

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-AP-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-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: 25625.2 lumens
Efficiency: N/A
Efficacy: 145.6 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

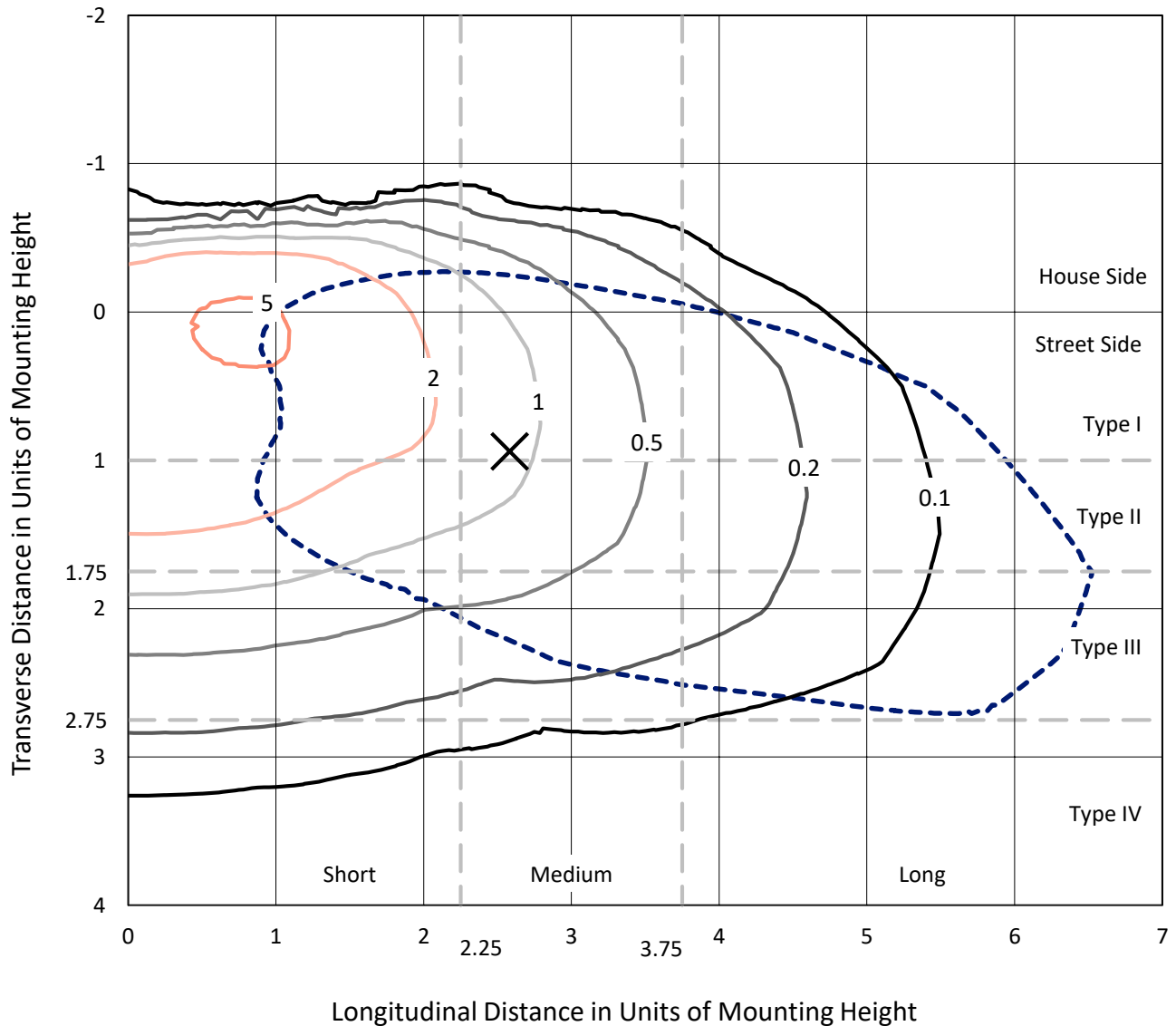


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

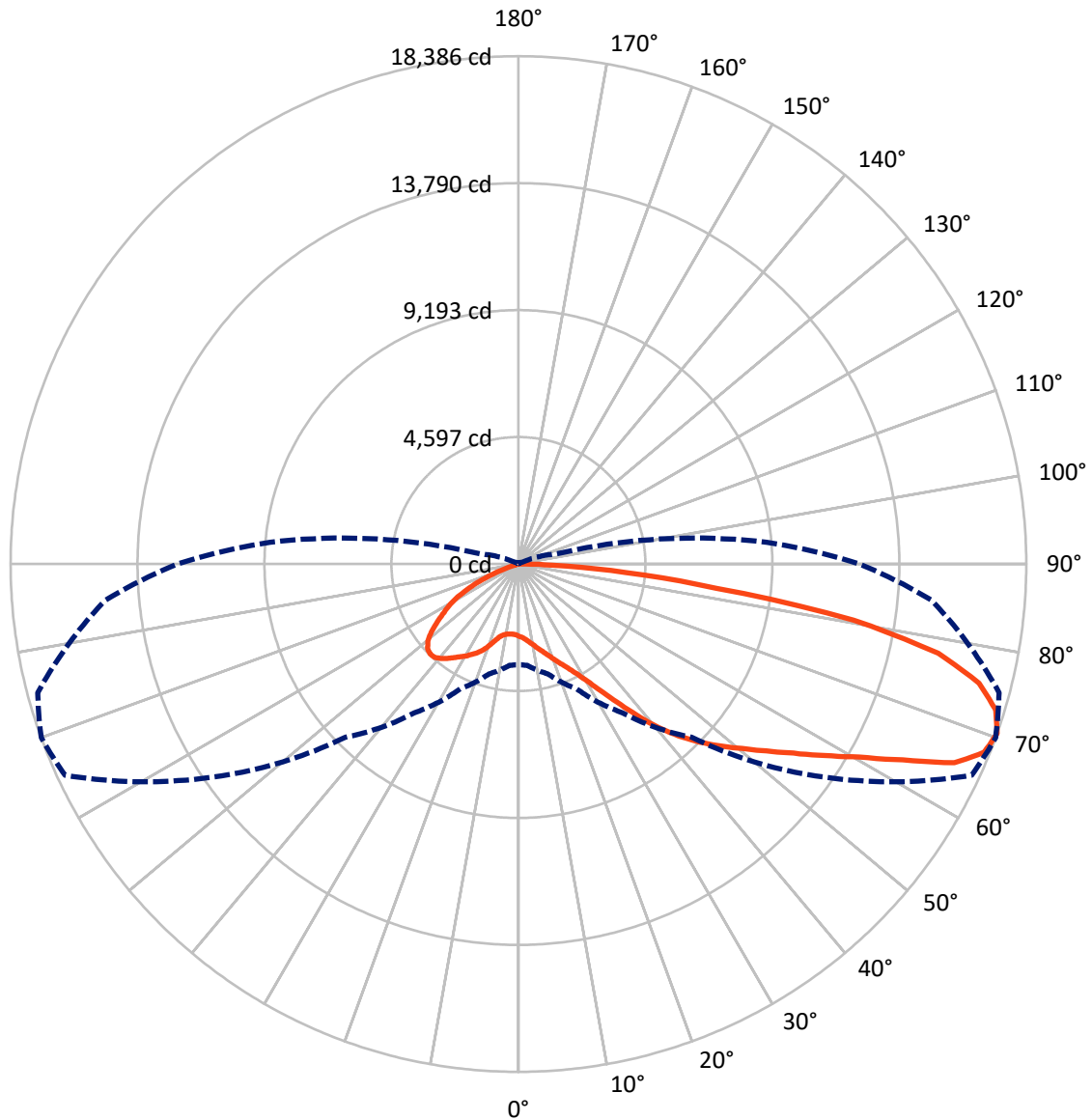


Based on 25 foot mounting height. Maximum calculated value = 6.1 fc
 Type III - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



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

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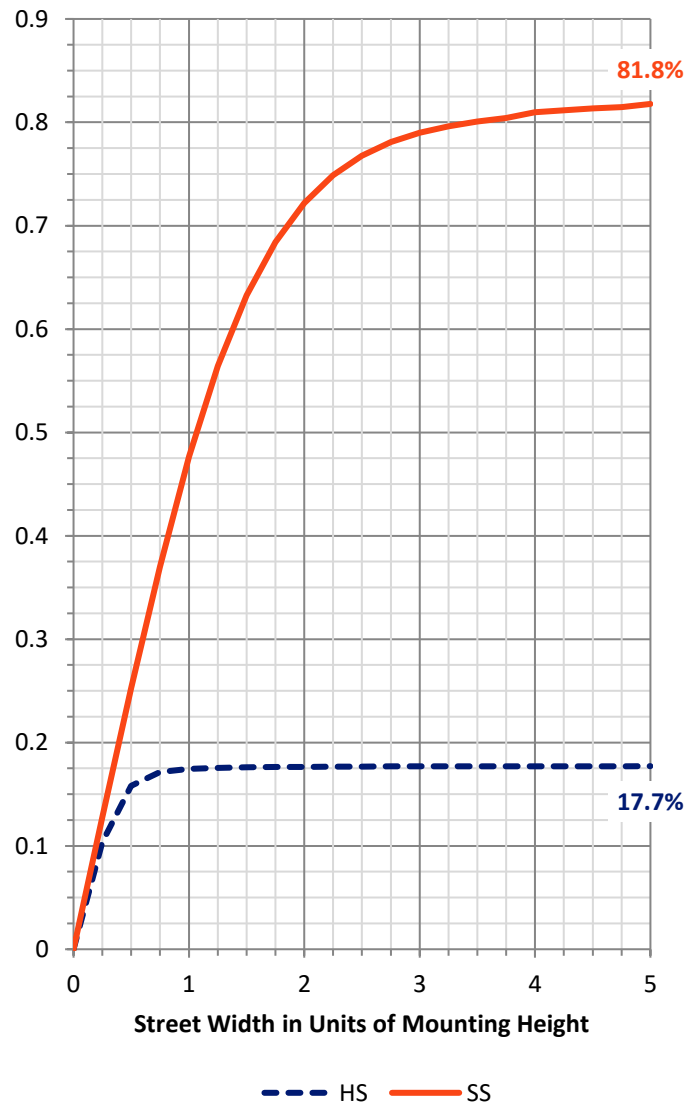
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4591.9	0.0	4591.9
	% Fixture	17.9	0.0	17.9
Street Side	Lumens	21033.3	0.0	21033.3
	% Fixture	82.1	0.0	82.1
Total	Lumens	25625.2	0.0	25625.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	253.2	1.0
10°-20°	795.6	3.1
20°-30°	1448.8	5.7
30°-40°	2463.1	9.6
40°-50°	3874.4	15.1
50°-60°	5230.0	20.4
60°-70°	6118.6	23.9
70°-80°	4552.8	17.8
80°-90°	888.8	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°	25625.2	100.0
0°-180°	25625.2	100.0

Coefficient of Utilization



