

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: P285811

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P285811
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-HSS
Description: PREVAIL XL AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 4000K 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: 29929.5 lumens
Efficiency: N/A
Efficacy: 137.9 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

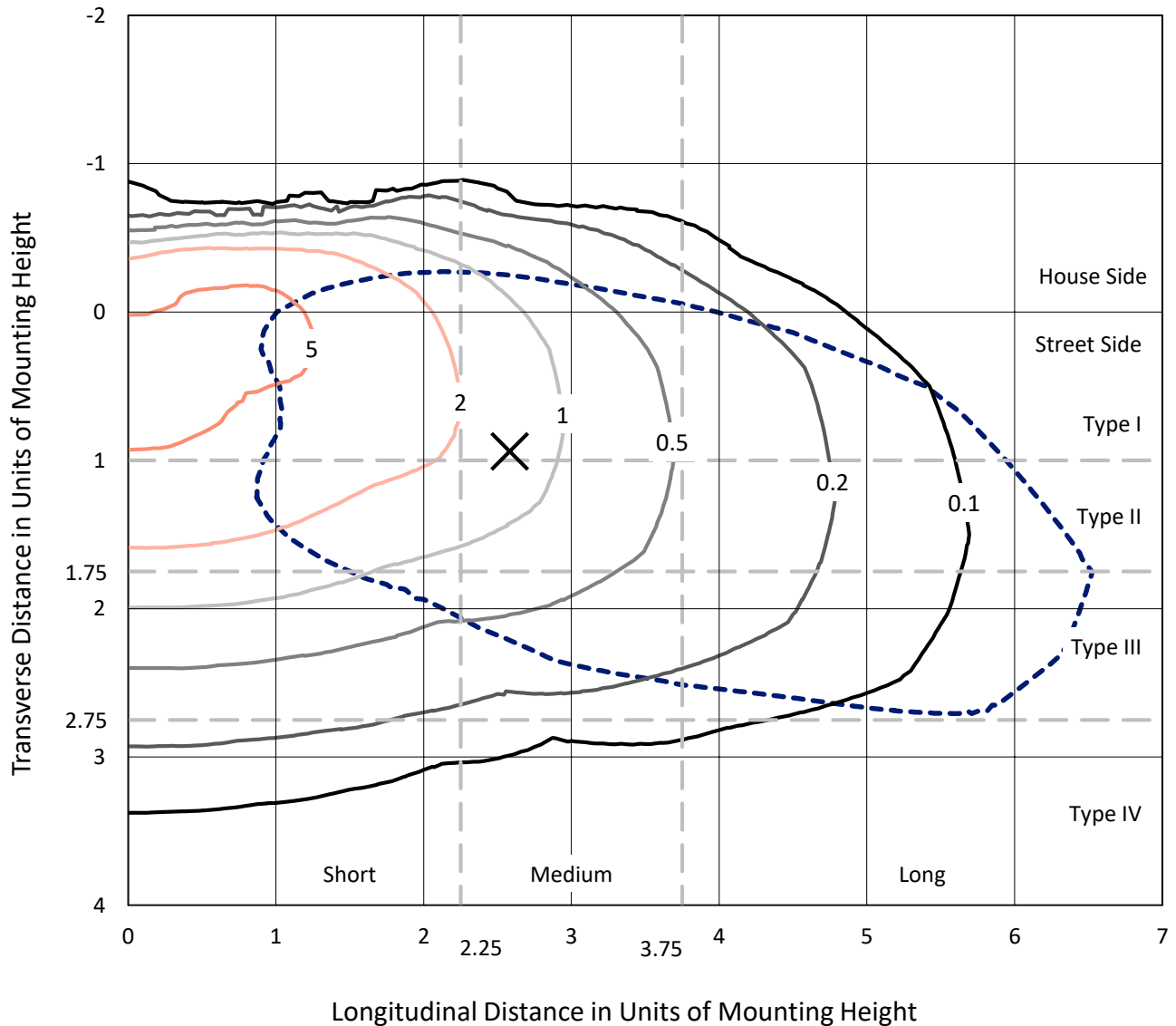
Input Watts (W): 217
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

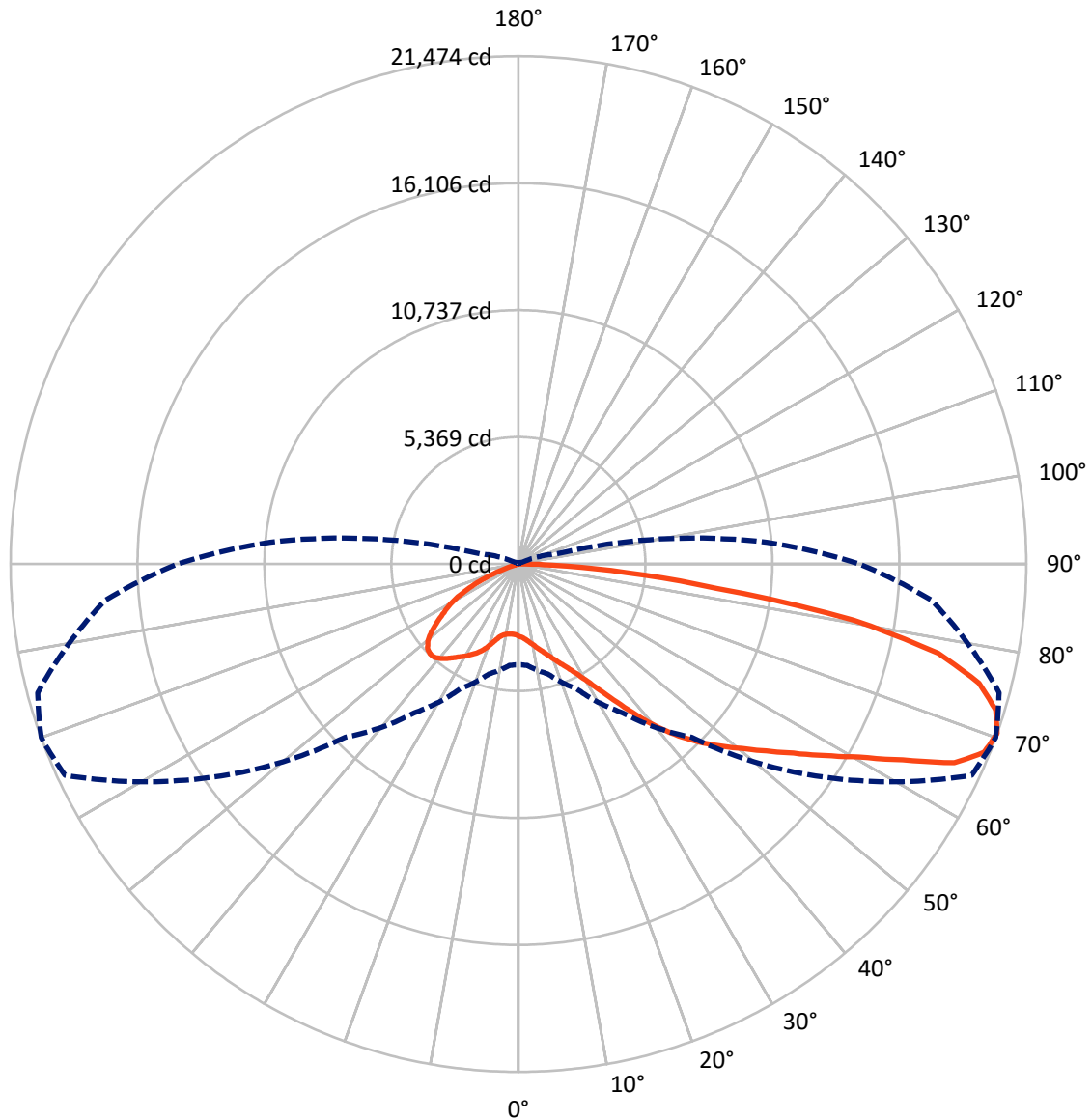
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.1 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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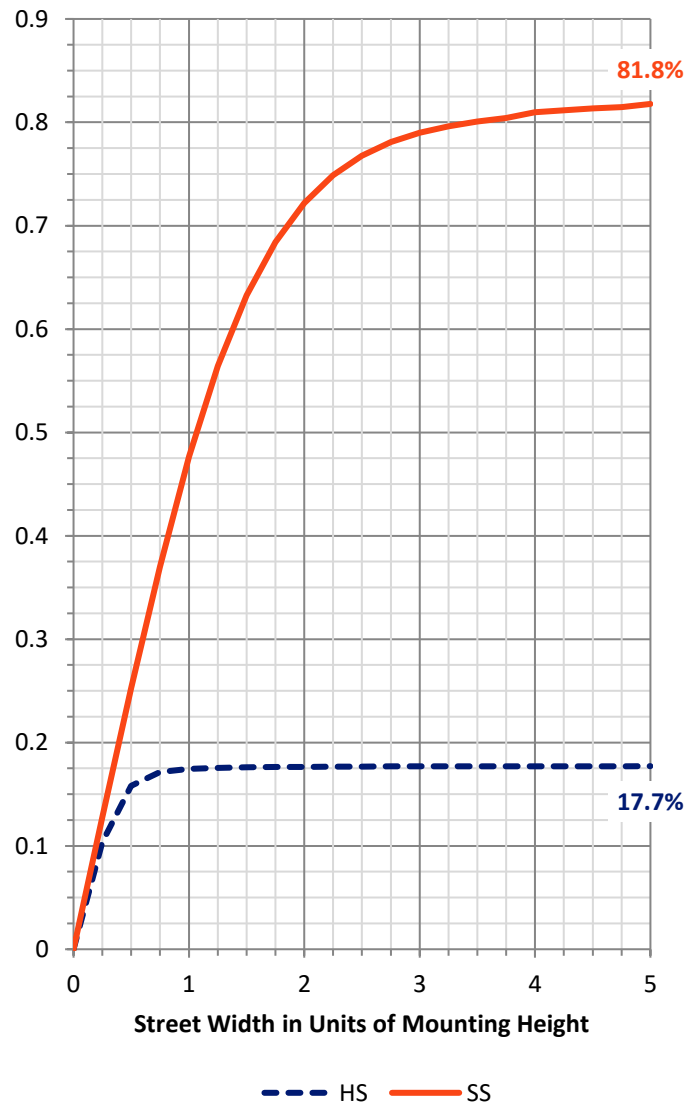
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5363.2	0.0	5363.2
	% Fixture	17.9	0.0	17.9
Street Side	Lumens	24566.3	0.0	24566.3
	% Fixture	82.1	0.0	82.1
Total	Lumens	29929.5	0.0	29929.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	295.7	1.0
10°-20°	929.3	3.1
20°-30°	1692.2	5.7
30°-40°	2876.8	9.6
40°-50°	4525.1	15.1
50°-60°	6108.5	20.4
60°-70°	7146.3	23.9
70°-80°	5317.6	17.8
80°-90°	1038.1	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°	29929.5	100.0
