

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: P285816

Luminaire Tested: **USSL-XL-C049-D-U-T3-AP-7050-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P285816
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1902-125-8)
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-AP-7050-HSS
Description: PREVAIL XL AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 5000K LEDS AND TYPE III OPTICS WITH HOUSE SIDE SHIELD, GRAY
PAINTED FINISH
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30473.2 lumens
Efficiency: N/A
Efficacy: 140.4 lumens/watt
Luminous Opening: Rectangular (W 1.29' x L: 1.79' x H: 0')
IES Classification: Type III - Medium - Non-Cutoff
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

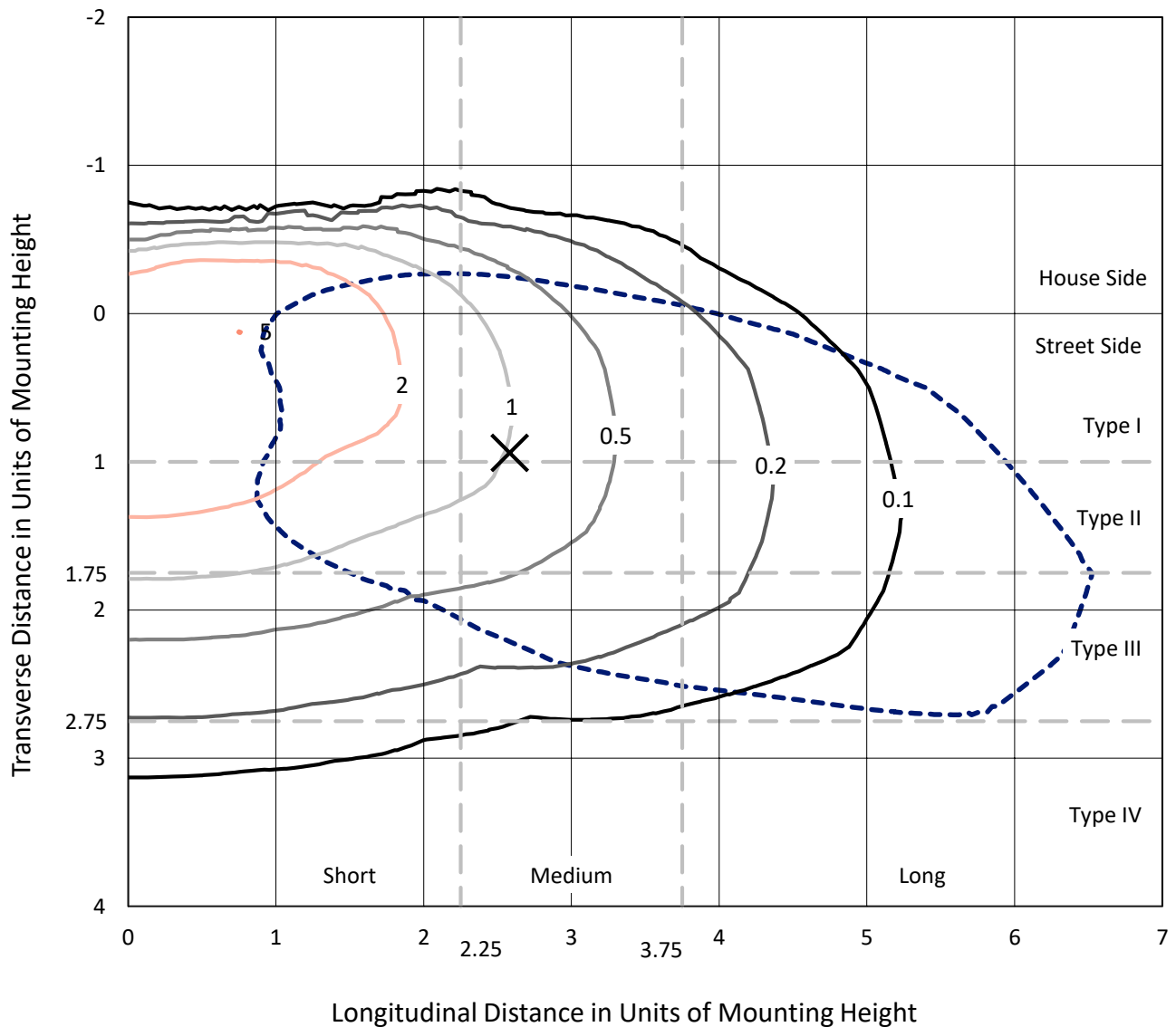


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

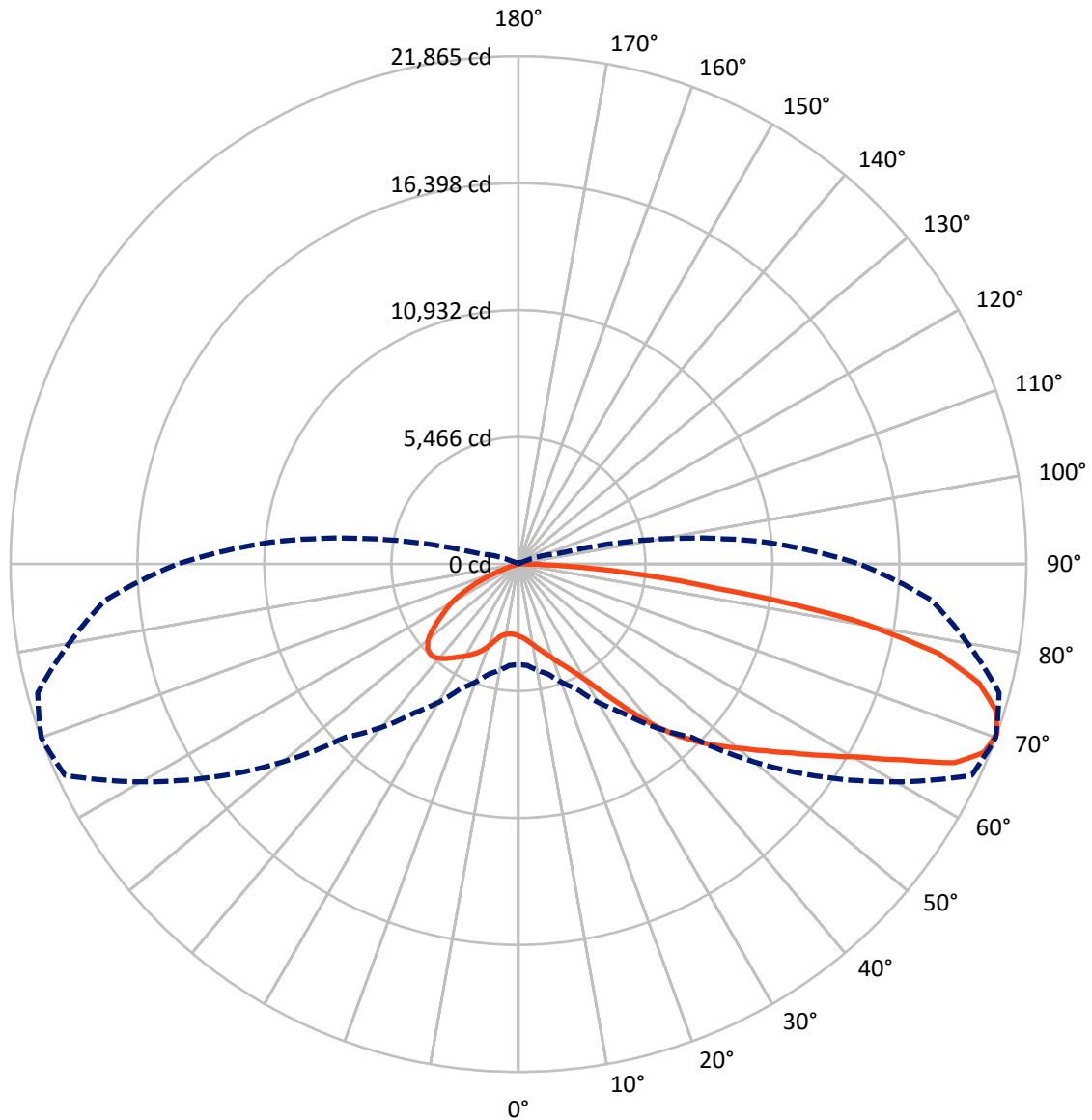


Based on 30 foot mounting height. Maximum calculated value = 5 fc
 Type III - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 70-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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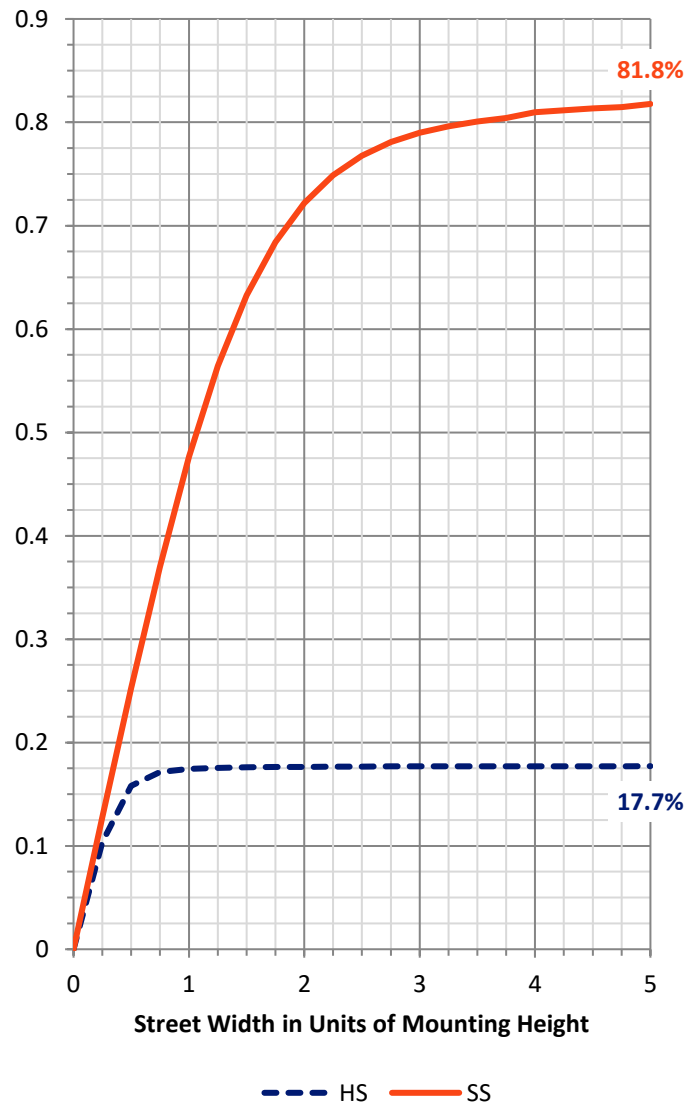
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5460.6	0.0	5460.6
	% Fixture	17.9	0.0	17.9
Street Side	Lumens	25012.6	0.0	25012.6
	% Fixture	82.1	0.0	82.1