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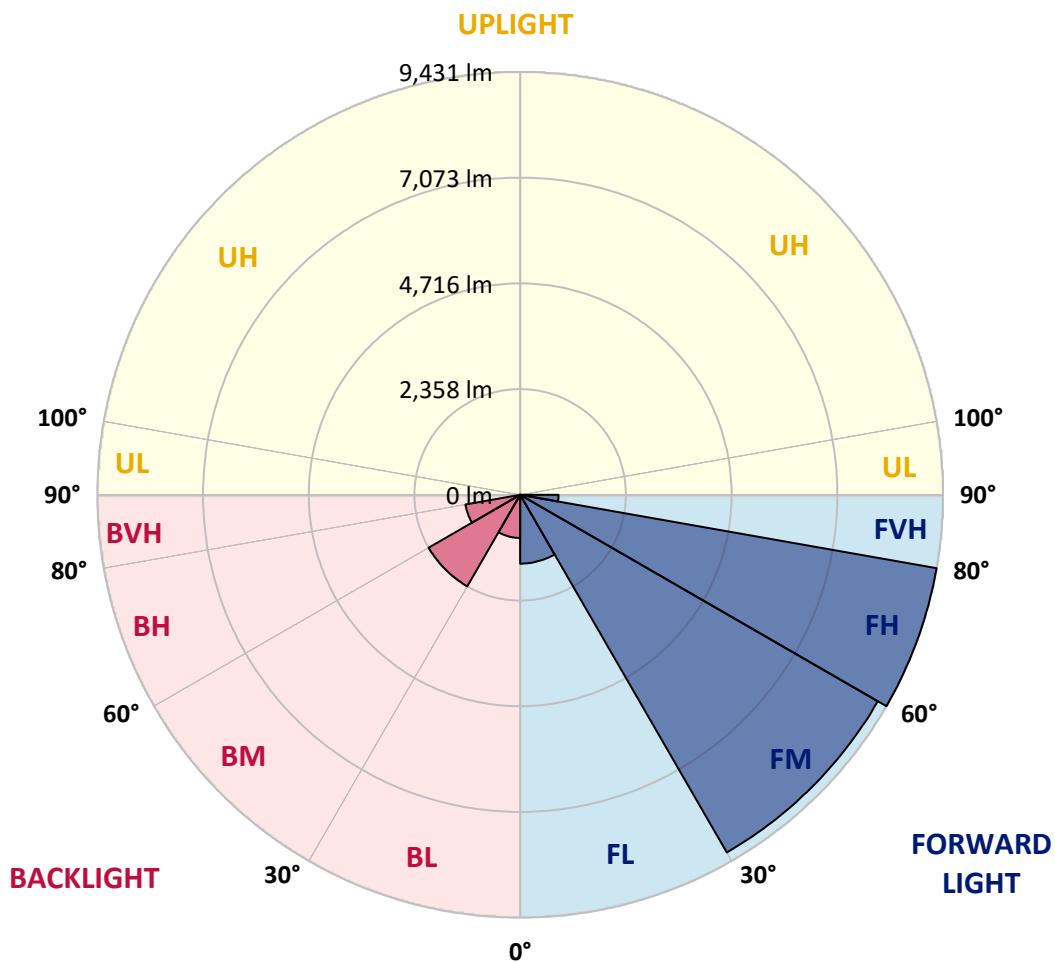
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1535.1	6.0			
FM	(30°-60°)	9210.8	35.9			
FH	(60°-80°)	9431.3	36.8			G4/12000
FVH	(80°-90°)	856.2	3.3			G5
BL	(0°-30°)	962.5	3.8	B2/1000		
BM	(30°-60°)	2356.7	9.2	B2/2500		
BH	(60°-80°)	1240.1	4.8	B3/2500		G3/2500
BVH	(80°-90°)	32.6	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°	2619.0	2619.0	2619.0	2619.0	2619.0	2619.0	2619.0	2619.0	2619.0	2619.0	2619.0
2.5°	2765.8	2763.7	2767.9	2757.1	2763.7	2743.1	2724.8	2698.9	2659.0	2645.0	2618.0
5°	2900.7	2902.9	2901.8	2894.3	2884.5	2862.9	2826.2	2790.6	2743.1	2720.4	2667.6
7.5°	3016.2	3017.2	3021.6	3019.4	3014.0	2986.0	2952.5	2907.2	2850.0	2820.8	2748.5
10°	3107.8	3106.8	3113.2	3123.0	3144.6	3123.0	3078.8	3042.0	2980.5	2941.6	2852.1
12.5°	3168.4	3160.7	3179.1	3206.1	3244.9	3248.2	3219.0	3181.3	3127.3	3082.0	2981.6
15°	3196.3	3193.2	3226.5	3282.7	3338.8	3357.1	3352.9	3324.8	3284.8	3239.6	3130.5
17.5°	3262.2	3261.1	3283.8	3349.6	3415.4	3461.8	3509.3	3505.0	3468.3	3436.0	3322.7
20°	3369.0	3371.2	3371.2	3428.4	3500.6	3582.7	3676.6	3705.7	3676.6	3657.2	3548.1
22.5°	3499.6	3489.9	3483.5	3531.0	3619.3	3733.8	3866.5	3920.5	3916.1	3896.7	3830.9
