

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: P285792

Luminaire Tested: **USSL-XL-C04-D-U-T3-BZ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P285792
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-C04-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: 38478.6 lumens
Efficiency: N/A
Efficacy: 145.8 lumens/watt
Luminous Opening: Rectangular (W 1.29' x L: 1.79' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B4 - U0 - G5

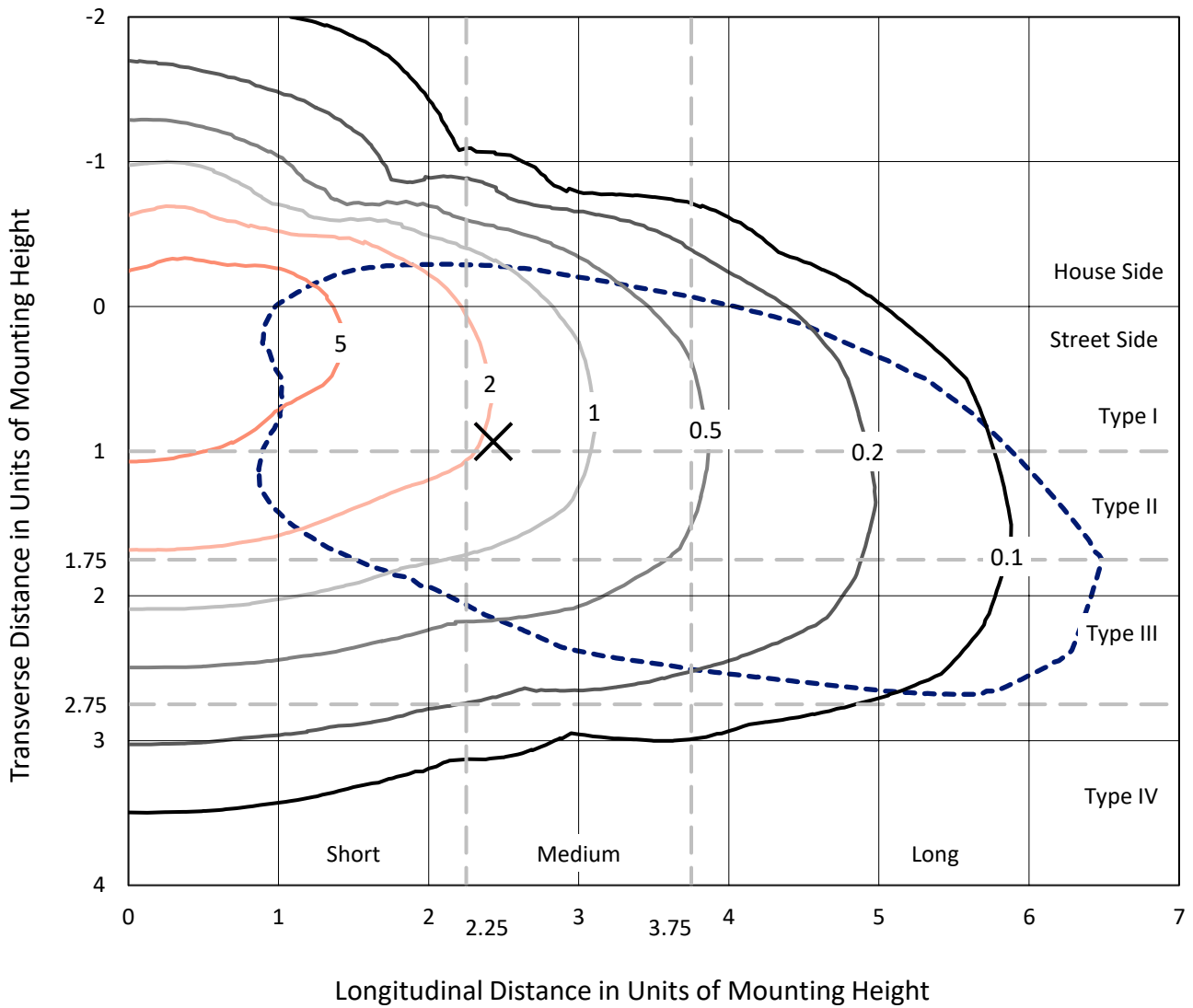
Input Watts (W): 264
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

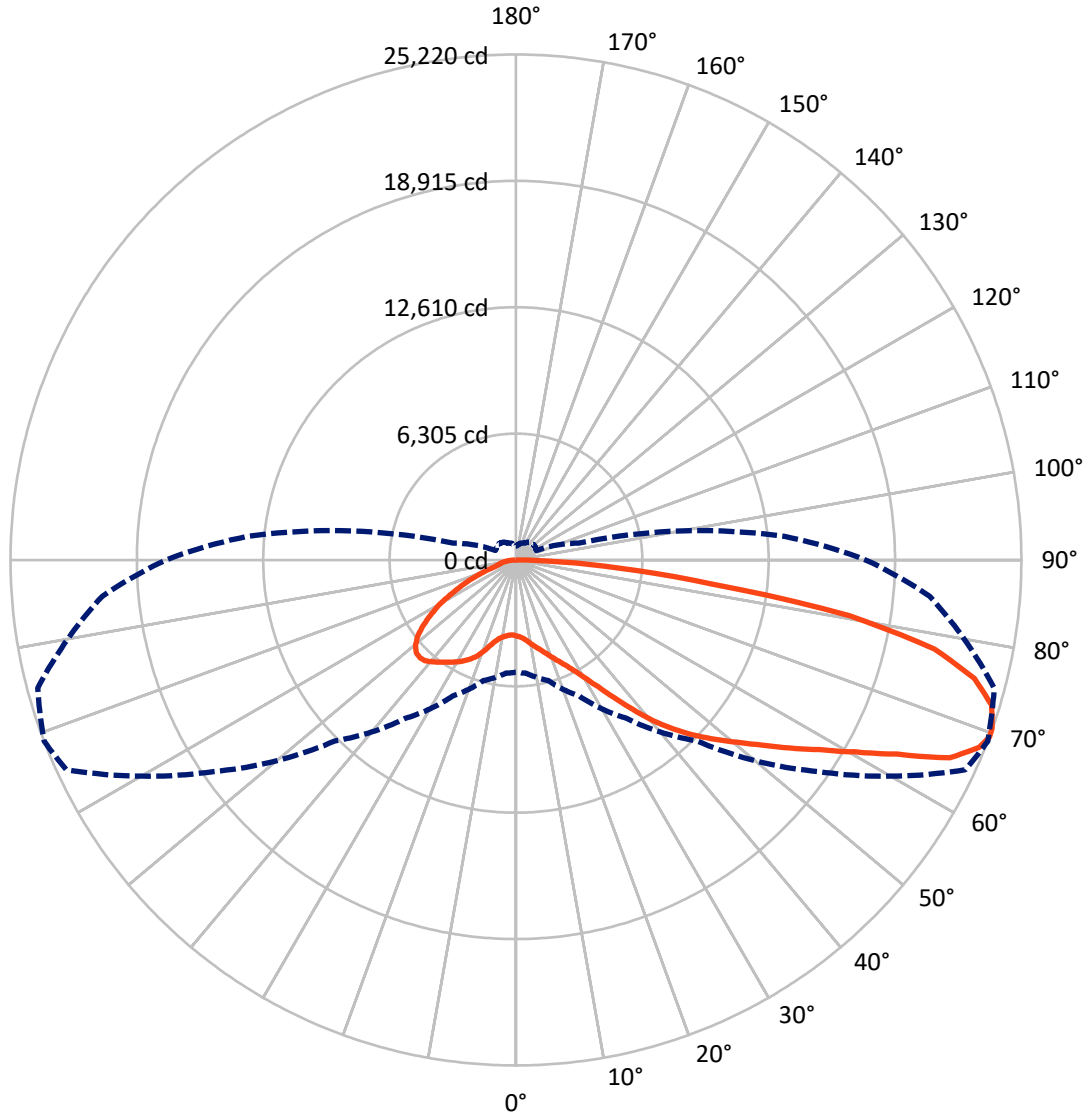
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.4 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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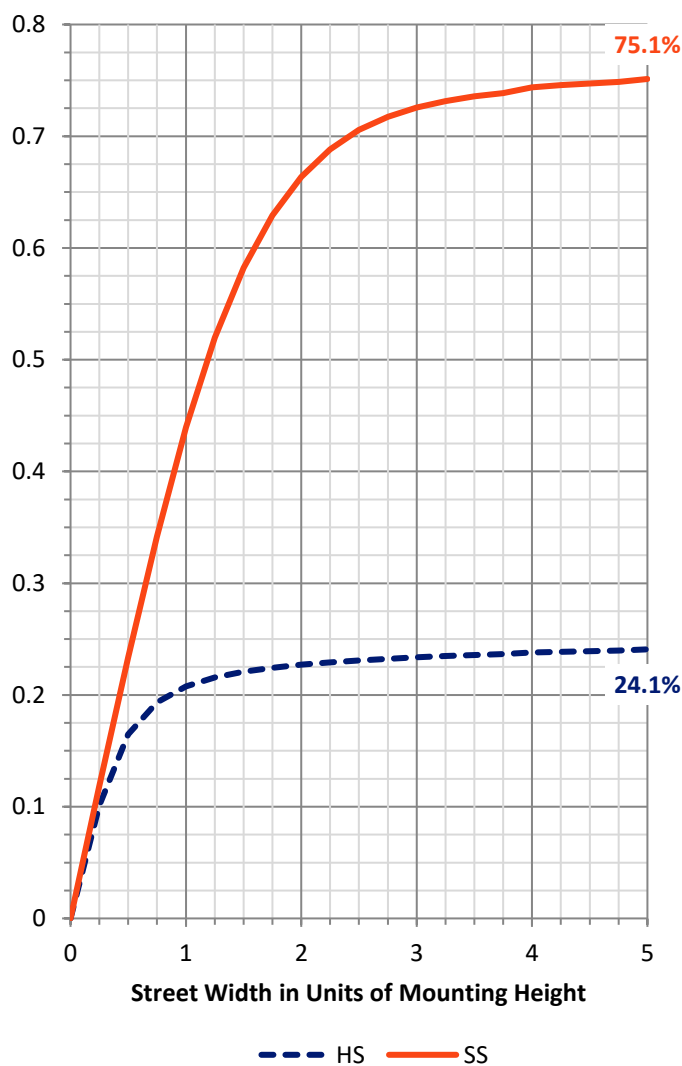
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9460.1	0.0	9460.1
	% Fixture	24.6	0.0	24.6
Street Side	Lumens	29018.5	0.0	29018.5
	% Fixture	75.4	0.0	75.4
Total	Lumens	38478.6	0.0	38478.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	374.0	1.0
10°-20°	1218.7	3.2
20°-30°	2282.5	5.9
30°-40°	3878.3	10.1
40°-50°	5951.4	15.5
50°-60°	7775.8	20.2
60°-70°	8854.2	23.0
70°-80°	6684.8	17.4
80°-90°	1458.9	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°	38478.6	100.0
0°-180°	38478.6	100.0

Coefficient of Utilization



