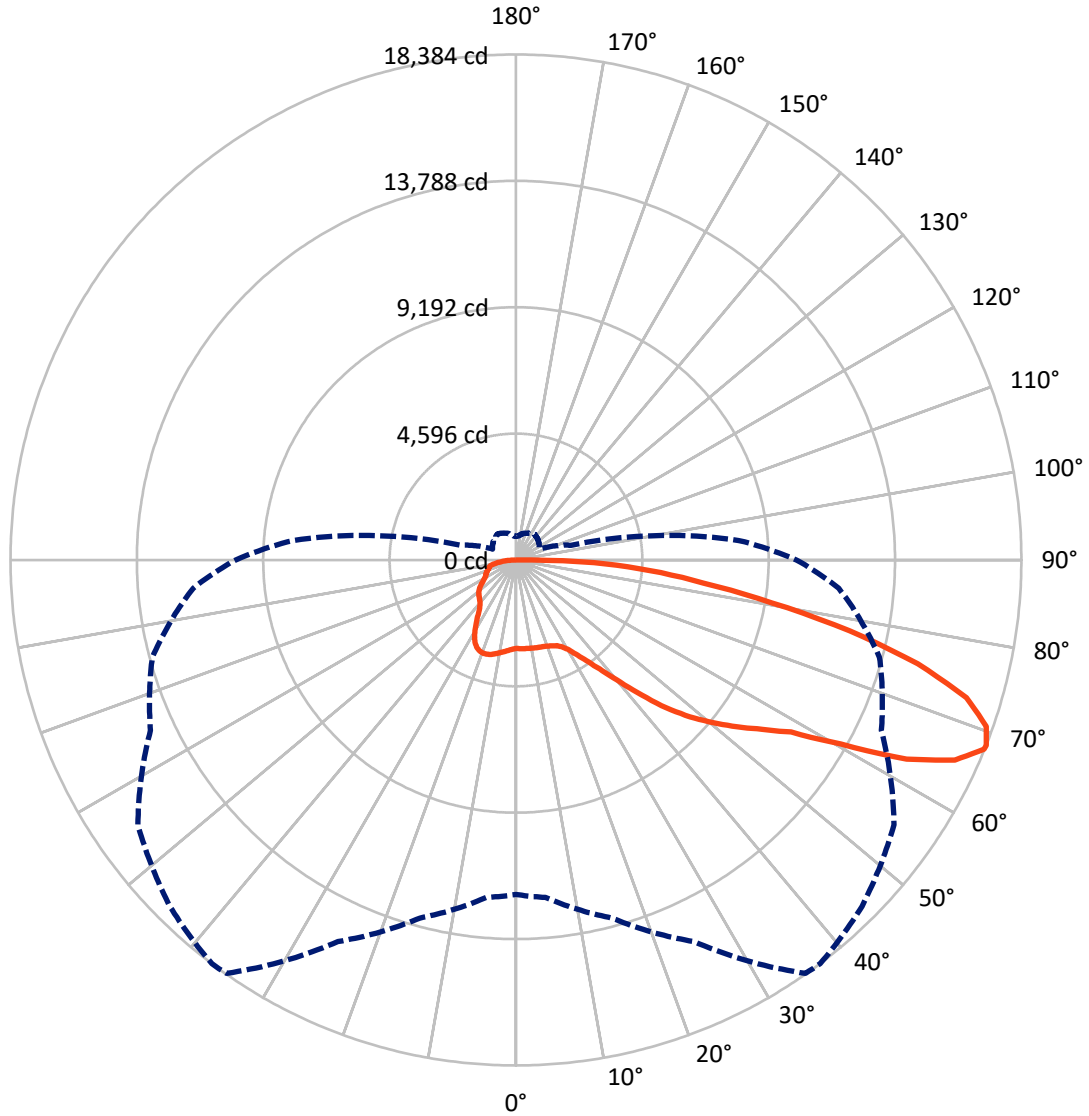
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.1 fc
 Type IV - Short - N/A

REPORT NUMBER: P285831
CATALOG NUMBER: USSL-XL-C049-D-U-T4-BZ

Luminous Intensity Polar Plot



— Vertical Plane Through 37-Deg Lateral - - - Horizontal Cone Through 68-Deg Vertical

