

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: P285790

Luminaire Tested: **USSL-XL-C047-D-U-T3-BZ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P285790
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1902-125-7)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: USSL-XL-C047-D-U-T3-BZ
Description: PREVAIL XL AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 4000K LEDS AND TYPE III OPTICS, GRAY PAINTED FINISH
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27684.6 lumens
Efficiency: N/A
Efficacy: 157.3 lumens/watt
Luminous Opening: Rectangular (W 1.29' x L: 1.79' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

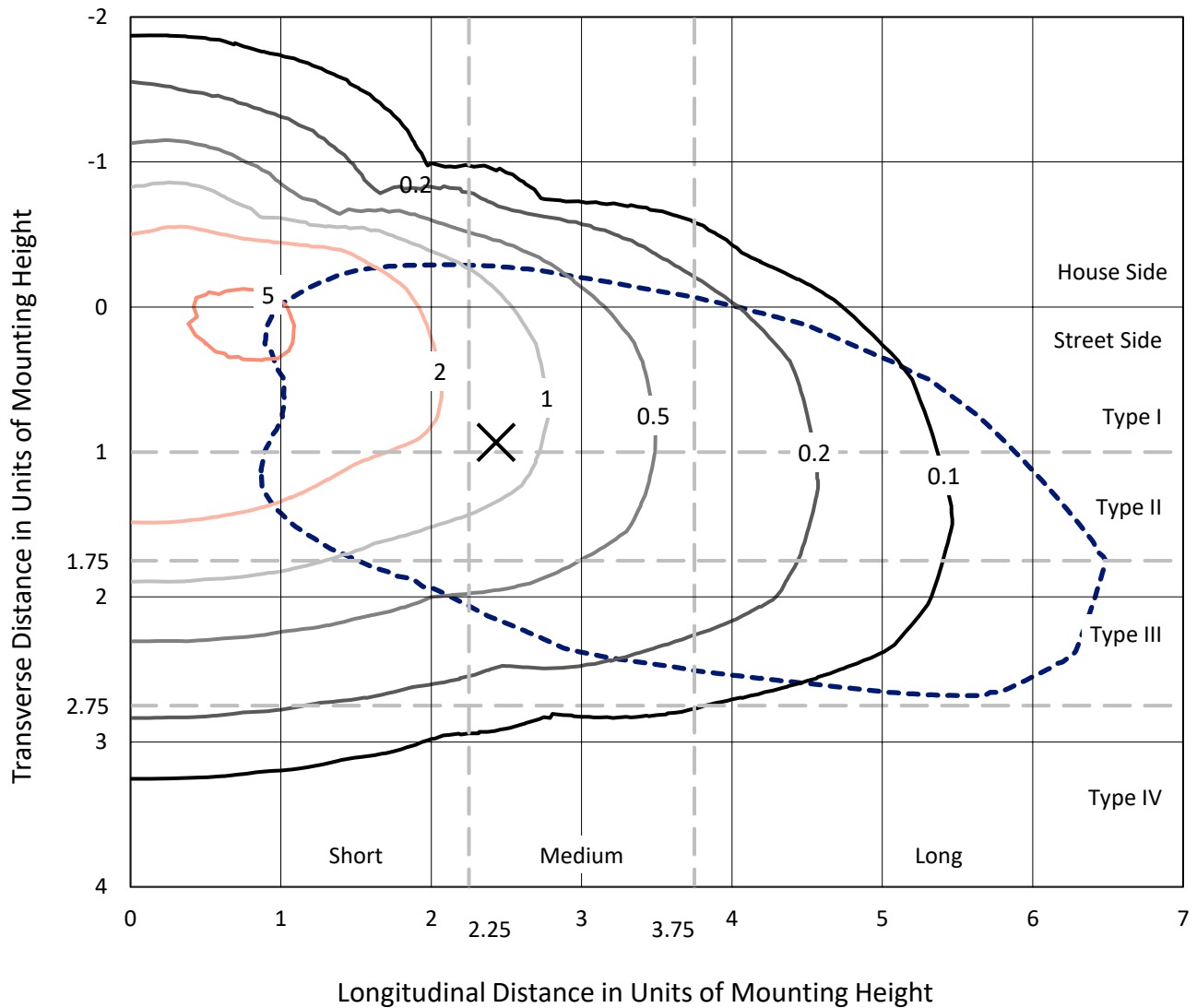
Input Watts (W): 176
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

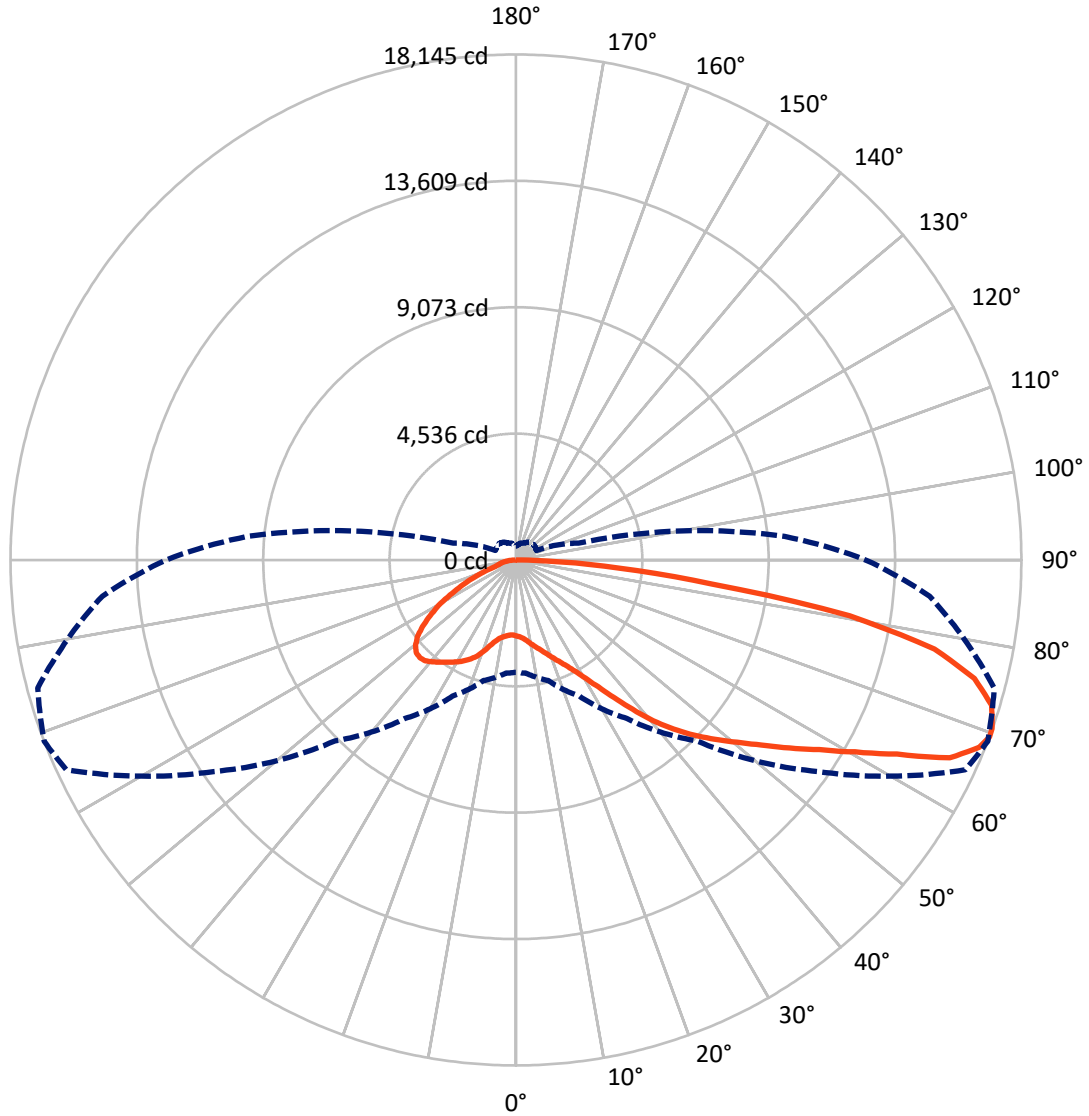
✕ Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 69-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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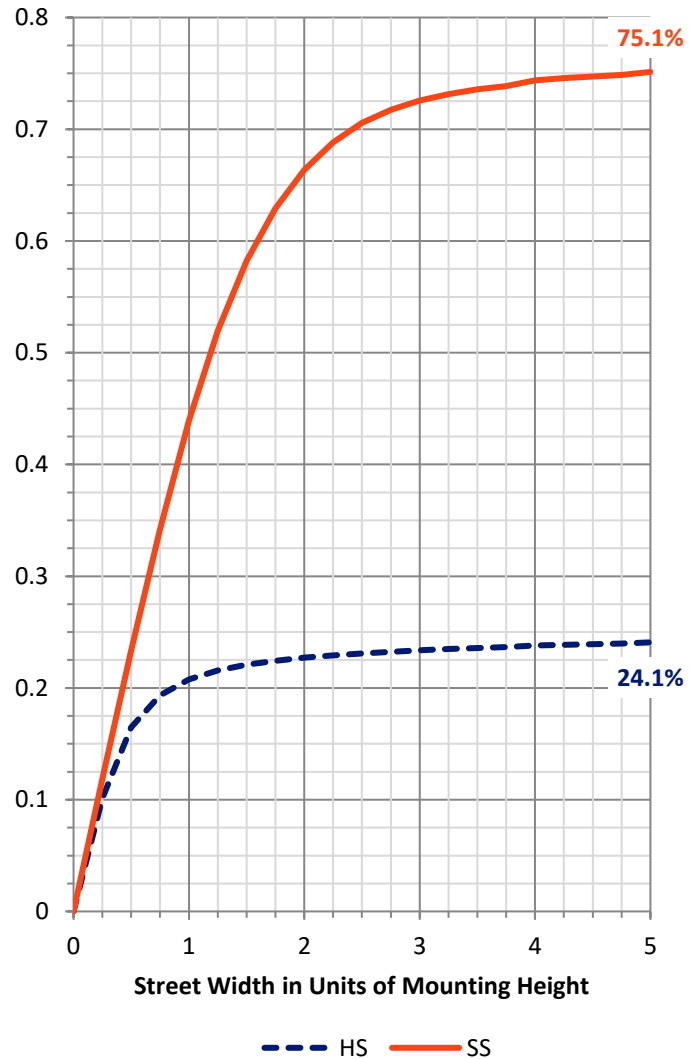
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6806.4	0.0	6806.4
	% Fixture	24.6	0.0	24.6
Street Side	Lumens	20878.3	0.0	20878.3
	% Fixture	75.4	0.0	75.4
Total	Lumens	27684.6	0.0	27684.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	269.1	1.0
10°-20°	876.9	3.2
20°-30°	1642.3	5.9
30°-40°	2790.4	10.1
40°-50°	4281.9	15.5