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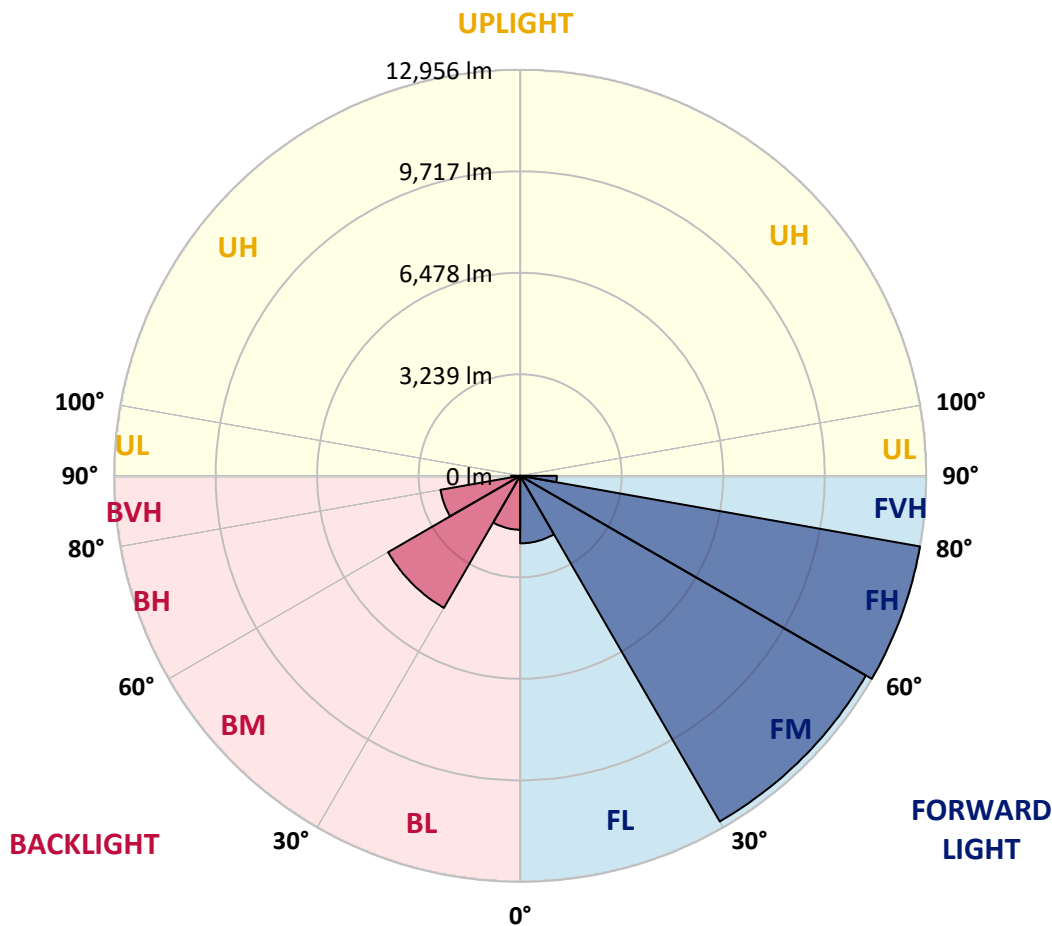
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2155.1	5.6			
FM (30°-60°)	12737.9	33.1			
FH (60°-80°)	12955.9	33.7			G5
FVH (80°-90°)	1169.6	3.0			G5
BL (0°-30°)	1720.1	4.5	B3/2500		
BM (30°-60°)	4867.6	12.7	B3/5000		
BH (60°-80°)	2583.1	6.7	B4/5000		G4/5000
BVH (80°-90°)	289.3	0.8			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	69°	75°	85°
0°	3796.2	3796.2	3796.2	3796.2	3796.2	3796.2	3796.2	3796.2	3796.2	3796.2	3796.2
2.5°	3940.6	3952.5	3951.0	3945.1	3942.1	3925.9	3905.3	3878.8	3834.6	3813.9	3787.4
5°	4108.6	4117.4	4118.9	4108.6	4096.8	4071.7	4029.0	3987.8	3939.1	3909.7	3858.1
7.5°	4251.5	4258.8	4272.1	4263.2	4257.4	4236.7	4195.5	4146.9	4083.5	4042.2	3970.1
10°	4366.4	4372.3	4382.6	4397.3	4425.3	4407.6	4359.1	4325.1	4267.7	4204.3	4114.4
12.5°	4448.8	4444.5	4473.9	4500.4	4557.9	4577.1	4543.2	4518.1	4462.1	4397.3	4291.2
15°	4487.2	4485.7	4537.2	4603.6	4689.0	4719.9	4719.9	4692.0	4661.0	4610.9	4499.0
17.5°	4569.7	4575.6	4609.4	4694.9	4786.2	4858.4	4927.7	4930.5	4907.0	4873.1	4756.7
20°	4696.3	4706.7	4724.3	4792.1	4893.8	5020.4	5150.1	5197.2	5185.5	5172.2	5080.8
22.5°	4855.4	4859.9	4855.4	4914.3	5049.9	5220.7	5407.9	5485.9	5493.4	5494.8	5449.2
25°	5110.3	5091.1	5042.6	5095.6	5253.2	5450.6	5678.9	5808.6	5842.5	5873.4	5982.4