0°-180°	29929.5	100.0

Coefficient of Utilization



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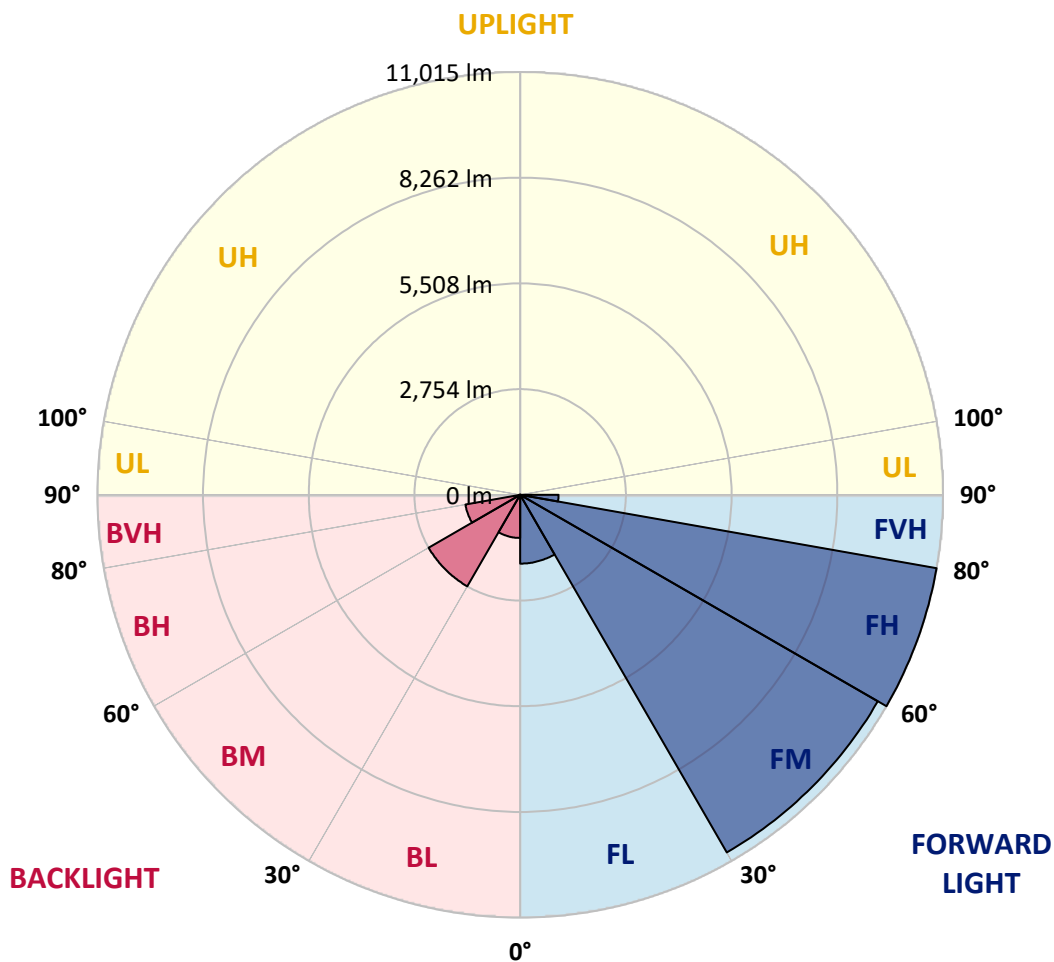
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1792.9	6.0			
FM	(30°-60°)	10757.9	35.9			
FH	(60°-80°)	11015.4	36.8			G4/12000
FVH	(80°-90°)	1000.0	3.3			G5
BL	(0°-30°)	1124.2	3.8	B3/2500		
BM	(30°-60°)	2752.6	9.2	B3/5000		
BH	(60°-80°)	1448.4	4.8	B3/2500		G3/2500
BVH	(80°-90°)	38.0	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°	3059.0	3059.0	3059.0	3059.0	3059.0	3059.0	3059.0	3059.0	3059.0	3059.0	3059.0
2.5°	3230.4	3227.8	3232.9	3220.3	3227.8	3203.9	3182.5	3152.2	3105.6	3089.2	3057.7
5°	3388.0	3390.4	3389.1	3380.3	3369.0	3343.8	3301.0	3259.4	3203.9	3177.5	3115.7
7.5°	3522.8	3524.1	3529.0	3526.6	3520.2	3487.5	3448.4	3395.5	3328.7	3294.7	3210.2
10°	3629.9	3628.7	3636.2	3647.5	3672.8	3647.5	3595.9	3553.0	3481.1	3435.8	3331.2
12.5°	3700.5	3691.6	3713.1	3744.6	3790.0	3793.8	3759.8	3715.6	3652.6	3599.6	3482.4
15°	3733.3	3729.5	3768.6	3834.1	3899.6	3921.1	3916.0	3883.3	3836.6	3783.6	3656.3
17.5°	3810.1	3808.9	3835.4	3912.2	3989.1	4043.3	4098.7	4093.8	4050.8	4013.1	3880.7
20°	3934.9	3937.4	3937.4	4004.2	4088.7	4184.5	4294.2	4328.2	4294.2	4271.4	4144.1