REPORT NUMBER: P285831

CATALOG NUMBER: USSL-XL-C049-D-U-T4-BZ

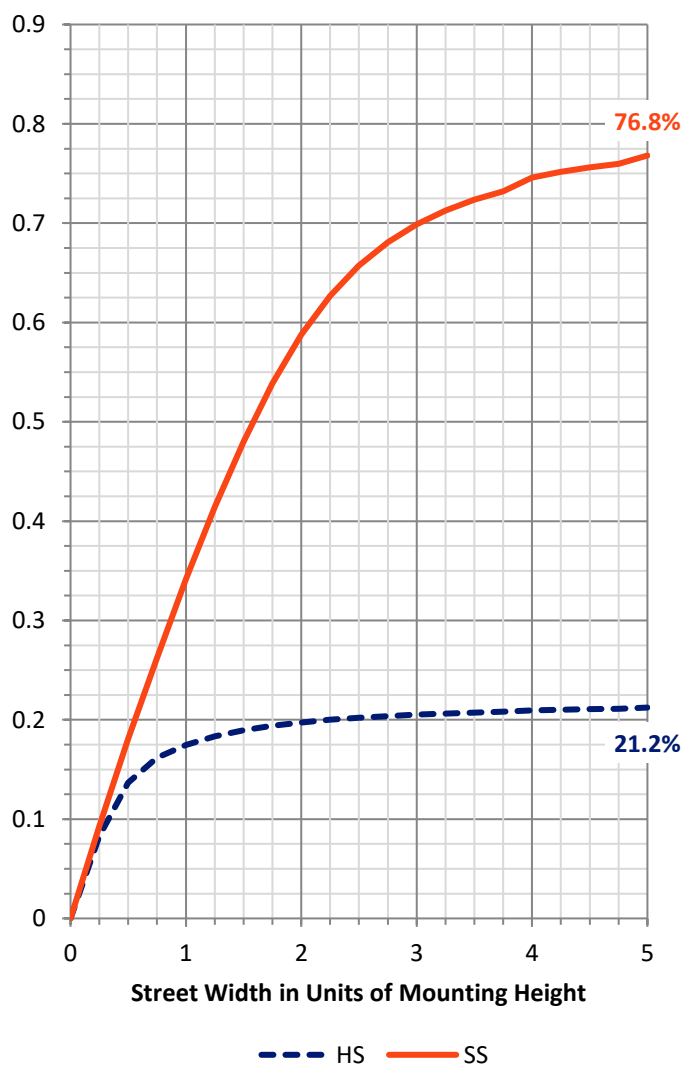
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7102.8	0.0	7102.8
	% Fixture	21.6	0.0	21.6
Street Side	Lumens	25791.2	0.0	25791.2
	% Fixture	78.4	0.0	78.4
Total	Lumens	32894.0	0.0	32894.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	312.4	0.9
10°-20°	970.9	3.0
20°-30°	1658.4	5.0
30°-40°	2642.0	8.0
40°-50°	4582.3	13.9
50°-60°	6642.2	20.2
60°-70°	8376.5	25.5
70°-80°	6207.0	18.9
80°-90°	1502.4	4.6
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°	32894.0	100.0
0°-180°	32894.0	100.0