27.5°	5575.8	5531.6	5440.3	5422.7	5512.4	5729.0	6011.9	6228.4	6277.0	6362.5	6652.7
30°	6327.1	6268.1	6182.7	5922.0	5886.7	6072.3	6431.7	6741.1	6838.3	7097.5	7431.9
32.5°	7088.7	7050.5	6954.6	6704.2	6439.1	6508.3	6861.9	7345.0	7554.2	8078.7	8388.0
35°	7742.8	7723.6	7669.1	7546.9	7239.0	7044.5	7352.4	8024.2	8414.5	9233.6	9512.1
37.5°	8373.3	8364.4	8367.4	8201.0	8071.4	7791.4	7915.1	8816.7	9457.5	10443.1	10630.2
40°	8924.3	8928.7	8974.4	8897.8	8875.6	8701.8	8578.1	9662.3	10540.3	11639.2	11683.4
42.5°	9376.5	9381.0	9593.0	9478.2	9615.2	9576.8	9398.6	10451.9	11536.2	12607.1	12601.2
45°	9674.0	9681.4	9890.7	9983.4	10273.6	10400.4	10267.8	11262.1	12465.7	13502.7	13386.3
47.5°	9895.0	9889.2	10008.5	10382.7	10877.6	11128.1	11176.6	12182.8	13367.2	14332.2	14130.3
50°	10014.4	10027.6	10256.0	10755.3	11486.0	11835.2	12101.8	13269.9	14292.3	15132.1	14847.7
52.5°	10089.5	10155.7	10490.1	11083.9	12035.5	12582.1	12916.5	14475.1	15335.4	15962.8	15607.9
55°	10142.5	10263.3	10593.3	11256.2	12377.3	13187.5	13681.0	15718.3	16566.9	16904.2	16441.7
57.5°	9763.9	9880.3	10416.5	11282.7	12646.8	13685.4	14495.6	17030.9	17851.5	18065.0	17266.6
60°	9117.3	9186.5	9877.4	11075.0	12587.9	14137.7	15565.2	18588.0	19446.8	19463.0	18135.7
62.5°	8451.3	8479.4	9177.7	10532.9	12322.8	14286.5	16634.6	20663.7	21338.3	21132.1	19059.4