22.5°	4087.4	4076.1	4068.5	4124.0	4227.3	4361.0	4515.9	4579.0	4573.9	4551.2	4474.4
25°	4301.7	4276.5	4222.3	4291.6	4418.9	4575.2	4756.7	4862.6	4871.4	4877.7	4933.2
27.5°	4642.0	4640.8	4548.8	4553.8	4640.8	4822.2	5044.1	5226.8	5252.0	5322.6	5513.0
30°	5327.7	5258.4	5152.5	4983.5	4954.6	5126.0	5390.7	5670.5	5742.3	5957.8	6188.5
32.5°	5969.1	5917.5	5843.1	5647.8	5409.6	5472.6	5773.8	6188.5	6377.5	6807.3	7017.8
35°	6520.0	6493.5	6438.0	6322.1	6106.6	5944.0	6191.0	6764.5	7162.8	7793.0	7977.0
37.5°	7058.2	7037.9	7001.5	6899.3	6764.5	6521.2	6676.3	7443.9	8091.7	8830.2	8924.8
40°	7530.8	7524.5	7556.0	7493.0	7433.7	7282.5	7237.1	8161.0	9062.1	9841.1	9818.4
42.5°	7944.3	7934.1	8087.9	8004.7	8075.3	8017.3	7922.8	8831.5	9942.0	10670.4	10593.6
45°	8220.3	8215.2	8377.8	8461.0	8660.1	8702.9	8646.2	9527.2	10743.6	11430.5	11261.5
47.5°	8430.8	8416.9	8506.3	8826.5	9194.5	9281.4	9391.1	10303.7	11497.3	12102.3	11898.0
50°	8545.4	8550.4	8734.5	9166.8	9711.2	9911.7	10142.3	11226.2	12263.6	12821.9	12484.1
52.5°	8619.7	8674.0	8944.9	9465.5	10209.2	10560.7	10825.5	12223.2	13131.9	13501.2	13140.7
55°	8672.7	8768.6	9039.5	9626.9	10520.5	11102.8	11489.6	13274.4	14120.1	14353.3	13836.6
57.5°	8331.1	8433.2	8889.5	9655.8	10777.6	11560.2	12251.0	14399.9	15275.9	15297.3	14483.1