50°-60°	5594.5	20.2
60°-70°	6370.4	23.0
70°-80°	4809.6	17.4
80°-90°	1049.6	3.8
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°	27684.6	100.0
0°-180°	27684.6	100.0

Coefficient of Utilization



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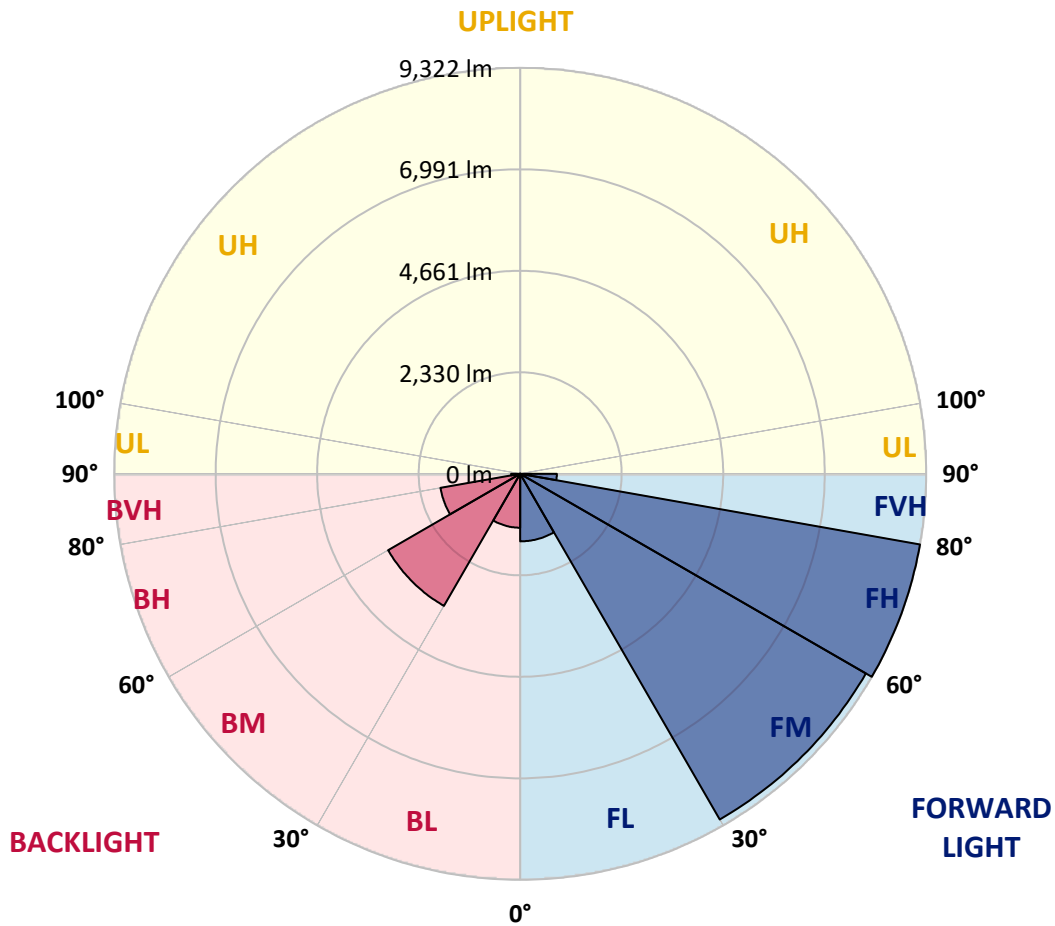
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1550.6	5.6			
FM (30°-60°)	9164.7	33.1			
FH (60°-80°)	9321.5	33.7			G4/12000
FVH (80°-90°)	841.5	3.0			G5
BL (0°-30°)	1237.6	4.5	B3/2500		
BM (30°-60°)	3502.2	12.7	B3/5000		
BH (60°-80°)	1858.5	6.7	B3/2500		G3/2500
BVH (80°-90°)	208.1	0.8			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 III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	69°	75°	85°
0°	2731.4	2731.4	2731.4	2731.4	2731.4	2731.4	2731.4	2731.4	2731.4	2731.4	2731.4
2.5°	2835.2	2843.7	2842.7	2838.4	2836.3	2824.6	2809.8	2790.7	2758.9	2744.1	2725.0
5°	2956.1	2962.4	2963.5	2956.1	2947.6	2929.6	2898.8	2869.1	2834.2	2813.0	2775.9
7.5°	3058.9	3064.2	3073.7	3067.4	3063.1	3048.3	3018.6	2983.6	2938.0	2908.4	2856.4
10°	3141.5	3145.8	3153.2	3163.8	3183.9	3171.2	3136.2	3111.9	3070.5	3025.0	2960.3
12.5°	3200.9	3197.7	3218.9	3238.0	3279.3	3293.1	3268.7	3250.7	3210.4	3163.8	3087.5
15°	3228.5	3227.4	3264.5	3312.2	3373.7	3395.9	3395.9	3375.8	3353.5	3317.5	3236.9
17.5°	3287.8	3292.0	3316.4	3377.9	3443.6	3495.6	3545.4	3547.5	3530.5	3506.1	3422.4
