

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: P285815

Luminaire Tested: **USSL-XL-C047-D-U-T3-BZ-7050-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P285815
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-C047-D-U-T3-BZ-7050-HSS
Description: PREVAIL XL AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 5000K LEDS AND TYPE III OPTICS WITH HOUSE SIDE SHIELD, BRONZE
PAINTED FINISH
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24177 lumens
Efficiency: N/A
Efficacy: 137.4 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): 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

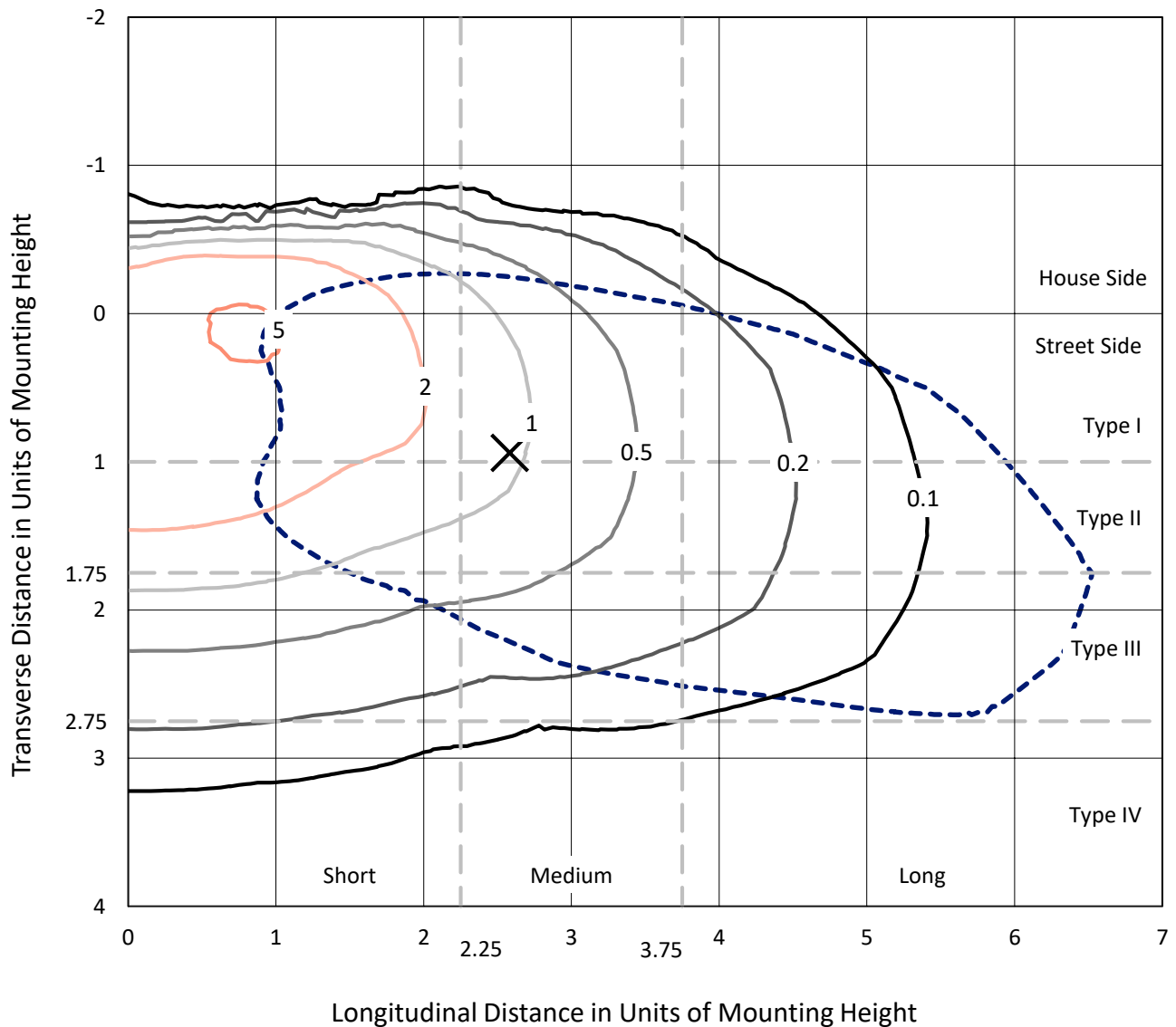


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

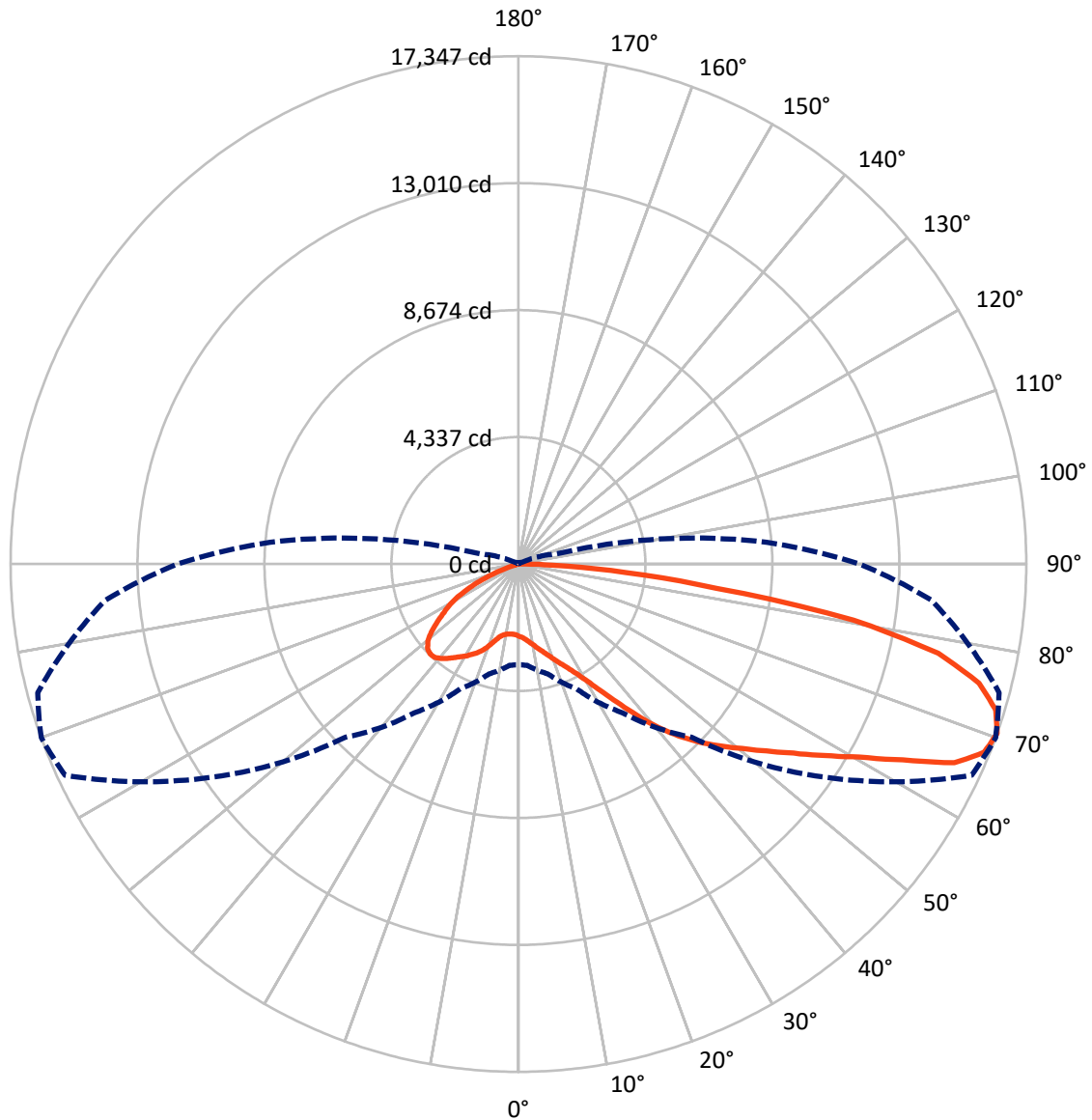


Based on 25 foot mounting height. Maximum calculated value = 5.7 fc
 Type III - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



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

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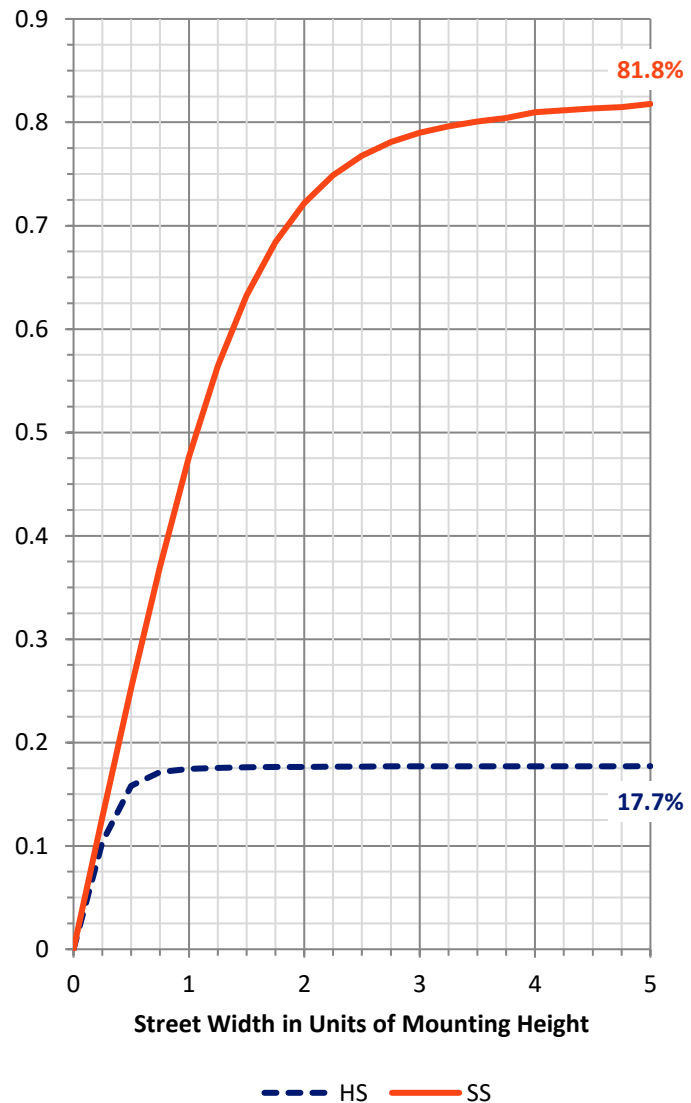
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4332.4	0.0	4332.4
	% Fixture	17.9	0.0	17.9
Street Side	Lumens	19844.6	0.0	19844.6
	% Fixture	82.1	0.0	82.1
Total	Lumens	24177.0	0.0	24177.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	238.8	1.0