Coefficient of Utilization



REPORT NUMBER: P285831

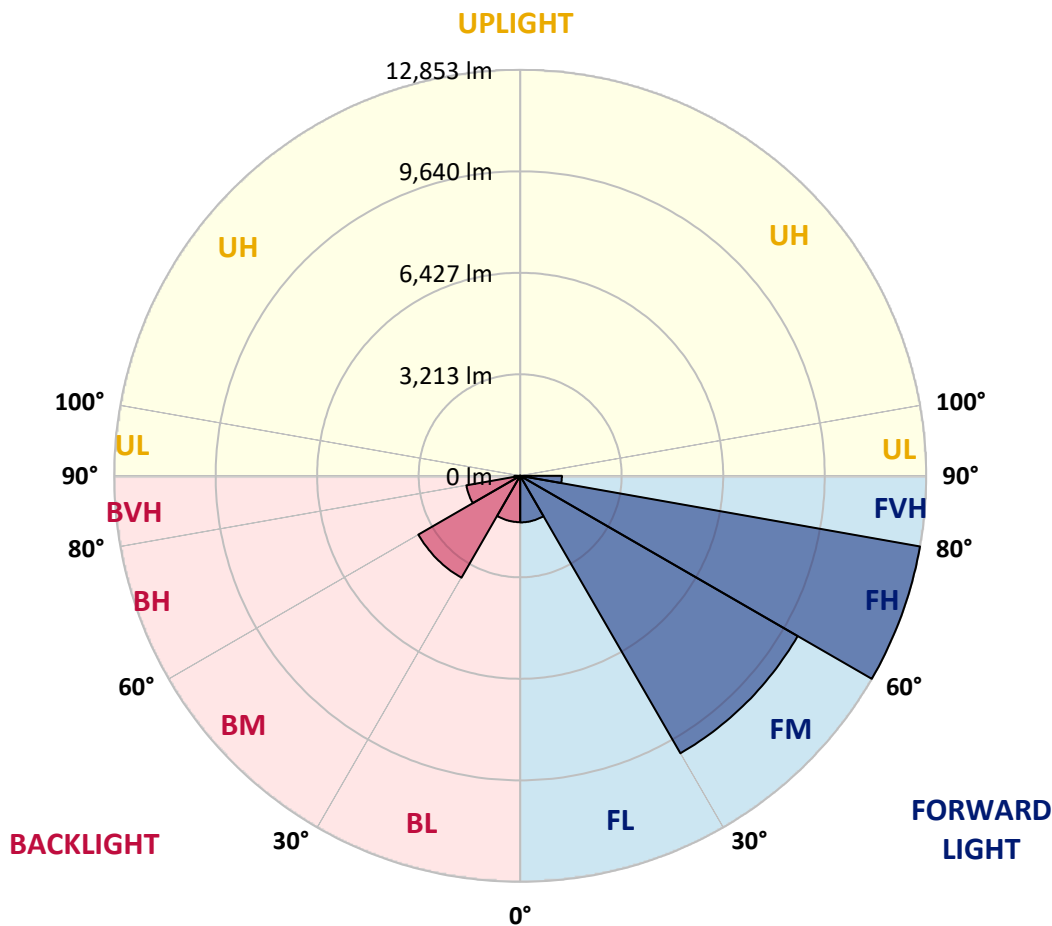
CATALOG NUMBER: USSL-XL-C049-D-U-T4-BZ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1474.6	4.5			
FM (30°-60°)	10143.1	30.8			
FH (60°-80°)	12853.3	39.1			G5
FVH (80°-90°)	1320.3	4.0			G5
BL (0°-30°)	1467.0	4.5	B3/2500		
BM (30°-60°)	3723.4	11.3	B3/5000		
BH (60°-80°)	1730.2	5.3	B3/2500		G3/2500
BVH (80°-90°)	182.1	0.6			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Short