Total	Lumens	30473.2	0.0	30473.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	301.1	1.0
10°-20°	946.1	3.1
20°-30°	1722.9	5.7
30°-40°	2929.1	9.6
40°-50°	4607.4	15.1
50°-60°	6219.4	20.4
60°-70°	7276.1	23.9
70°-80°	5414.2	17.8
80°-90°	1056.9	3.5
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°	30473.2	100.0
0°-180°	30473.2	100.0

Coefficient of Utilization



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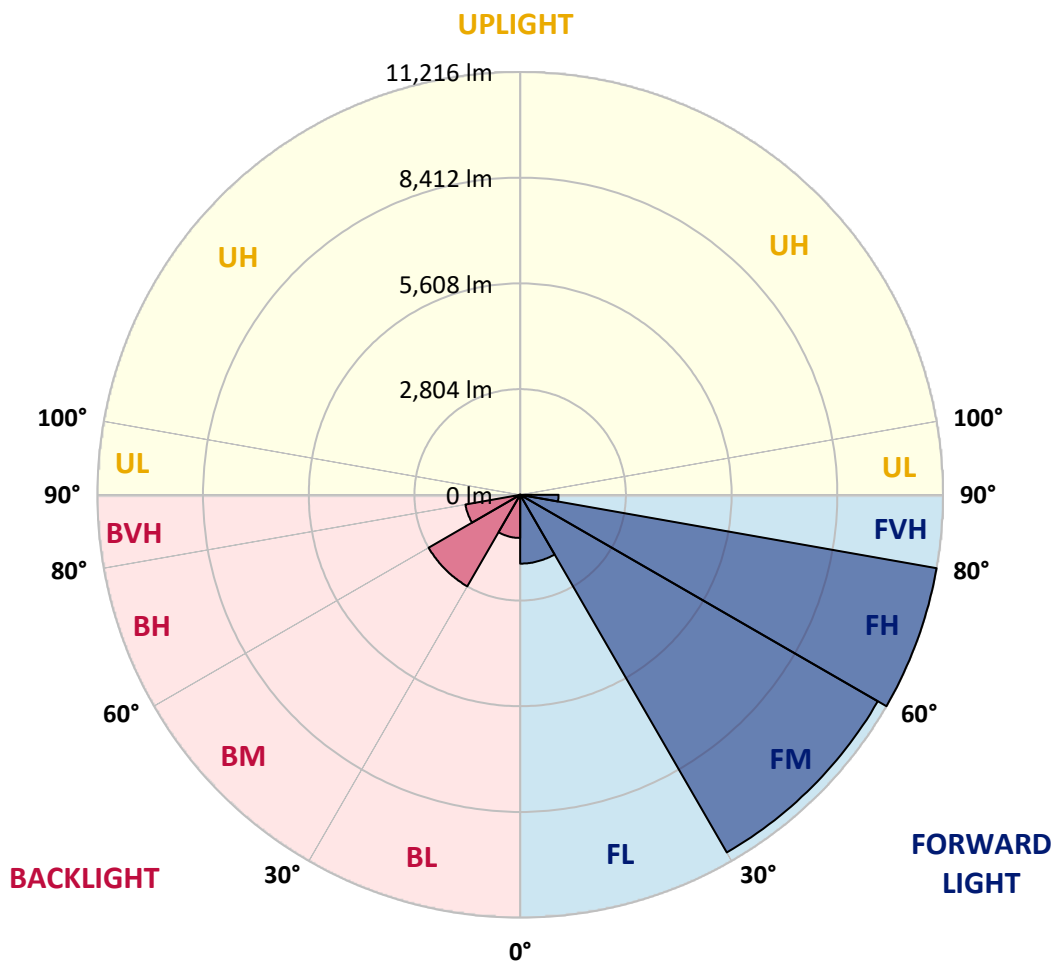
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1825.5	6.0			
FM	(30°-60°)	10953.3	35.9			
FH	(60°-80°)	11215.6	36.8			G4/12000
FVH	(80°-90°)	1018.2	3.3			G5
BL	(0°-30°)	1144.6	3.8	B3/2500		
BM	(30°-60°)	2802.6	9.2	B3/5000		
BH	(60°-80°)	1474.7	4.8	B3/2500		G3/2500
BVH	(80°-90°)	38.7	0.1			G1/100
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°	70°	75°	85°
0°	3114.5	3114.5	3114.5	3114.5	3114.5	3114.5	3114.5	3114.5	3114.5	3114.5	3114.5
2.5°	3289.1	3286.5	3291.6	3278.8	3286.5	3262.2	3240.3	3209.5	3162.0	3145.4	3113.2
5°	3449.4	3452.0	3450.7	3441.8	3430.3	3404.5	3360.9	3318.5	3262.2	3235.1	3172.3
7.5°	3586.8	3588.1	3593.2	3590.6	3584.3	3550.9	3511.0	3457.2	3389.1	3354.5	3268.5
10°	3695.9	3694.6	3702.2	3713.8	3739.5	3713.8	3661.2	3617.5	3544.4	3498.2	3391.7
12.5°	3767.7	3758.7	3780.6	3812.7	3858.9	3862.7	3828.0	3783.1	3719.0	3665.0	3545.7