10°-20°	750.7	3.1
20°-30°	1366.9	5.7
30°-40°	2323.9	9.6
40°-50°	3655.4	15.1
50°-60°	4934.4	20.4
60°-70°	5772.8	23.9
70°-80°	4295.5	17.8
80°-90°	838.6	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°	24177.0	100.0
0°-180°	24177.0	100.0



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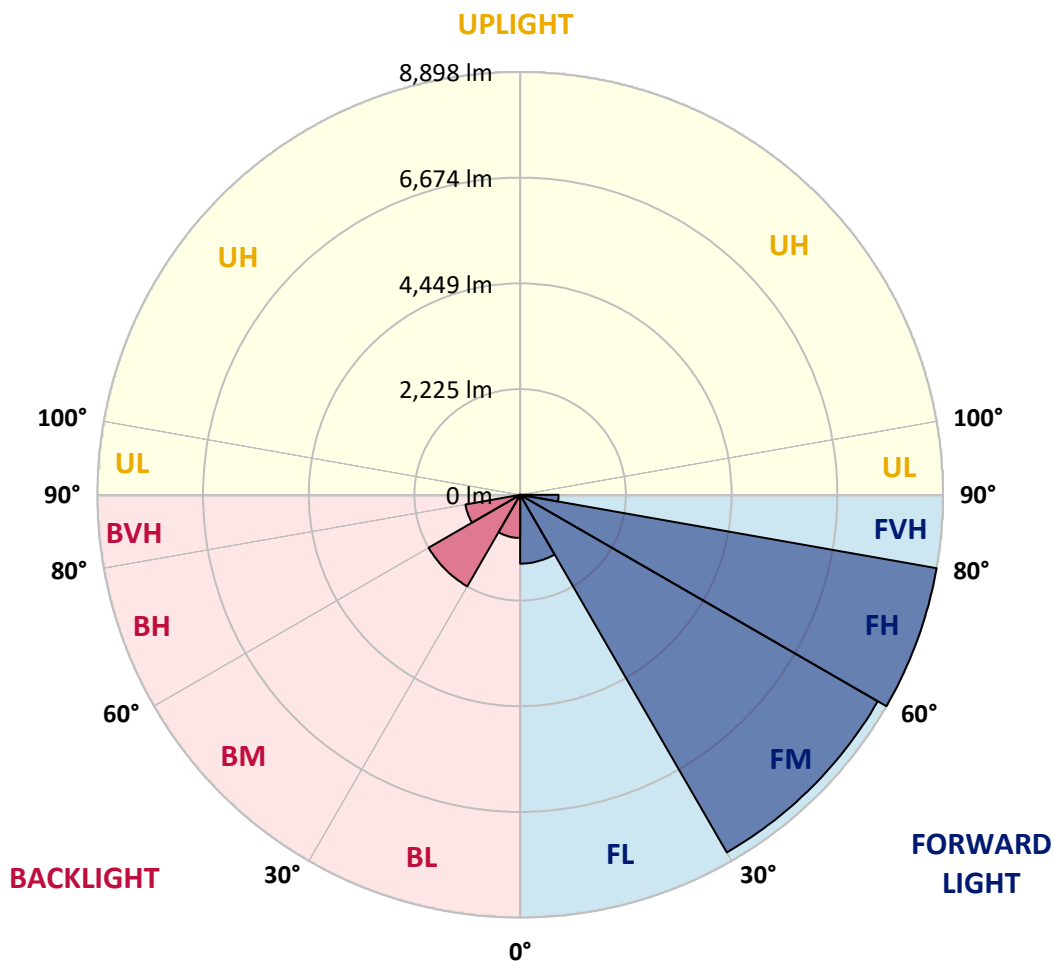
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1448.3	6.0			
FM	(30°-60°)	8690.2	35.9			
FH	(60°-80°)	8898.3	36.8			G4/12000
FVH	(80°-90°)	807.8	3.3			G5
BL	(0°-30°)	908.1	3.8	B2/1000		
BM	(30°-60°)	2223.5	9.2	B2/2500		
BH	(60°-80°)	1170.0	4.8	B3/2500		G3/2500
BVH	(80°-90°)	30.7	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°	2471.0	2471.0	2471.0	2471.0	2471.0	2471.0	2471.0	2471.0	2471.0	2471.0	2471.0
2.5°	2609.5	2607.5	2611.5	2601.3	2607.5	2588.1	2570.8	2546.4	2508.7	2495.5	2470.0
5°	2736.8	2738.8	2737.8	2730.7	2721.5	2701.1	2666.5	2632.9	2588.1	2566.7	2516.8
7.5°	2845.7	2846.7	2850.8	2848.8	2843.7	2817.2	2785.6	2742.9	2688.9	2661.4	2593.2
10°	2932.2	2931.2	2937.3	2946.5	2966.9	2946.5	2904.8	2870.1	2812.1	2775.4	2690.9
12.5°	2989.3	2982.1	2999.4	3024.9	3061.5	3064.6	3037.1	3001.5	2950.6	2907.8	2813.1
15°	3015.7	3012.7	3044.2	3097.2	3150.1	3167.4	3163.4	3136.9	3099.2	3056.5	2953.6
