

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: P285791

Luminaire Tested: **USSL-XL-C049-D-U-T3-BZ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P285791
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-C049-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: 32921.5 lumens
Efficiency: N/A
Efficacy: 151.7 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

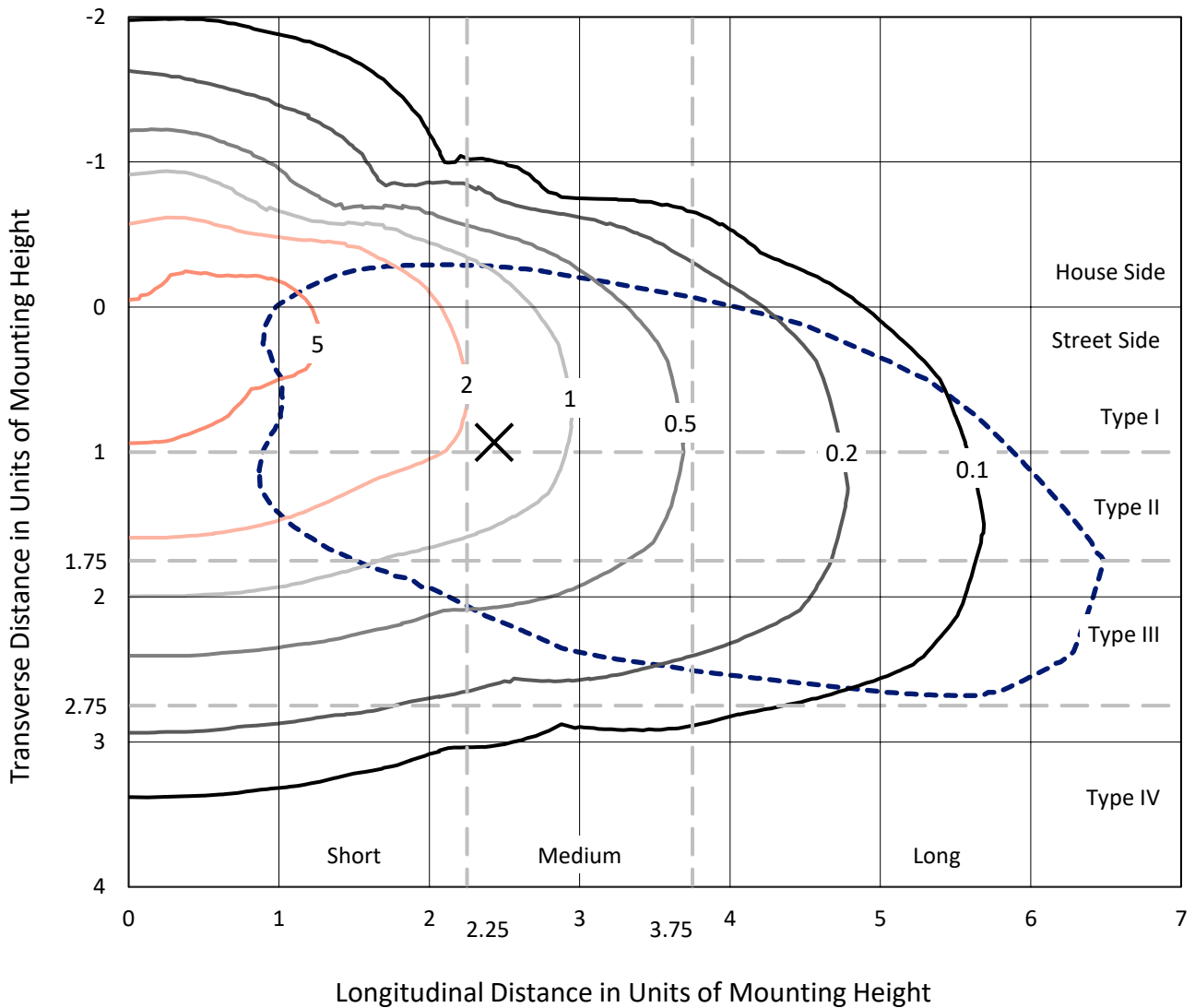
Input Watts (W): 217
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

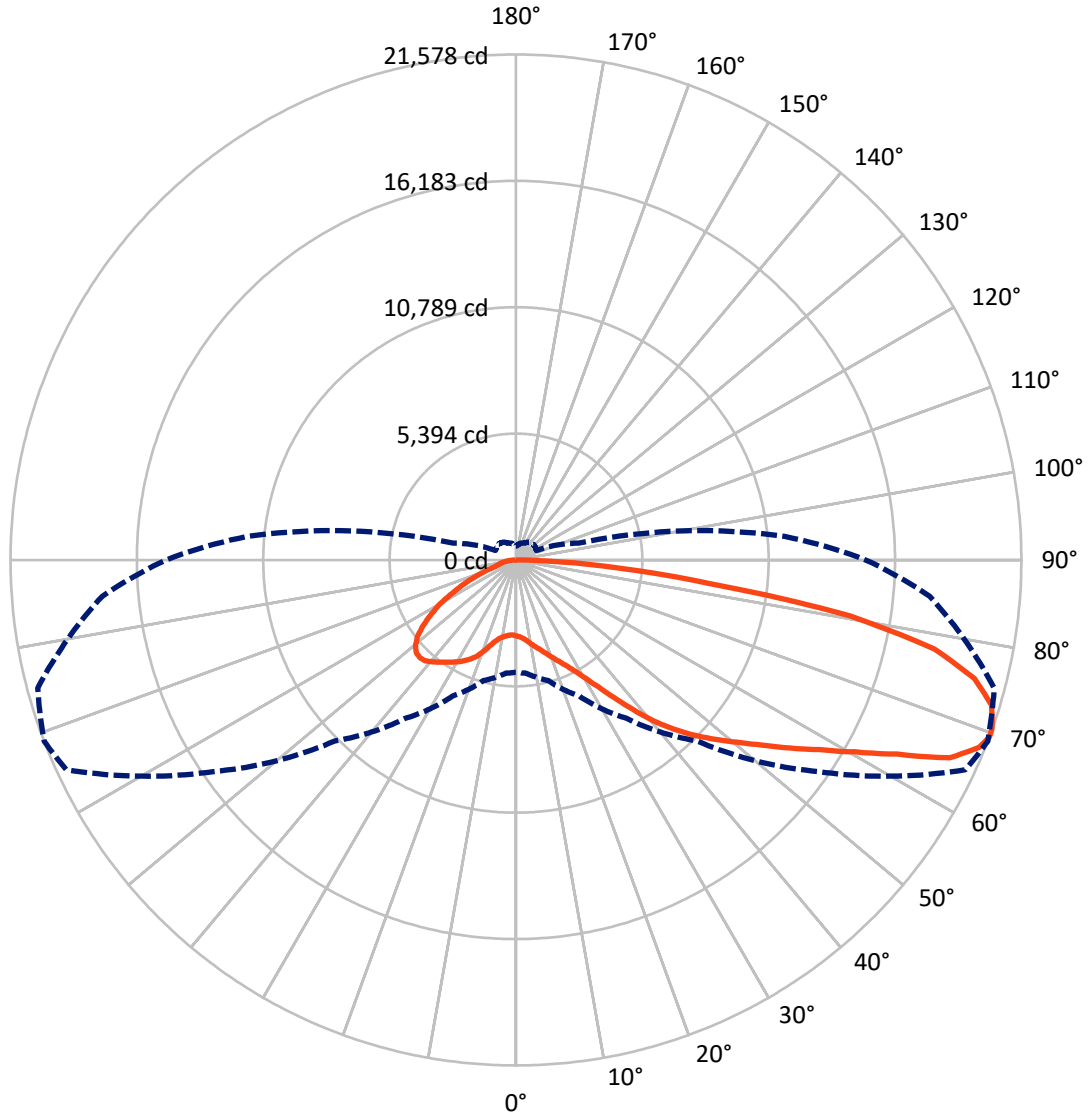
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.2 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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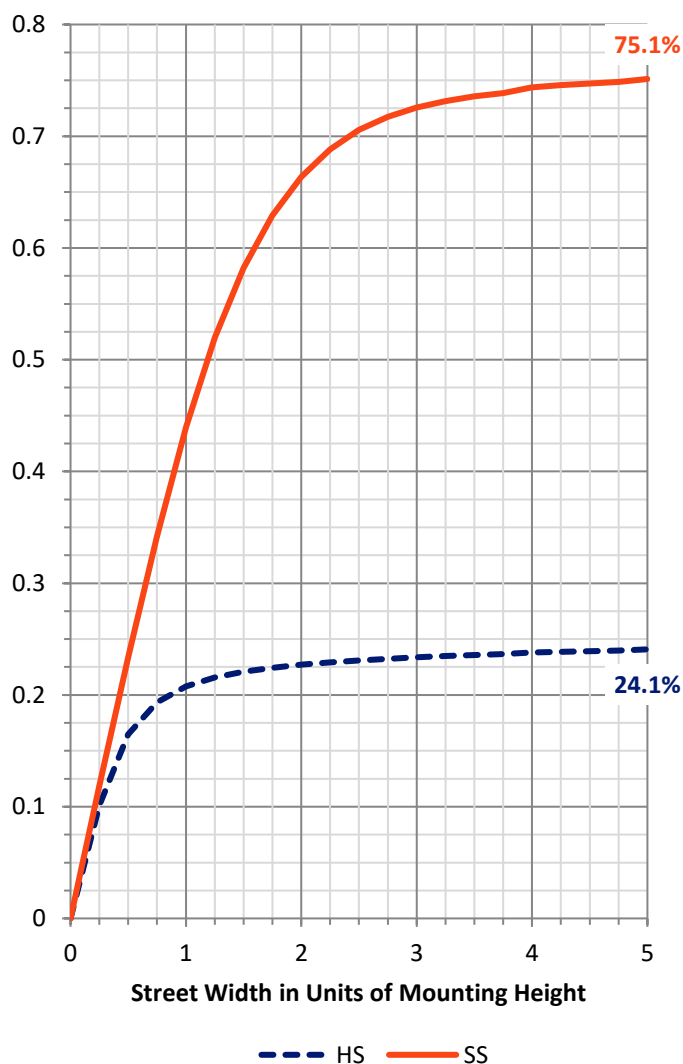
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8093.9	0.0	8093.9
	% Fixture	24.6	0.0	24.6
Street Side	Lumens	24827.7	0.0	24827.7
	% Fixture	75.4	0.0	75.4
Total	Lumens	32921.5	0.0	32921.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	319.9	1.0
10°-20°	1042.7	3.2
20°-30°	1952.9	5.9
30°-40°	3318.2	10.1
40°-50°	5091.9	15.5
50°-60°	6652.8	20.2
60°-70°	7575.5	23.0
70°-80°	5719.4	17.4
80°-90°	1248.2	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°	32921.5	100.0
0°-180°	32921.5	100.0

Coefficient of Utilization