25°	3683.0	3661.4	3615.1	3674.5	3783.4	3917.2	4072.7	4163.3	4170.8	4176.2	4223.7
27.5°	3974.4	3973.4	3894.6	3898.8	3973.4	4128.7	4318.7	4475.1	4496.7	4557.1	4720.1
30°	4561.5	4502.1	4411.5	4266.8	4242.0	4388.8	4615.4	4855.0	4916.5	5101.0	5298.5
32.5°	5110.7	5066.5	5002.8	4835.6	4631.7	4685.6	4943.5	5298.5	5460.4	5828.4	6008.6
35°	5582.3	5559.7	5512.2	5412.9	5228.4	5089.1	5300.7	5791.7	6132.7	6672.3	6829.8
37.5°	6043.1	6025.8	5994.6	5907.1	5791.7	5583.4	5716.1	6373.3	6928.0	7560.4	7641.2
40°	6447.8	6442.4	6469.3	6415.4	6364.7	6235.2	6196.4	6987.4	7758.9	8425.8	8406.4
42.5°	6801.7	6793.1	6924.8	6853.5	6913.9	6864.3	6783.4	7561.4	8512.2	9135.9	9070.1
45°	7038.1	7033.7	7173.0	7244.2	7414.6	7451.4	7402.8	8157.1	9198.4	9786.6	9642.0
47.5°	7218.2	7206.4	7283.0	7557.1	7872.2	7946.7	8040.6	8821.9	9843.8	10361.8	10186.9
50°	7316.5	7320.8	7478.3	7848.5	8314.7	8486.2	8683.8	9611.8	10499.9	10977.9	10688.8
52.5°	7380.2	7426.5	7658.5	8104.2	8740.9	9042.0	9268.6	10465.3	11243.4	11559.6	11250.9
55°	7425.4	7507.5	7739.5	8242.4	9007.5	9506.0	9837.4	11365.3	12089.4	12289.1	11846.6
57.5°	7133.0	7220.5	7611.0	8267.2	9227.6	9897.8	10489.1	12329.0	13079.1	13097.4	12400.2