17.5°	3077.8	3076.8	3098.2	3160.3	3222.4	3266.2	3311.0	3306.9	3272.3	3241.8	3134.9
20°	3178.6	3180.7	3180.7	3234.6	3302.8	3380.2	3468.8	3496.3	3468.8	3450.5	3347.6
22.5°	3301.8	3292.7	3286.6	3331.4	3414.8	3522.8	3648.0	3698.9	3694.8	3676.5	3614.4
25°	3474.9	3454.5	3410.8	3466.8	3569.6	3695.8	3842.5	3928.0	3935.1	3940.2	3985.0
27.5°	3749.8	3748.8	3674.5	3678.5	3748.8	3895.4	4074.6	4222.2	4242.6	4299.6	4453.3
30°	4303.7	4247.7	4162.2	4025.7	4002.3	4140.8	4354.6	4580.6	4638.6	4812.7	4999.1
32.5°	4821.9	4780.2	4720.1	4562.3	4369.9	4420.8	4664.1	4999.1	5151.8	5499.0	5669.0
35°	5266.8	5245.5	5200.7	5107.0	4932.9	4801.5	5001.1	5464.4	5786.1	6295.2	6443.8
37.5°	5701.6	5685.3	5655.8	5573.3	5464.4	5267.9	5393.1	6013.1	6536.5	7133.1	7209.4
40°	6083.4	6078.3	6103.7	6052.8	6005.0	5882.8	5846.2	6592.5	7320.4	7949.6	7931.3
42.5°	6417.3	6409.2	6533.4	6466.2	6523.2	6476.4	6400.0	7134.1	8031.1	8619.6	8557.5
45°	6640.3	6636.2	6767.6	6834.8	6995.6	7030.3	6984.4	7696.1	8678.6	9233.5	9097.1
47.5°	6810.3	6799.1	6871.4	7130.0	7427.3	7497.6	7586.2	8323.3	9287.5	9776.2	9611.2
50°	6903.0	6907.1	7055.7	7404.9	7844.8	8006.6	8193.0	9068.6	9906.5	10357.5	10084.7
52.5°	6963.1	7006.8	7225.7	7646.2	8246.9	8531.0	8744.8	9873.9	10608.0	10906.3	10615.1