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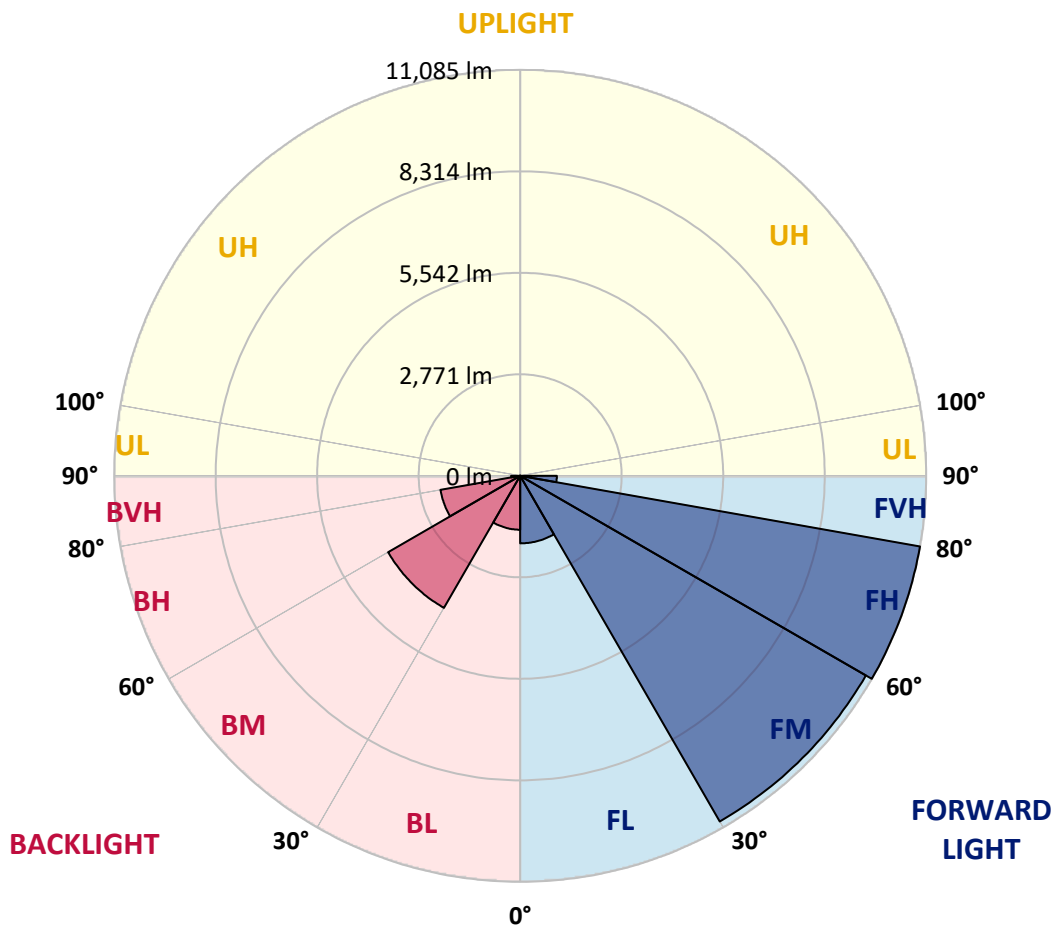
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1843.9	5.6			
FM (30°-60°)	10898.3	33.1			
FH (60°-80°)	11084.8	33.7			G4/12000
FVH (80°-90°)	1000.7	3.0			G5
BL (0°-30°)	1471.7	4.5	B3/2500		
BM (30°-60°)	4164.7	12.7	B3/5000		
BH (60°-80°)	2210.0	6.7	B3/2500		G3/2500
BVH (80°-90°)	247.5	0.8			G3/500
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°	3248.1	3248.1	3248.1	3248.1	3248.1	3248.1	3248.1	3248.1	3248.1	3248.1	3248.1
2.5°	3371.5	3381.6	3380.3	3375.4	3372.8	3358.9	3341.3	3318.5	3280.8	3263.1	3240.4
5°	3515.3	3522.8	3524.1	3515.3	3505.1	3483.7	3447.1	3411.8	3370.3	3345.0	3301.0
7.5°	3637.5	3643.7	3655.2	3647.5	3642.6	3624.9	3589.6	3548.0	3493.7	3458.5	3396.8
10°	3735.8	3740.8	3749.6	3762.2	3786.2	3771.1	3729.5	3700.5	3651.4	3597.1	3520.2
12.5°	3806.3	3802.6	3827.8	3850.5	3899.6	3916.0	3887.1	3865.6	3817.8	3762.2	3671.5
15°	3839.2	3837.9	3882.0	3938.7	4011.8	4038.3	4038.3	4014.4	3987.9	3945.1	3849.2
17.5°	3909.8	3914.7	3943.8	4016.8	4095.0	4156.7	4216.0	4218.5	4198.4	4169.3	4069.8
20°	4018.1	4027.0	4042.0	4100.0	4187.0	4295.4	4406.3	4446.6	4436.5	4425.2	4347.1
22.5°	4154.3	4158.0	4154.3	4204.6	4320.6	4466.8	4626.9	4693.7	4700.0	4701.2	4662.2
25°	4372.3	4355.9	4314.3	4359.7	4494.5	4663.5	4858.8	4969.7	4998.7	5025.2	5118.5