60°	6655.0	6709.0	7208.6	8115.0	9196.3	10258.1	11288.8	13470.7	14181.9	14172.1	13084.4
62.5°	6160.8	6188.8	6696.0	7713.6	9019.3	10390.9	12050.6	15005.2	15616.0	15328.0	13781.6
65°	5507.9	5539.1	6062.5	7051.0	8527.2	10301.4	12702.4	16614.3	17347.0	16887.3	14456.0
67.5°	4657.5	4716.9	5200.3	6118.7	7726.6	9828.7	13198.8	17717.1	18188.6	17786.2	14928.6
70°	3632.4	3685.2	4116.9	4982.4	6571.9	8865.0	13429.7	18105.5	18386.2	18017.1	15008.5
72.5°	2586.7	2625.5	2816.5	3540.6	4984.5	7408.2	13210.7	17918.9	18064.6	17603.8	14466.8
75°	1969.4	1938.1	2051.4	2325.5	2915.8	5205.7	11878.0	17075.0	17223.9	16715.7	13410.3
77.5°	1425.6	1400.7	1536.6	1749.3	2034.2	2447.4	8349.2	15341.9	15534.0	15118.5	11616.8
80°	838.5	874.1	1054.3	1256.1	1482.7	1630.6	3936.7	11461.4	12307.5	12138.0	8469.0
82.5°	159.7	172.7	438.2	665.8	816.9	864.3	1490.3	6304.3	7225.9	7410.4	4474.0
85°	104.7	113.3	262.2	267.6	261.2	334.5	602.1	3037.8	3901.1	3945.3	1965.1
87.5°	48.5	53.9	79.8	115.4	146.8	175.9	198.5	815.8	1205.4	1233.4	388.5
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°	2619.0	2619.0	2619.0	2619.0	2619.0	2619.0	2619.0	2619.0	2619.0	2619.0	2619.0
2.5°	2604.0	2593.2	2570.5	2551.1	2538.1	2530.5	2487.4	2479.8	2463.6	2451.8	2446.4
5°	2642.8	2622.3	2567.3	2529.5	2480.9	2440.9	2368.7	2332.0	2310.4	2287.8	2282.4