55°	7005.8	7083.2	7302.1	7776.6	8498.4	8968.8	9281.4	10723.0	11406.2	11594.6	11177.1
57.5°	6729.9	6812.4	7180.9	7800.0	8706.1	9338.4	9896.3	11632.2	12339.9	12357.2	11699.4
60°	6278.9	6329.8	6801.2	7656.4	8676.6	9678.4	10650.8	12709.4	13380.4	13371.2	12344.9
62.5°	5812.6	5839.0	6317.6	7277.7	8509.6	9803.7	11369.6	14157.2	14733.5	14461.7	13002.7
65°	5196.6	5226.1	5719.9	6652.5	8045.3	9719.2	11984.5	15675.3	16366.6	15932.9	13639.0
67.5°	4394.3	4450.3	4906.4	5772.9	7289.9	9273.2	12452.9	16715.8	17160.7	16781.0	14084.9
70°	3427.1	3476.9	3884.2	4700.8	6200.5	8364.0	12670.7	17082.3	17347.1	16998.9	14160.3
72.5°	2440.5	2477.1	2657.3	3340.5	4702.8	6989.5	12464.1	16906.2	17043.7	16608.9	13649.2
75°	1858.1	1828.6	1935.5	2194.1	2751.0	4911.5	11206.7	16110.0	16250.5	15771.0	12652.4
77.5°	1345.0	1321.5	1449.8	1650.4	1919.2	2309.1	7877.3	14474.9	14656.1	14264.1	10960.3
80°	791.1	824.7	994.7	1185.1	1398.9	1538.4	3714.2	10813.7	11611.9	11452.0	7990.4
82.5°	150.7	162.9	413.4	628.2	770.7	815.5	1406.1	5948.0	6817.5	6991.6	4221.2
85°	98.8	106.9	247.4	252.5	246.4	315.6	568.1	2866.1	3680.6	3722.3	1854.0
87.5°	45.8	50.9	75.3	108.9	138.5	166.0	187.3	769.7	1137.3	1163.7	366.5
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°	2471.0	2471.0	2471.0	2471.0	2471.0	2471.0	2471.0	2471.0	2471.0	2471.0	2471.0