27.5°	4770.6	4732.8	4654.7	4639.5	4716.3	4901.6	5143.6	5328.9	5370.5	5443.6	5691.9
30°	5413.3	5363.0	5289.9	5066.7	5036.5	5195.3	5502.9	5767.6	5850.8	6072.5	6358.7
32.5°	6065.0	6032.2	5950.3	5736.0	5509.1	5568.4	5870.9	6284.3	6463.3	6911.9	7176.6
35°	6624.6	6608.2	6561.5	6456.9	6193.5	6027.1	6290.6	6865.3	7199.4	7900.1	8138.3
37.5°	7164.1	7156.4	7159.0	7016.5	6905.7	6666.1	6772.0	7543.4	8091.7	8934.9	9094.9
40°	7635.4	7639.2	7678.2	7612.7	7593.9	7445.1	7339.3	8266.9	9018.1	9958.3	9996.1
42.5°	8022.4	8026.1	8207.7	8109.3	8226.5	8193.8	8041.2	8942.5	9870.1	10786.4	10781.3
45°	8277.0	8283.2	8462.2	8541.6	8790.0	8898.3	8784.9	9635.7	10665.3	11552.7	11453.2
47.5°	8466.1	8461.0	8563.0	8883.2	9306.7	9521.0	9562.5	10423.4	11436.7	12262.3	12089.6
50°	8568.1	8579.5	8774.8	9202.1	9827.2	10126.0	10354.1	11353.5	12228.3	12946.7	12703.4
52.5°	8632.4	8689.1	8975.2	9483.1	10297.4	10765.0	11051.0	12384.5	13120.6	13657.6	13353.8
55°	8677.7	8781.1	9063.4	9630.6	10589.8	11283.0	11705.2	13448.3	14174.3	14463.0	14067.2
57.5°	8353.8	8453.4	8912.2	9653.3	10820.4	11709.0	12402.2	14571.3	15273.4	15456.1	14773.0
60°	7800.5	7859.8	8450.9	9475.6	10770.0	12095.9	13317.2	15903.6	16638.3	16652.2	15516.6
62.5°	7230.8	7254.8	7852.2	9011.8	10543.1	12223.2	14232.2	17679.4	18256.7	18080.2	16306.9