REPORT NUMBER: P285831

CATALOG NUMBER: USSL-XL-C049-D-U-T4-BZ

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	37°	45°	55°	65°	75°	85°
0°	3214.0	3214.0	3214.0	3214.0	3214.0	3214.0	3214.0	3214.0	3214.0	3214.0	3214.0
2.5°	3215.3	3224.1	3226.7	3221.6	3226.7	3231.6	3220.3	3219.0	3214.0	3193.8	3196.3
5°	3216.5	3227.8	3229.1	3225.4	3234.2	3239.2	3234.2	3229.1	3224.1	3195.1	3201.4
7.5°	3216.5	3225.4	3227.8	3225.4	3238.0	3246.8	3246.8	3250.5	3250.5	3217.8	3222.8
10°	3205.1	3212.8	3216.5	3222.8	3244.2	3256.9	3264.4	3282.1	3292.2	3269.5	3270.7
12.5°	3153.5	3159.8	3172.4	3209.0	3259.4	3274.5	3296.0	3327.5	3352.7	3352.7	3355.1
15°	3113.1	3119.5	3143.5	3192.5	3269.5	3289.6	3331.3	3384.2	3430.8	3456.0	3476.2
17.5°	3123.2	3130.8	3166.1	3207.7	3284.6	3304.8	3364.0	3440.9	3517.8	3572.0	3612.2
20°	3154.8	3159.8	3200.2	3248.1	3330.0	3343.8	3401.7	3496.3	3603.4	3692.9	3758.5
22.5°	3244.2	3241.7	3274.5	3293.4	3377.9	3390.4	3457.3	3554.3	3692.9	3827.8	3923.6
25°	3318.7	3330.0	3356.4	3371.5	3440.9	3452.2	3535.4	3642.6	3802.6	3976.5	4130.3
27.5°	3400.6	3410.7	3437.0	3471.2	3568.2	3574.5	3632.5	3764.8	3942.5	4155.5	4401.3
30°	3585.9	3584.6	3611.0	3647.5	3778.6	3790.0	3844.2	3980.3	4145.5	4411.4	4707.5
32.5°	3905.9	3903.4	3907.2	3957.7	4100.0	4126.5	4195.8	4376.1	4582.8	4839.9	5168.9
35°	4562.7	4536.2	4485.7	4445.4	4526.1	4556.3	4707.5	4930.7	5299.9	5805.4	6212.5
37.5°	5647.8	5606.2	5436.1	5205.4	5112.1	5108.4	5214.3	5553.2	6128.0	7141.4	7509.4
40°	6687.7	6688.9	6458.3	6145.7	5854.6	5839.4	5778.9	6198.6	7024.2	8395.5	8568.1
42.5°	7673.3	7667.0	7398.5	7112.4	6764.5	6719.1	6542.7	6865.4	7919.0	9427.7	9461.7
45°	8561.9	8541.6	8253.0	8069.0	7770.3	7679.6	7445.2	7547.2	8757.2	10255.8	10136.0
47.5°	9420.2	9400.0	9039.6	8861.8	8599.7	8524.0	8275.7	8321.1	9558.8	10945.3	10681.8
50°	10306.3	10299.9	9778.1	9605.4	9326.9	9295.4	9145.5	9178.2	10395.7	11518.7	11189.8
52.5°	11356.1	11193.5	10607.5	10277.2	10079.3	10078.1	9910.5	9995.0	11320.9	12030.4	11542.6
55°	12483.0	12277.5	11677.6	11202.4	10862.1	10867.2	10606.2	10742.3	12133.8	12488.0	11880.4
57.5°	13287.0	13244.2	13065.3	12590.0	11886.8	11803.6	11402.7	11509.9	12847.2	12961.8	12123.7
60°	14037.0	14219.7	14339.5	14188.2	13834.0	13593.3	12481.7	12321.5	13476.1	13379.1	12251.1
62.5°	14509.6	14604.2	15162.5	15370.5	15926.3	15945.2	14615.5	13304.7	14011.8	13641.2	12307.8
65°	13989.1	14129.0	15054.1	15867.1	17452.6	17543.4	16982.6	14944.5	14439.0	13732.0	12200.6
67.5°	12537.1	12683.3	13795.0	15462.5	18297.2	18358.8	17776.5	16646.0	14652.1	13713.1	11886.8
68°	12165.3	12321.5	13481.2	15309.9	18355.1	18384.1	17808.1	16787.1	14665.9	13691.7	11784.7
70°	10626.3	10780.1	11954.8	14355.9	18125.7	18144.6	17609.0	16935.9	14594.1	13507.6	11112.8
72.5°	8347.6	8502.6	9429.0	12177.9	16973.7	17138.8	16865.3	16512.4	14290.3	12790.4	9528.6
75°	5915.0	6073.9	7038.1	9531.0	14633.2	15091.9	15637.7	15700.7	13153.5	10984.3	7098.6
77.5°	4170.6	4300.4	5134.8	7125.0	11809.8	12403.5	13540.4	13633.7	11015.9	8381.6	3744.6
80°	2707.3	2818.3	3565.6	5221.8	8927.3	9440.3	10689.4	10303.7	7828.3	4557.6	651.6
82.5°	1634.7	1717.9	2271.3	3612.2	6532.6	6874.2	7383.4	6186.0	3632.5	644.1	228.1
85°	937.7	994.4	1402.8	2320.3	4602.9	4894.1	4964.7	3105.6	683.1	177.7	128.6
87.5°	480.2	509.2	752.4	1425.5	2719.9	2844.7	2490.6	1111.6	136.1	79.4	64.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P285831