20°	3379.0	3386.4	3399.1	3447.9	3521.0	3612.1	3705.4	3739.3	3730.8	3721.3	3655.6
22.5°	3493.4	3496.6	3493.4	3535.8	3633.3	3756.3	3890.9	3947.1	3952.4	3953.4	3920.6
25°	3676.8	3663.0	3628.0	3666.2	3779.6	3921.6	4085.9	4179.2	4203.6	4225.8	4304.3
27.5°	4011.7	3979.9	3914.2	3901.5	3966.1	4122.0	4325.5	4481.3	4516.2	4577.7	4786.5
30°	4552.3	4509.9	4448.4	4260.8	4235.4	4368.9	4627.5	4850.1	4920.1	5106.6	5347.2
32.5°	5100.2	5072.7	5003.8	4823.6	4632.8	4682.6	4937.0	5284.7	5435.2	5812.5	6035.1
35°	5570.8	5557.1	5517.8	5429.9	5208.3	5068.4	5290.0	5773.3	6054.1	6643.3	6843.7
37.5°	6024.5	6018.1	6020.2	5900.5	5807.2	5605.8	5694.8	6343.4	6804.5	7513.5	7648.1
40°	6420.8	6423.9	6456.8	6401.7	6385.8	6260.7	6171.8	6951.8	7583.5	8374.2	8406.0
42.5°	6746.2	6749.3	6902.0	6819.3	6917.9	6890.3	6762.1	7519.9	8300.0	9070.5	9066.3
45°	6960.3	6965.6	7116.1	7182.8	7391.6	7482.8	7387.4	8102.8	8968.8	9714.9	9631.2
47.5°	7119.2	7115.0	7200.9	7470.1	7826.2	8006.4	8041.4	8765.3	9617.4	10311.7	10166.5
50°	7205.1	7214.6	7378.9	7738.2	8263.9	8515.1	8707.0	9547.5	10283.0	10887.2	10682.6
52.5°	7259.1	7306.8	7547.4	7974.6	8659.3	9052.5	9293.1	10414.5	11033.5	11485.0	11229.5
55°	7297.3	7384.2	7621.6	8098.6	8905.2	9488.1	9843.2	11309.0	11919.5	12162.2	11829.4
57.5°	7024.9	7108.6	7494.4	8117.7	9099.1	9846.4	10429.3	12253.4	12843.8	12997.4	12423.0