60°	7772.8	7835.8	8419.4	9478.2	10741.0	11981.2	13184.9	15733.4	16564.0	16552.7	15282.2
62.5°	7195.6	7228.3	7820.7	9009.3	10534.3	12136.3	14074.7	17525.7	18239.1	17902.6	16096.4
65°	6433.1	6469.5	7080.9	8235.3	9959.6	12031.7	14836.1	19404.9	20260.7	19723.8	16884.1
67.5°	5439.8	5509.1	6073.8	7146.4	9024.4	11479.6	15415.8	20693.1	21243.8	20773.7	17436.2
70°	4242.5	4304.3	4808.3	5819.2	7675.8	10354.1	15685.5	21146.8	21474.4	21043.4	17529.5
72.5°	3021.1	3066.5	3289.6	4135.3	5821.7	8652.6	15429.6	20928.7	21098.9	20560.7	16896.7
75°	2300.2	2263.6	2396.0	2716.1	3405.6	6080.1	13873.0	19943.1	20117.0	19523.4	15662.8
77.5°	1665.0	1636.0	1794.8	2043.1	2375.9	2858.6	9751.6	17918.9	18143.3	17658.0	13568.1
80°	979.3	1020.9	1231.4	1467.1	1731.8	1904.4	4597.8	13386.5	14374.7	14176.8	9891.5
82.5°	186.5	201.7	511.7	777.6	954.1	1009.6	1740.6	7363.1	8439.6	8655.0	5225.5
85°	122.2	132.4	306.3	312.6	305.0	390.7	703.2	3548.0	4556.3	4608.0	2295.2
87.5°	56.7	63.1	93.3	134.8	171.4	205.4	231.9	952.9	1407.9	1440.6	453.7
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°	3059.0	3059.0	3059.0	3059.0	3059.0	3059.0	3059.0	3059.0	3059.0	3059.0	3059.0
2.5°	3041.3	3028.7	3002.3	2979.6	2964.4	2955.6	2905.2	2896.4	2877.4	2863.6	2857.3