2.5°	2456.8	2446.6	2425.2	2406.9	2394.7	2387.5	2346.8	2339.7	2324.4	2313.2	2308.1
5°	2493.4	2474.1	2422.2	2386.5	2340.7	2303.0	2234.8	2200.2	2179.8	2158.5	2153.4
7.5°	2555.5	2524.0	2442.5	2378.4	2300.0	2231.8	2136.1	2081.1	2042.4	2011.8	2008.8
10°	2643.1	2593.2	2476.1	2382.4	2269.4	2175.8	2056.6	1968.1	1914.1	1874.4	1872.4
12.5°	2752.0	2683.8	2539.2	2415.0	2269.4	2140.1	1998.6	1880.5	1801.1	1747.1	1741.0
15°	2888.5	2807.0	2644.1	2491.4	2319.3	2154.4	1958.9	1800.1	1684.0	1597.5	1593.4
17.5°	3058.5	2974.0	2815.2	2643.1	2414.0	2176.8	1929.4	1705.4	1537.4	1434.6	1423.4
20°	3273.3	3233.6	3070.7	2819.2	2511.8	2188.0	1863.2	1574.0	1346.0	1213.6	1196.3
22.5°	3580.8	3558.4	3325.2	2969.9	2567.7	2153.4	1754.3	1364.3	1087.4	944.8	931.6
25°	3965.7	3888.3	3553.3	3081.9	2577.9	2077.0	1570.0	1096.5	787.0	645.5	640.4
27.5°	4366.8	4226.3	3750.8	3160.3	2548.4	1923.3	1311.4	779.9	490.7	400.1	401.1
30°	4872.8	4606.1	3974.8	3234.6	2480.2	1714.5	972.3	485.7	308.5	253.5	246.4
32.5°	5456.2	5086.6	4198.8	3264.2	2352.9	1419.3	617.0	298.3	193.4	164.9	161.9
35°	6137.3	5681.2	4486.9	3267.2	2143.2	1054.8	369.6	175.1	131.3	132.4	134.4
37.5°	6848.0	6311.4	4838.2	3230.6	1881.5	659.8	208.7	113.0	113.0	134.4	141.5
40°	7491.5	6914.2	5210.8	3148.1	1513.0	383.8	118.1	97.7	103.9	126.2	132.4