15°	3801.1	3797.2	3837.0	3903.7	3970.5	3992.3	3987.1	3953.7	3906.4	3852.4	3722.8
17.5°	3879.3	3878.1	3905.0	3983.3	4061.6	4116.8	4173.3	4168.1	4124.5	4086.0	3951.2
20°	4006.4	4009.0	4009.0	4077.0	4163.0	4260.5	4372.2	4406.7	4372.2	4349.1	4219.5
22.5°	4161.7	4150.1	4142.4	4198.9	4304.1	4440.1	4598.1	4662.2	4657.0	4634.0	4555.7
25°	4379.8	4354.2	4299.0	4369.5	4499.2	4658.4	4843.1	4950.9	4959.9	4966.3	5022.8
27.5°	4726.3	4725.0	4631.3	4636.5	4725.0	4909.9	5135.7	5321.8	5347.4	5419.3	5613.1
30°	5424.5	5353.9	5246.1	5074.1	5044.6	5219.2	5488.6	5773.5	5846.6	6066.1	6300.9
32.5°	6077.7	6025.0	5949.3	5750.4	5507.9	5572.0	5878.7	6300.9	6493.4	6931.0	7145.3
35°	6638.5	6611.4	6555.1	6437.0	6217.5	6051.9	6303.5	6887.3	7292.9	7934.5	8121.9
37.5°	7186.4	7165.9	7128.7	7024.7	6887.3	6639.7	6797.6	7579.0	8238.7	8990.7	9086.9
40°	7667.6	7661.2	7693.3	7629.2	7568.9	7414.8	7368.6	8309.3	9226.9	10019.9	9996.8
42.5°	8088.5	8078.2	8234.8	8150.1	8222.0	8162.9	8066.7	8992.0	10122.6	10864.3	10786.0
45°	8369.6	8364.4	8530.0	8614.7	8817.4	8861.1	8803.3	9700.3	10938.7	11638.1	11466.1
47.5°	8583.9	8569.8	8660.9	8986.8	9361.6	9450.1	9561.8	10490.9	11706.1	12322.1	12114.2
50°	8700.6	8705.8	8893.2	9333.4	9887.7	10091.7	10326.6	11430.2	12486.4	13054.9	12711.0
52.5°	8776.4	8831.5	9107.5	9637.5	10394.7	10752.7	11022.1	12445.2	13370.5	13746.6	13379.5