65°	6474.6	6501.1	7117.4	8249.2	9994.9	12082.0	14980.9	19551.1	20359.0	19887.6	17090.8
67.5°	5486.5	5544.4	6116.7	7165.2	9019.3	11536.3	15517.9	20840.5	21335.8	20930.0	17632.8
69°	4794.5	4848.7	5328.9	6415.4	8259.3	10921.2	15743.4	21180.8	21577.8	21135.4	17723.5
70°	4296.6	4338.3	4788.2	5854.5	7664.5	10395.7	15792.6	21272.8	21565.1	21143.0	17674.4
72.5°	3062.7	3098.0	3342.5	4096.3	5809.1	8708.0	15551.9	21023.2	21237.5	20628.7	17030.4
75°	2264.9	2292.7	2438.8	2706.0	3381.6	6162.0	14052.0	19985.9	20214.1	19504.5	15688.0
77.5°	1643.6	1666.3	1807.3	2068.3	2379.6	2901.4	9741.5	18037.4	18261.8	17692.1	13505.0
80°	1121.7	1145.6	1272.9	1493.5	1739.3	1930.9	4783.1	13201.3	14437.7	14160.5	9624.3
82.5°	210.5	258.4	547.0	775.1	978.1	1046.1	1808.6	7258.5	8434.5	8603.4	5018.8
85°	139.9	151.2	334.0	325.2	318.9	467.6	708.3	3480.0	4402.5	4561.4	2166.6
87.5°	69.3	73.1	99.5	137.4	175.2	210.5	233.2	917.6	1325.9	1421.7	404.6
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°	3248.1	3248.1	3248.1	3248.1	3248.1	3248.1	3248.1	3248.1	3248.1	3248.1	3248.1
2.5°	3231.6	3225.3	3206.4	3198.9	3193.8	3191.3	3161.0	3156.0	3140.9	3130.8	3121.9
5°	3279.5	3269.5	3225.3	3209.0	3183.7	3162.3	3111.9	3090.5	3075.3	3055.2	3046.4
7.5°	3364.0	3346.3	3279.5	3249.2	3205.1	3168.6	3099.3	3066.5	3037.6	3009.8	3004.7
10°	3478.7	3445.9	3353.8	3307.2	3243.0	3200.2	3119.5	3056.4	3013.6	2982.0	2980.9