42.5°	8082.0	7435.5	5551.9	3019.8	1080.2	207.7	101.8	88.6	93.7	103.9	106.9
45°	8593.1	7888.5	5797.3	2813.1	655.7	128.3	93.7	80.4	79.4	86.5	88.6
47.5°	9034.0	8293.8	5963.2	2517.9	343.1	122.2	90.6	73.3	68.2	71.3	72.3
50°	9486.0	8594.1	6025.4	2103.5	176.1	115.0	84.5	68.2	63.1	72.3	73.3
52.5°	9943.2	9045.2	6033.5	1524.2	139.5	103.9	77.4	63.1	61.1	80.4	83.5
55°	10388.1	9374.0	5916.4	882.7	135.4	96.7	70.3	57.0	59.1	61.1	61.1
57.5°	10857.4	9768.0	5670.0	385.9	131.3	88.6	65.2	51.9	43.8	48.9	50.9
60°	11360.4	10108.1	5174.2	223.0	125.2	79.4	56.0	42.8	36.7	36.7	39.7
62.5°	11868.5	10357.5	4362.7	162.9	119.1	74.3	48.9	37.7	30.5	30.5	32.6
65°	12198.3	10191.6	3365.0	144.6	115.0	67.2	42.8	32.6	24.4	23.4	25.5
67.5°	12138.3	9556.3	2370.2	129.3	104.9	61.1	37.7	28.5	21.4	17.3	18.3
70°	11640.4	8517.8	1314.4	121.2	93.7	56.0	33.6	25.5	17.3	11.2	11.2
72.5°	10723.0	7157.5	505.0	108.9	83.5	48.9	30.5	24.4	15.3	6.1	5.1
75°	9353.6	5447.0	182.2	91.6	69.2	44.8	29.5	25.5	14.3	2.0	0.0
77.5°	7333.7	3048.3	107.9	68.2	51.9	38.7	31.6	25.5	8.1	0.0	0.0
80°	3939.2	1100.6	76.4	43.8	34.6	28.5	28.5	20.4	4.1	0.0	0.0
82.5°	1635.1	247.4	48.9	24.4	23.4	18.3	18.3	9.2	1.0	0.0	0.0
85°	463.3	72.3	22.4	13.2	13.2	10.2	5.1	0.0	0.0	0.0	0.0
87.5°	39.7	15.3	6.1	7.1	5.1	2.0	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)