7.5°	2708.6	2675.2	2588.8	2520.9	2437.8	2365.5	2264.1	2205.8	2164.7	2132.3	2129.1
10°	2801.4	2748.5	2624.4	2525.1	2405.3	2306.1	2179.8	2086.0	2028.8	1986.7	1984.6
12.5°	2916.8	2844.6	2691.3	2559.7	2405.3	2268.3	2118.3	1993.1	1909.0	1851.8	1845.3
15°	3061.5	2975.1	2802.5	2640.6	2458.2	2283.4	2076.2	1907.9	1784.9	1693.2	1688.8
17.5°	3241.7	3152.1	2983.8	2801.4	2558.6	2307.2	2045.0	1807.6	1629.5	1520.5	1508.7
20°	3469.4	3427.3	3254.6	2988.1	2662.3	2319.1	1974.8	1668.3	1426.6	1286.3	1268.0
22.5°	3795.3	3771.5	3524.4	3147.8	2721.5	2282.4	1859.4	1446.0	1152.5	1001.4	987.4
25°	4203.2	4121.2	3766.1	3266.5	2732.3	2201.4	1664.0	1162.2	834.1	684.2	678.8
27.5°	4628.4	4479.5	3975.5	3349.6	2701.0	2038.5	1390.0	826.6	520.1	424.1	425.1
30°	5164.7	4882.0	4212.9	3428.4	2628.8	1817.2	1030.5	514.8	327.0	268.7	261.2
32.5°	5783.0	5391.3	4450.3	3459.7	2493.8	1504.3	654.0	316.2	205.0	174.8	171.6
35°	6504.9	6021.5	4755.7	3462.9	2271.6	1118.0	391.7	185.6	139.2	140.3	142.5
37.5°	7258.2	6689.5	5128.0	3424.1	1994.2	699.3	221.2	119.8	119.8	142.5	150.0
40°	7940.2	7328.4	5522.9	3336.7	1603.6	406.8	125.2	103.6	110.1	133.8	140.3
42.5°	8566.1	7880.9	5884.5	3200.7	1144.9	220.1	107.9	93.9	99.3	110.1	113.3