CATALOG NUMBER: USSL-XL-C049-D-U-T4-BZ

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3214.0	3214.0	3214.0	3214.0	3214.0	3214.0	3214.0	3214.0	3214.0	3214.0	3214.0
2.5°	3183.7	3192.5	3198.9	3220.3	3243.0	3254.3	3243.0	3260.7	3266.9	3261.9	3254.3
5°	3191.4	3205.1	3215.3	3258.1	3283.4	3302.2	3289.6	3314.8	3323.6	3313.6	3313.6
7.5°	3212.8	3231.6	3248.1	3304.8	3333.7	3358.9	3351.4	3369.0	3376.6	3364.0	3371.5
10°	3269.5	3288.3	3309.7	3380.3	3399.3	3423.3	3409.4	3423.3	3425.7	3416.9	3423.3
12.5°	3367.7	3380.3	3422.0	3493.9	3496.3	3502.7	3473.6	3447.2	3435.9	3419.4	3430.8
15°	3493.9	3516.5	3573.2	3633.8	3617.3	3603.4	3531.6	3445.9	3391.7	3351.4	3348.9
17.5°	3633.8	3674.0	3744.6	3783.7	3745.9	3682.8	3561.9	3416.9	3285.8	3214.0	3191.4
20°	3777.4	3840.4	3918.6	3926.1	3861.9	3740.8	3556.8	3342.6	3125.8	2992.2	2959.5
22.5°	3952.6	4034.5	4105.1	4067.3	3938.7	3761.1	3510.2	3211.5	2914.0	2711.1	2680.8
25°	4184.5	4265.1	4277.8	4166.9	3967.7	3723.2	3403.0	3016.2	2639.3	2387.2	2363.3
27.5°	4464.3	4507.1	4425.2	4218.5	3932.4	3609.8	3220.3	2745.1	2332.9	2113.7	2077.1
30°	4774.3	4759.3	4533.6	4219.8	3829.1	3416.9	2943.0	2437.6	2091.0	1901.9	1866.6
32.5°	5167.6	5068.0	4643.3	4163.1	3658.9	3157.3	2616.6	2191.9	1924.6	1731.8	1697.7
35°	5949.0	5646.5	4792.0	4073.6	3433.3	2845.9	2330.5	2014.1	1782.2	1560.4	1528.9
37.5°	7137.6	6511.2	5060.5	3975.3	3182.5	2527.1	2111.1	1875.5	1670.0	1433.1	1383.9
40°	8180.0	7466.6	5489.0	3883.3	2926.6	2285.1	1985.1	1808.6	1608.3	1368.8	1318.4
42.5°	8980.3	8231.6	5979.3	3773.7	2659.4	2106.1	1932.2	1799.8	1600.7	1368.8	1322.1
45°	9626.9	8863.1	6415.4	3653.9	2401.1	1964.9	1884.3	1783.5	1585.6	1361.2	1317.1
47.5°	10137.3	9334.4	6759.5	3516.5	2132.6	1869.1	1835.1	1726.8	1546.5	1338.5	1294.5
50°	10579.7	9672.2	6952.3	3355.1	1894.4	1793.6	1765.8	1636.0	1468.4	1271.8	1242.7
52.5°	10888.6	9947.1	7025.4	3288.3	1724.2	1707.8	1671.3	1544.0	1383.9	1192.3	1159.5
55°	11120.5	10088.2	6964.9	3135.8	1554.0	1575.5	1559.1	1473.4	1324.7	1143.2	1110.5
57.5°	11239.0	10134.8	6792.3	2561.1	1392.7	1417.9	1429.3	1434.4	1315.9	1157.1	1126.8
60°	11280.5	10061.7	6415.4	1828.9	1220.1	1270.5	1333.5	1352.4	1276.8	1104.1	1078.9
62.5°	11217.5	9871.4	5676.8	1264.1	1088.9	1178.5	1261.7	1256.6	1176.0	1026.0	992.0
65°	10971.8	9405.0	4316.9	1019.6	1044.8	1136.8	1228.8	1167.2	1088.9	950.3	932.7
67.5°	10376.8	8423.2	2421.2	941.5	1031.0	1112.9	1172.1	1097.8	1010.8	879.7	872.2
68°	10200.4	8134.5	2067.0	936.4	1028.5	1105.4	1157.1	1080.1	995.7	868.4	863.4
70°	9171.8	6647.3	932.7	920.1	1013.4	1077.6	1115.4	1031.0	940.2	829.4	821.7
72.5°	7087.2	4116.4	626.4	874.7	975.5	1036.1	1060.0	980.6	904.9	781.5	771.4
75°	4200.9	1131.9	593.6	796.6	911.3	995.7	1020.9	941.5	852.1	709.6	693.2
77.5°	1033.5	408.4	574.8	708.3	844.4	928.9	969.3	915.0	806.7	639.0	622.6
80°	313.8	325.2	547.0	612.5	760.1	829.4	853.3	853.3	746.2	449.9	473.9
82.5°	206.7	260.9	466.4	460.0	603.7	686.9	641.6	644.1	586.1	200.4	234.4
85°	129.8	213.0	315.1	301.2	384.4	421.0	456.3	468.9	412.2	58.0	3.8
87.5°	66.8	90.7	110.9	118.5	152.5	218.0	292.4	287.3	211.8	51.7	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)