55°	8830.2	8927.9	9203.7	9801.7	10711.6	11304.5	11698.4	13515.5	14376.6	14614.0	14087.9
57.5°	8482.5	8586.5	9051.0	9831.2	10973.4	11770.3	12473.5	14661.5	15553.4	15575.2	14746.2
60°	7914.1	7978.2	8572.4	9650.3	10936.2	12198.9	13424.5	16019.2	16864.9	16853.4	15559.9
62.5°	7326.2	7359.6	7962.8	9172.9	10725.7	12356.7	14330.5	17844.1	18570.4	18227.7	16388.8
65°	6549.9	6587.1	7209.4	8385.0	10140.5	12250.2	15105.5	19757.5	20628.8	20082.1	17190.8
67.5°	5538.6	5609.2	6184.1	7276.2	9188.3	11688.2	15695.8	21068.9	21629.8	21151.0	17752.9
70°	4319.5	4382.4	4895.7	5924.9	7815.2	10542.2	15970.5	21530.9	21864.6	21425.7	17847.9
72.5°	3076.0	3122.3	3349.4	4210.5	5927.5	8809.8	15709.9	21309.0	21482.2	20934.2	17203.7
75°	2342.0	2304.8	2439.6	2765.5	3467.5	6190.6	14125.1	20305.4	20482.5	19878.1	15947.4
77.5°	1695.2	1665.7	1827.4	2080.2	2419.0	2910.5	9928.7	18244.5	18472.9	17978.8	13814.5
80°	997.2	1039.4	1253.8	1493.7	1763.2	1939.1	4681.5	13629.8	14635.8	14434.4	10071.2
82.5°	189.9	205.3	521.0	791.7	971.4	1027.9	1772.3	7497.0	8592.8	8812.3	5320.5
85°	124.4	134.7	311.8	318.3	310.6	397.8	716.1	3612.5	4639.1	4691.6	2336.9
87.5°	57.8	64.1	95.0	137.4	174.6	209.2	236.1	970.1	1433.4	1466.8	462.0
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°	3114.5	3114.5	3114.5	3114.5	3114.5	3114.5	3114.5	3114.5	3114.5	3114.5	3114.5