60°	6559.6	6609.4	7106.5	7968.2	9056.7	10171.8	11198.8	13373.7	13991.6	14003.3	13048.3
62.5°	6080.6	6100.8	6603.1	7578.2	8866.0	10278.8	11968.3	14867.1	15352.5	15204.2	13712.9
65°	5444.7	5467.0	5985.3	6936.9	8404.9	10160.1	12597.9	16441.1	17120.5	16724.1	14372.1
67.5°	4613.7	4662.5	5143.7	6025.5	7584.5	9701.2	13049.4	17525.3	17941.9	17600.6	14827.9
69°	4031.9	4077.4	4481.3	5394.9	6945.4	9183.9	13239.1	17811.5	18145.4	17773.4	14904.2
70°	3613.2	3648.2	4026.6	4923.2	6445.1	8741.9	13280.4	17888.9	18134.8	17779.7	14862.9
72.5°	2575.6	2605.2	2810.9	3444.7	4885.1	7322.7	13078.0	17679.0	17859.2	17347.3	14321.3
75°	1904.6	1928.0	2050.9	2275.6	2843.7	5181.9	11816.7	16806.7	16998.6	16401.8	13192.5
77.5°	1382.1	1401.2	1519.9	1739.3	2001.1	2439.9	8191.9	15168.1	15356.8	14877.7	11356.7
80°	943.3	963.4	1070.5	1256.0	1462.7	1623.8	4022.3	11101.3	12141.0	11907.9	8093.3
82.5°	177.0	217.3	460.0	651.8	822.5	879.7	1521.0	6104.0	7092.7	7234.8	4220.5
85°	117.6	127.2	280.9	273.5	268.2	393.2	595.7	2926.4	3702.2	3835.8	1822.0
87.5°	58.3	61.5	83.7	115.5	147.3	177.0	196.1	771.6	1115.0	1195.6	340.2
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°	2731.4	2731.4	2731.4	2731.4	2731.4	2731.4	2731.4	2731.4	2731.4	2731.4	2731.4
2.5°	2717.6	2712.3	2696.4	2690.0	2685.8	2683.7	2658.2	2654.0	2641.3	2632.8	2625.4
5°	2757.9	2749.4	2712.3	2698.5	2677.3	2659.3	2616.9	2598.9	2586.2	2569.2	2561.8