65°	7567.5	7598.4	8318.8	9641.7	11682.0	14121.5	17509.7	22851.2	23795.5	23244.6	19975.7
67.5°	6412.6	6480.3	7149.1	8374.8	10541.8	13483.6	18137.2	24358.3	24937.2	24462.9	20609.1
69°	5603.8	5667.2	6228.4	7498.3	9653.5	12764.7	18400.9	24756.0	25220.1	24703.0	20715.2
70°	5021.9	5070.6	5596.5	6842.7	8958.2	12150.4	18458.4	24863.6	25205.4	24711.9	20657.8
72.5°	3579.7	3620.9	3906.8	4787.7	6789.7	10177.9	18177.0	24571.9	24822.3	24110.8	19905.0
75°	2647.2	2679.6	2850.5	3162.8	3952.5	7202.1	16424.0	23359.5	23626.1	22796.8	18336.1
77.5°	1921.0	1947.5	2112.5	2417.4	2781.3	3391.2	11385.9	21082.0	21344.3	20678.4	15784.7
80°	1311.1	1339.1	1487.9	1745.7	2032.9	2256.8	5590.5	15429.6	16874.8	16550.7	11248.8
82.5°	246.0	302.0	639.3	906.0	1143.1	1222.7	2114.0	8483.8	9858.2	10055.6	5866.0
85°	163.5	176.8	390.4	380.1	372.7	546.5	827.9	4067.4	5145.7	5331.3	2532.3
87.5°	81.0	85.4	116.4	160.6	204.8	246.0	272.5	1072.4	1549.8	1661.7	472.9
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°	3796.2	3796.2	3796.2	3796.2	3796.2	3796.2	3796.2	3796.2	3796.2	3796.2	3796.2
2.5°	3777.2	3769.7	3747.7	3738.8	3733.0	3730.0	3694.6	3688.8	3671.1	3659.3	3648.9
5°	3833.1	3821.4	3769.7	3750.6	3721.1	3696.1	3637.2	3612.1	3594.4	3570.9	3560.5
7.5°	3931.8	3911.1	3833.1	3797.7	3746.2	3703.5	3622.4	3584.2	3550.2	3517.8	3512.0