5°	3086.6	3062.7	2998.5	2954.4	2897.7	2851.0	2766.6	2723.7	2698.5	2672.0	2665.8
7.5°	3163.6	3124.5	3023.7	2944.3	2847.2	2762.7	2644.2	2576.2	2528.3	2490.6	2486.7
10°	3271.9	3210.2	3065.2	2949.3	2809.4	2693.4	2546.0	2436.3	2369.5	2320.3	2317.9
12.5°	3406.8	3322.4	3143.5	2989.7	2809.4	2649.3	2474.1	2328.0	2229.6	2162.8	2155.3
15°	3575.7	3474.9	3273.2	3084.2	2871.2	2667.0	2424.9	2228.3	2084.7	1977.6	1972.5
17.5°	3786.2	3681.6	3485.0	3271.9	2988.4	2694.7	2388.5	2111.1	1903.2	1775.9	1762.0
20°	4052.1	4003.0	3801.3	3490.0	3109.3	2708.6	2306.6	1948.5	1666.3	1502.4	1481.0
22.5°	4432.8	4405.1	4116.4	3676.6	3178.7	2665.8	2171.6	1689.0	1346.1	1169.6	1153.3
25°	4909.2	4813.4	4398.8	3815.2	3191.3	2571.2	1943.5	1357.4	974.3	799.1	792.8
27.5°	5405.8	5231.9	4643.3	3912.2	3154.8	2380.9	1623.3	965.5	607.5	495.3	496.6
30°	6032.2	5701.9	4920.6	4004.2	3070.3	2122.4	1203.6	601.2	381.9	313.8	305.0
32.5°	6754.4	6296.9	5197.9	4040.8	2912.7	1757.0	763.8	369.3	239.4	204.1	200.4
35°	7597.6	7033.0	5554.5	4044.6	2653.1	1305.8	457.6	216.7	162.6	163.9	166.4
37.5°	8477.4	7813.2	5989.4	3999.2	2329.2	816.8	258.4	139.9	139.9	166.4	175.2
40°	9273.9	8559.3	6450.7	3897.1	1872.9	475.2	146.2	121.0	128.6	156.3	163.9
42.5°	10004.9	9204.6	6872.9	3738.3	1337.3	257.1	126.0	109.7	116.0	128.6	132.4