12.5°	3628.7	3579.5	3468.6	3406.8	3327.5	3261.8	3169.8	3075.3	3004.7	2954.4	2951.8
15°	3807.6	3756.0	3643.7	3564.3	3471.1	3382.9	3235.5	3095.5	2978.3	2897.7	2887.6
17.5°	4027.0	3977.8	3875.7	3811.4	3680.3	3506.4	3297.1	3087.9	2920.3	2809.4	2793.0
20°	4304.3	4318.0	4222.3	4082.4	3864.3	3608.5	3327.5	3048.9	2805.7	2650.6	2627.9
22.5°	4691.1	4737.8	4577.7	4320.6	4004.2	3662.7	3314.8	2945.6	2648.1	2460.2	2441.4
25°	5165.1	5151.2	4862.6	4495.8	4076.1	3661.4	3244.2	2798.0	2447.6	2236.0	2222.1
27.5°	5660.4	5577.2	5131.1	4618.1	4088.7	3592.1	3105.6	2576.2	2217.0	2040.5	1999.0
30°	6291.9	6060.0	5405.8	4721.4	4047.1	3459.7	2854.7	2363.3	2084.7	1893.1	1865.3
32.5°	7021.6	6635.9	5714.6	4752.9	3955.1	3256.9	2582.6	2264.9	1997.7	1779.7	1748.2
35°	7869.9	7373.3	6072.5	4764.3	3779.9	2955.6	2435.0	2208.2	1939.7	1692.7	1651.1
37.5°	8757.2	8154.7	6513.7	4751.6	3575.7	2625.4	2331.7	2126.3	1874.2	1672.5	1648.6
40°	9558.8	8907.2	7011.6	4716.3	3295.9	2411.2	2219.5	2012.9	1817.5	1665.0	1646.0
42.5°	10293.5	9562.5	7488.0	4657.1	2946.7	2258.6	2096.1	1928.4	1745.7	1559.1	1521.3
45°	10930.1	10167.5	7840.8	4515.9	2556.1	2102.3	1947.2	1811.2	1638.5	1453.2	1415.4
47.5°	11475.9	10666.6	8118.1	4273.9	2240.9	1956.2	1778.4	1671.3	1520.0	1343.5	1305.8
50°	12032.9	11072.5	8280.7	3874.5	1977.6	1788.5	1610.7	1508.7	1378.8	1250.3	1227.6