10°	4065.9	4027.5	3920.0	3865.5	3790.4	3740.3	3646.1	3572.4	3522.3	3485.5	3484.0
12.5°	4241.2	4183.7	4054.1	3981.8	3889.1	3812.5	3705.0	3594.4	3512.0	3453.0	3450.1
15°	4450.3	4389.9	4258.8	4166.0	4057.0	3953.9	3781.5	3618.0	3481.0	3386.7	3374.9
17.5°	4706.7	4649.3	4529.9	4454.8	4301.6	4098.2	3853.7	3609.2	3413.3	3283.6	3264.5
20°	5030.7	5046.9	4935.0	4771.5	4516.7	4217.6	3889.1	3563.5	3279.2	3098.0	3071.5
22.5°	5483.0	5537.6	5350.4	5049.9	4680.2	4280.9	3874.4	3442.8	3095.0	2875.5	2853.5
25°	6036.9	6020.7	5683.4	5254.7	4764.1	4279.5	3791.9	3270.3	2860.8	2613.3	2597.2
27.5°	6615.9	6518.6	5997.1	5397.5	4778.9	4198.5	3629.8	3011.1	2591.2	2385.0	2336.4
30°	7353.9	7082.8	6318.3	5518.4	4730.2	4043.7	3336.7	2762.1	2436.6	2212.6	2180.2
32.5°	8206.8	7756.0	6679.2	5555.1	4622.6	3806.6	3018.5	2647.2	2335.0	2080.1	2043.3
35°	9198.2	8617.8	7097.5	5568.4	4418.0	3454.5	2846.0	2581.0	2267.1	1978.4	1929.8
37.5°	10235.3	9531.2	7613.2	5553.8	4179.3	3068.5	2725.3	2485.1	2190.6	1954.9	1926.9
40°	11172.3	10410.7	8195.0	5512.4	3852.2	2818.1	2594.2	2352.6	2124.3	1946.0	1923.9
42.5°	12031.1	11176.6	8751.9	5443.2	3444.1	2639.9	2449.9	2253.9	2040.3	1822.3	1778.1
45°	12775.0	11883.8	9164.3	5278.2	2987.5	2457.2	2276.0	2116.9	1915.0	1698.5	1654.3
47.5°	13412.9	12467.2	9488.4	4995.4	2619.2	2286.3	2078.6	1953.4	1776.6	1570.3	1526.2
50°	14064.0	12941.5	9678.5	4528.4	2311.3	2090.3	1882.7	1763.4	1611.6	1461.4	1434.8