45°	10637.7	9765.5	7176.7	3482.4	811.7	158.8	116.0	99.5	98.4	107.2	109.7
47.5°	11183.4	10267.1	7382.1	3117.0	424.7	151.2	112.1	90.7	84.5	88.2	89.5
50°	11743.1	10639.0	7458.9	2604.0	218.0	142.5	104.6	84.5	78.1	89.5	90.7
52.5°	12308.9	11197.3	7469.0	1886.8	172.7	128.6	95.8	78.1	75.6	99.5	103.3
55°	12859.8	11604.4	7324.1	1092.8	167.7	119.8	87.0	70.6	73.1	75.6	75.6
57.5°	13440.8	12092.2	7019.1	477.7	162.6	109.7	80.7	64.2	54.2	60.5	63.1
60°	14063.4	12513.1	6405.3	276.0	155.1	98.4	69.3	52.9	45.4	45.4	49.2
62.5°	14692.3	12821.9	5400.7	201.7	147.4	92.0	60.5	46.6	37.8	37.8	40.4
65°	15100.7	12616.5	4165.6	179.0	142.5	83.2	52.9	40.4	30.2	29.0	31.5
67.5°	15026.3	11830.0	2934.2	160.0	129.8	75.6	46.6	35.3	26.5	21.4	22.7
70°	14410.0	10544.4	1627.2	150.0	116.0	69.3	41.5	31.5	21.4	13.9	13.9
72.5°	13274.4	8860.6	625.1	134.8	103.3	60.5	37.8	30.2	18.9	7.5	6.3
75°	11579.2	6743.1	225.7	113.4	85.7	55.4	36.6	31.5	17.6	2.5	0.0
77.5°	9078.6	3773.6	133.7	84.5	64.2	47.9	39.1	31.5	10.1	0.0	0.0
80°	4876.4	1362.5	94.5	54.2	42.8	35.3	35.3	25.2	5.1	0.0	0.0
82.5°	2024.2	306.3	60.5	30.2	29.0	22.7	22.7	11.3	1.3	0.0	0.0
85°	573.5	89.5	27.8	16.4	16.4	12.6	6.3	0.0	0.0	0.0	0.0
87.5°	49.2	18.9	7.5	8.8	6.3	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)