7.5°	2828.9	2814.0	2757.9	2732.4	2695.3	2664.6	2606.3	2578.7	2554.4	2531.0	2526.8
10°	2925.3	2897.8	2820.4	2781.2	2727.1	2691.1	2623.3	2570.3	2534.2	2507.7	2506.7
12.5°	3051.5	3010.1	2916.8	2864.9	2798.1	2743.0	2665.6	2586.2	2526.8	2484.4	2482.3
15°	3202.0	3158.5	3064.2	2997.4	2919.0	2844.8	2720.8	2603.1	2504.5	2436.7	2428.2
17.5°	3386.4	3345.0	3259.2	3205.1	3094.9	2948.6	2772.7	2596.8	2455.8	2362.5	2348.7
20°	3619.6	3631.2	3550.7	3433.0	3249.7	3034.5	2798.1	2563.9	2359.3	2229.0	2209.9
22.5°	3944.9	3984.2	3849.6	3633.3	3367.3	3080.1	2787.5	2477.0	2226.8	2068.9	2053.0
25°	4343.5	4331.8	4089.1	3780.7	3427.7	3079.0	2728.2	2353.0	2058.3	1880.3	1868.6
27.5°	4760.0	4690.1	4314.9	3883.5	3438.3	3020.7	2611.6	2166.4	1864.4	1716.0	1681.0
30°	5291.0	5096.0	4545.9	3970.4	3403.3	2909.4	2400.7	1987.3	1753.1	1592.0	1568.7
32.5°	5904.7	5580.4	4805.6	3996.9	3326.0	2738.8	2171.7	1904.6	1679.9	1496.6	1470.1
35°	6617.9	6200.3	5106.6	4006.4	3178.6	2485.5	2047.7	1856.9	1631.2	1423.4	1388.5
37.5°	7364.1	6857.4	5477.6	3995.8	3006.9	2207.8	1960.8	1788.1	1576.1	1406.5	1386.3
40°	8038.2	7490.2	5896.2	3966.1	2771.6	2027.6	1866.5	1692.7	1528.4	1400.1	1384.2
42.5°	8656.1	8041.4	6296.8	3916.3	2478.0	1899.3	1762.6	1621.6	1468.0	1311.1	1279.3
45°	9191.3	8550.1	6593.5	3797.6	2149.5	1767.9	1637.5	1523.1	1377.9	1222.1	1190.3
47.5°	9650.3	8969.8	6826.7	3594.1	1884.5	1645.0	1495.5	1405.4	1278.2	1129.9	1098.1