52.5°	14762.3	13711.9	9955.4	3759.5	2027.1	1884.2	1675.0	1545.3	1433.4	1370.0	1345.0
55°	15467.9	14395.5	10057.1	2843.2	1778.1	1722.1	1479.0	1311.1	1231.5	1191.8	1185.9
57.5°	16169.1	14978.8	9709.4	2024.1	1613.1	1535.1	1269.9	1110.8	1016.4	1044.4	1087.1
60°	16886.5	15404.6	8821.1	1583.6	1483.4	1311.1	1093.1	975.2	934.0	903.0	904.5
62.5°	17549.5	15603.4	7309.7	1345.0	1358.3	1172.6	1031.2	916.3	875.1	822.1	805.8
65°	17989.9	15252.8	5705.4	1244.7	1244.7	1137.3	1028.2	917.8	861.8	769.0	752.7
67.5°	17863.2	14339.5	4222.0	1155.0	1172.6	1152.0	1053.3	914.8	845.6	757.2	751.3
69°	17455.2	13464.4	3242.3	1128.4	1160.8	1165.3	1082.8	929.5	863.3	729.2	696.8
70°	17045.6	12789.7	2684.1	1106.3	1157.8	1174.1	1106.3	947.2	850.0	685.0	664.3
72.5°	15653.6	10809.8	1352.3	1020.9	1153.5	1184.4	1157.8	1013.5	842.6	660.0	642.3
75°	13762.1	8314.4	867.6	948.7	1116.6	1196.2	1199.2	1075.4	845.6	645.3	623.1
77.5°	11026.5	4820.1	720.4	867.6	1047.4	1172.6	1212.4	1122.5	880.9	670.3	645.3
80°	5863.0	1906.2	578.9	741.0	959.0	1101.9	1175.5	1106.3	872.1	559.8	543.6
82.5°	2595.7	592.2	424.3	581.9	754.2	963.4	998.7	973.7	763.1	338.9	387.4
85°	729.2	244.5	282.9	418.3	521.5	682.0	782.2	785.2	592.2	147.3	33.9
87.5°	75.1	56.0	82.5	160.6	300.5	472.9	571.6	548.0	396.3	125.2	3.0
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)