52.5°	12630.3	11731.7	8517.7	3216.5	1734.3	1612.0	1433.1	1322.1	1226.3	1172.1	1150.7
55°	13234.0	12316.5	8604.7	2432.6	1521.3	1473.4	1265.4	1121.7	1053.6	1019.6	1014.6
57.5°	13834.0	12815.6	8307.2	1731.8	1380.1	1313.3	1086.5	950.3	869.6	893.6	930.2
60°	14447.8	13179.9	7547.2	1354.9	1269.2	1121.7	935.3	834.4	799.1	772.7	773.8
62.5°	15015.0	13350.0	6254.0	1150.7	1162.1	1003.3	882.3	784.0	748.7	703.2	689.5
65°	15391.9	13050.0	4881.5	1065.0	1065.0	973.0	879.7	785.2	737.4	657.9	644.1
67.5°	15283.4	12268.6	3612.2	988.1	1003.3	985.6	901.1	782.7	723.5	647.8	642.8
69°	14934.3	11519.9	2774.1	965.5	993.2	996.9	926.4	795.3	738.5	623.9	596.2
70°	14583.9	10942.6	2296.4	946.6	990.7	1004.6	946.6	810.4	727.2	586.1	568.4
72.5°	13392.9	9248.7	1157.0	873.5	986.9	1013.4	990.7	867.1	720.9	564.6	549.6
75°	11774.5	7113.6	742.4	811.7	955.4	1023.4	1026.0	920.1	723.5	552.0	533.1
77.5°	9434.0	4124.0	616.3	742.4	896.1	1003.3	1037.3	960.4	753.7	573.5	552.0
80°	5016.3	1631.0	495.3	633.9	820.5	942.8	1005.7	946.6	746.2	479.0	465.1
82.5°	2220.8	506.6	363.0	497.8	645.3	824.3	854.5	833.1	652.9	289.9	331.4
85°	623.9	209.2	242.0	357.9	446.2	583.6	669.2	671.8	506.6	126.0	29.0
87.5°	64.2	47.9	70.6	137.4	257.1	404.6	489.0	468.9	339.1	107.2	2.5
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)