50°	10118.8	9311.1	6963.4	3258.1	1663.0	1504.0	1354.6	1268.7	1159.5	1051.4	1032.3
52.5°	10621.2	9865.4	7162.7	2704.9	1458.4	1355.6	1205.1	1111.8	1031.3	985.7	967.7
55°	11128.8	10357.2	7235.8	2045.6	1279.3	1239.0	1064.1	943.3	886.1	857.5	853.2
57.5°	11633.4	10777.0	6985.7	1456.3	1160.6	1104.4	913.6	799.2	731.3	751.5	782.2
60°	12149.5	11083.3	6346.6	1139.4	1067.3	943.3	786.4	701.7	672.0	649.7	650.8
62.5°	12626.5	11226.4	5259.2	967.7	977.2	843.7	741.9	659.3	629.6	591.4	579.8
65°	12943.4	10974.1	4105.0	895.6	895.6	818.2	739.8	660.3	620.0	553.3	541.6
67.5°	12852.2	10317.0	3037.7	831.0	843.7	828.8	757.8	658.2	608.4	544.8	540.5
69°	12558.6	9687.4	2332.8	811.9	835.2	838.4	779.0	668.8	621.1	524.7	501.3
70°	12264.0	9201.9	1931.1	796.0	833.1	844.7	796.0	681.5	611.6	492.9	478.0
72.5°	11262.4	7777.4	973.0	734.5	829.9	852.2	833.1	729.2	606.3	474.8	462.1
75°	9901.5	5982.1	624.3	682.6	803.4	860.6	862.8	773.7	608.4	464.2	448.3
77.5°	7933.2	3468.0	518.3	624.3	753.6	843.7	872.3	807.6	633.8	482.3	464.2
80°	4218.4	1371.5	416.5	533.1	690.0	792.8	845.8	796.0	627.5	402.8	391.1
82.5°	1867.5	426.1	305.3	418.7	542.7	693.2	718.6	700.6	549.0	243.8	278.8
85°	524.7	175.9	203.5	301.0	375.2	490.7	562.8	564.9	426.1	106.0	24.4
87.5°	54.1	40.3	59.4	115.5	216.2	340.2	411.2	394.3	285.1	90.1	2.1
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)