2.5°	3096.6	3083.8	3056.8	3033.6	3018.3	3009.3	2958.0	2949.0	2929.8	2915.6	2909.2
5°	3142.7	3118.3	3052.9	3008.0	2950.2	2902.7	2816.8	2773.2	2747.5	2720.6	2714.2
7.5°	3221.0	3181.3	3078.6	2997.7	2898.9	2813.0	2692.4	2623.0	2574.3	2535.8	2531.9
10°	3331.4	3268.5	3121.0	3002.9	2860.5	2742.4	2592.2	2480.6	2412.5	2362.5	2360.0
12.5°	3468.7	3382.8	3200.5	3043.9	2860.5	2697.4	2519.1	2370.3	2270.1	2202.2	2194.4
15°	3640.7	3538.1	3332.6	3140.2	2923.3	2715.5	2469.0	2268.8	2122.6	2013.5	2008.3
17.5°	3855.0	3748.4	3548.2	3331.4	3042.7	2743.7	2431.8	2149.5	1937.7	1808.2	1794.0
20°	4125.8	4075.7	3870.4	3553.4	3165.8	2757.8	2348.4	1983.9	1696.5	1529.6	1507.8
22.5°	4513.3	4485.1	4191.2	3743.4	3236.4	2714.2	2211.1	1719.6	1370.6	1190.9	1174.2
25°	4998.4	4900.9	4478.7	3884.5	3249.2	2617.8	1978.8	1382.1	992.0	813.6	807.2
27.5°	5504.0	5327.0	4727.6	3983.3	3212.0	2424.1	1652.9	983.0	618.6	504.3	505.6
30°	6141.8	5805.6	5009.9	4077.0	3126.1	2161.0	1225.6	612.1	388.9	319.6	310.6
32.5°	6877.2	6411.3	5292.3	4114.2	2965.7	1788.9	777.6	376.1	243.8	207.8	204.0
35°	7735.7	7160.7	5655.4	4118.0	2701.3	1329.4	465.8	220.8	165.6	166.8	169.4
37.5°	8631.4	7955.1	6098.1	4071.8	2371.5	831.6	263.1	142.5	142.5	169.4	178.4
40°	9442.4	8714.8	6567.9	3967.9	1907.0	483.8	148.8	123.2	130.9	159.1	166.8