45°	9107.8	8361.0	6144.6	2981.6	695.0	136.0	99.3	85.2	84.2	91.7	93.9
47.5°	9575.1	8790.6	6320.4	2668.7	363.7	129.5	96.0	77.7	72.3	75.6	76.6
50°	10054.2	9108.9	6386.3	2229.5	186.6	121.9	89.6	72.3	66.9	76.6	77.7
52.5°	10538.8	9587.0	6394.9	1615.5	147.9	110.1	82.0	66.9	64.8	85.2	88.5
55°	11010.3	9935.5	6270.8	935.6	143.5	102.5	74.5	60.4	62.6	64.8	64.8
57.5°	11507.8	10353.1	6009.6	409.0	139.2	93.9	69.1	55.0	46.4	51.8	53.9
60°	12040.9	10713.6	5484.1	236.4	132.7	84.2	59.4	45.4	38.9	38.9	42.1
62.5°	12579.4	10977.9	4624.0	172.7	126.2	78.8	51.8	40.0	32.3	32.3	34.6
65°	12929.0	10802.1	3566.6	153.3	121.9	71.2	45.4	34.6	25.9	24.8	27.0
67.5°	12865.4	10128.7	2512.2	137.0	111.2	64.8	40.0	30.2	22.7	18.3	19.4
70°	12337.7	9028.0	1393.1	128.5	99.3	59.4	35.6	27.0	18.3	11.9	11.9
72.5°	11365.3	7586.2	535.2	115.4	88.5	51.8	32.3	25.9	16.2	6.5	5.4
75°	9913.9	5773.3	193.1	97.1	73.3	47.5	31.3	27.0	15.2	2.1	0.0
77.5°	7773.0	3230.9	114.4	72.3	55.0	41.0	33.5	27.0	8.6	0.0	0.0
80°	4175.2	1166.5	81.0	46.4	36.7	30.2	30.2	21.6	4.3	0.0	0.0
82.5°	1733.0	262.2	51.8	25.9	24.8	19.4	19.4	9.8	1.1	0.0	0.0
85°	491.1	76.6	23.7	14.0	14.0	10.8	5.4	0.0	0.0	0.0	0.0
87.5°	42.1	16.2	6.5	7.5	5.4	2.1	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)