42.5°	10186.7	9371.8	6997.8	3806.2	1361.5	261.8	128.4	111.6	118.1	130.9	134.7
45°	10830.9	9942.9	7307.1	3545.7	826.4	161.7	118.1	101.3	100.1	109.1	111.6
47.5°	11386.6	10453.6	7516.2	3173.6	432.4	154.0	114.3	92.4	86.0	89.9	91.2
50°	11956.3	10832.2	7594.5	2651.2	222.0	145.0	106.5	86.0	79.6	91.2	92.4
52.5°	12532.6	11400.7	7604.8	1921.1	175.8	130.9	97.5	79.6	76.9	101.3	105.2
55°	13093.4	11815.2	7457.1	1112.6	170.6	121.9	88.5	71.9	74.4	76.9	76.9
57.5°	13684.9	12311.8	7146.6	486.4	165.6	111.6	82.1	65.4	55.2	61.6	64.1
60°	14318.9	12740.4	6521.7	281.1	157.8	100.1	70.6	53.9	46.2	46.2	50.0
62.5°	14959.2	13054.9	5498.9	205.3	150.2	93.7	61.6	47.5	38.5	38.5	41.0
65°	15375.0	12845.7	4241.3	182.2	145.0	84.7	53.9	41.0	30.8	29.5	32.1
67.5°	15299.3	12044.9	2987.4	163.0	132.2	76.9	47.5	35.9	26.9	21.8	23.1
70°	14671.8	10735.9	1656.7	152.7	118.1	70.6	42.4	32.1	21.8	14.1	14.1
72.5°	13515.5	9021.4	636.5	137.4	105.2	61.6	38.5	30.8	19.3	7.7	6.5
75°	11789.5	6865.6	229.7	115.5	87.2	56.5	37.2	32.1	18.0	2.5	0.0
77.5°	9243.5	3842.1	136.0	86.0	65.4	48.8	39.7	32.1	10.3	0.0	0.0
80°	4965.0	1387.2	96.2	55.2	43.7	35.9	35.9	25.6	5.1	0.0	0.0
82.5°	2061.0	311.8	61.6	30.8	29.5	23.1	23.1	11.6	1.3	0.0	0.0
85°	583.9	91.2	28.2	16.6	16.6	12.8	6.5	0.0	0.0	0.0	0.0
87.5°	50.0	19.3	7.7	9.0	6.5	2.5	0.0	0.0	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)