

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: P285807

Luminaire Tested: **USSL-XL-C04-D-U-T3-AP-7030-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P285807
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-C04-D-U-T3-AP-7030-HSS
Description: PREVAIL XL AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3000K 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: 34346.1 lumens
Efficiency: N/A
Efficacy: 130.1 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): 264
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

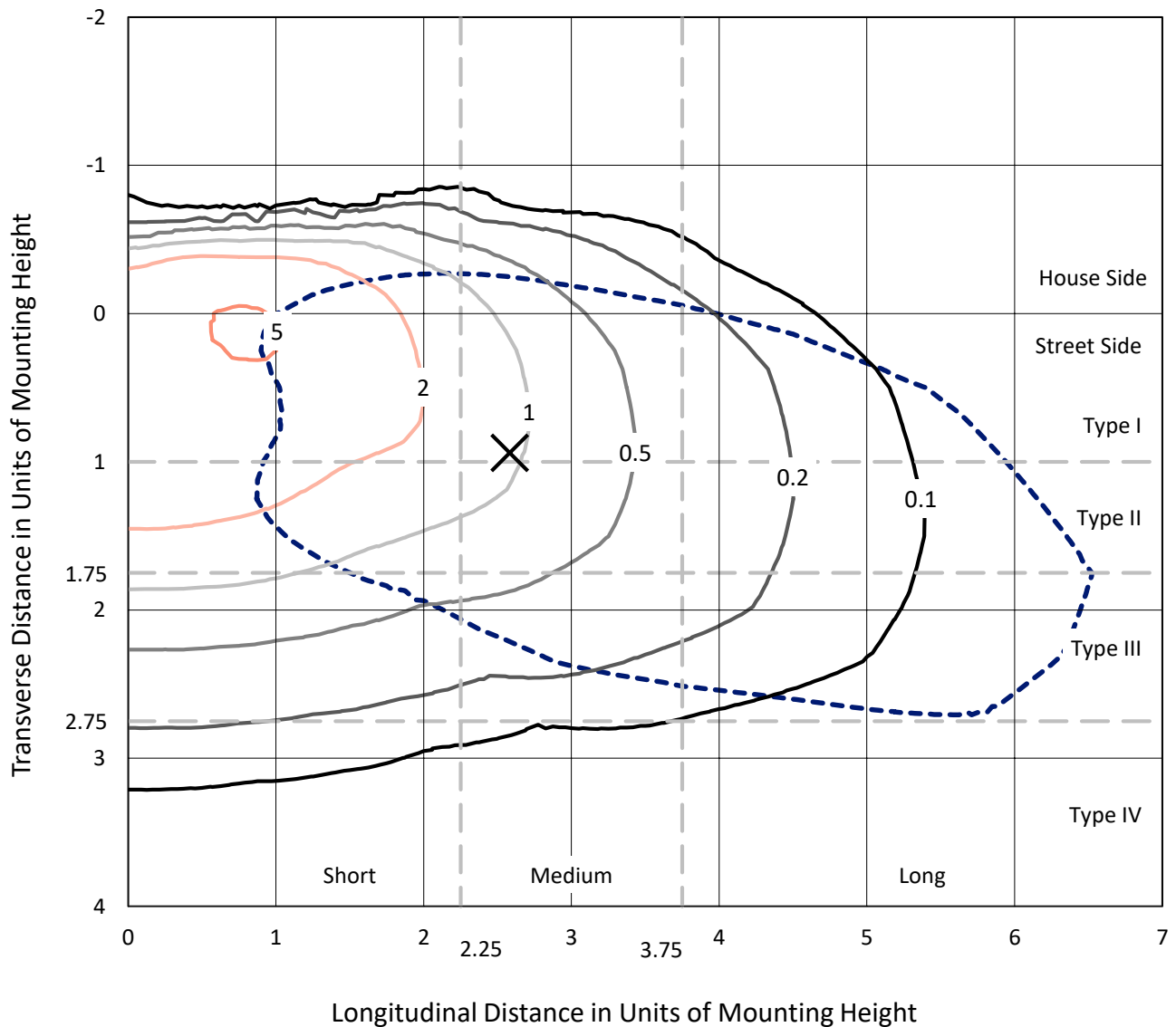


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

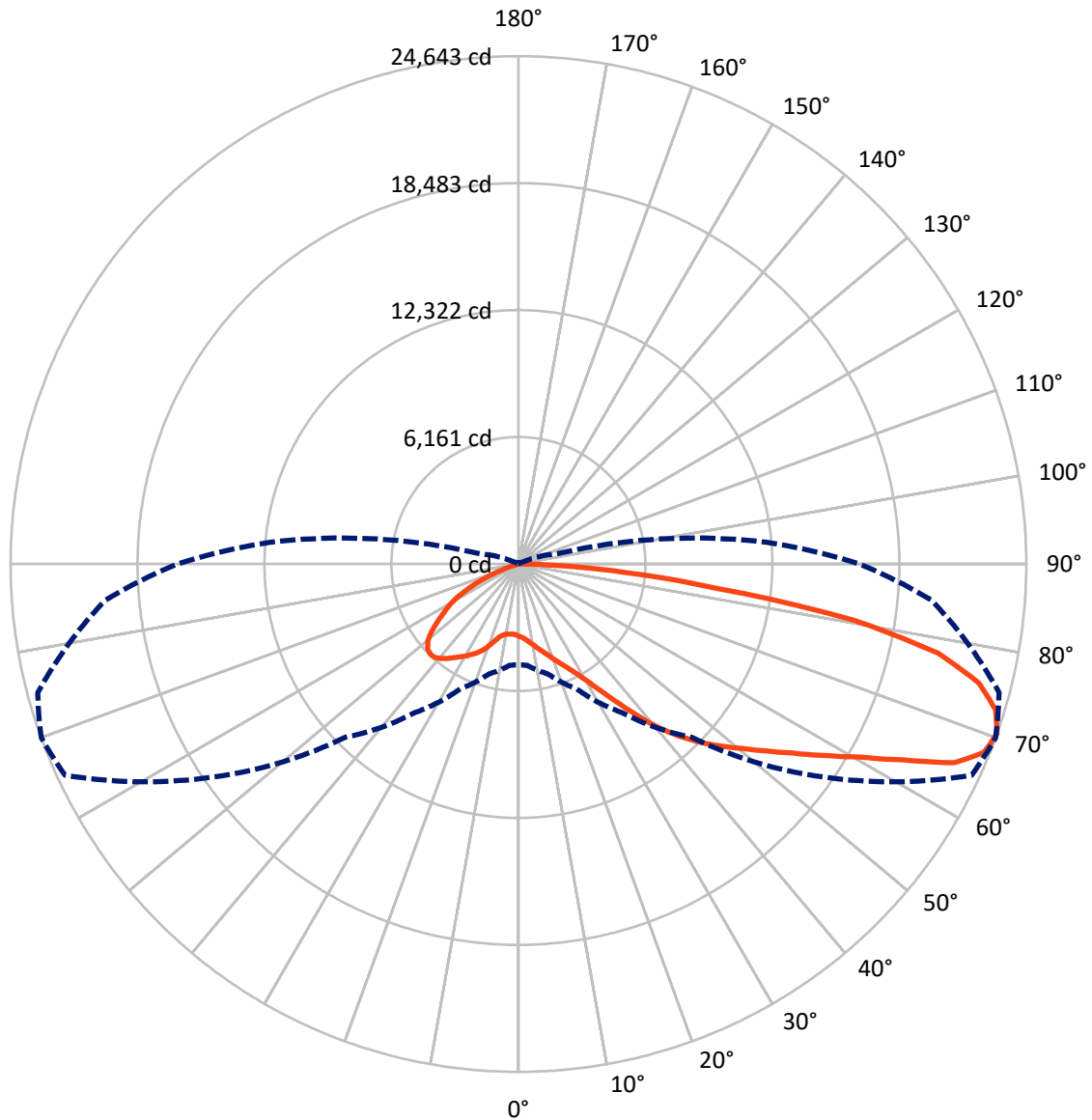


Based on 30 foot mounting height. Maximum calculated value = 5.6 fc
 Type III - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



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



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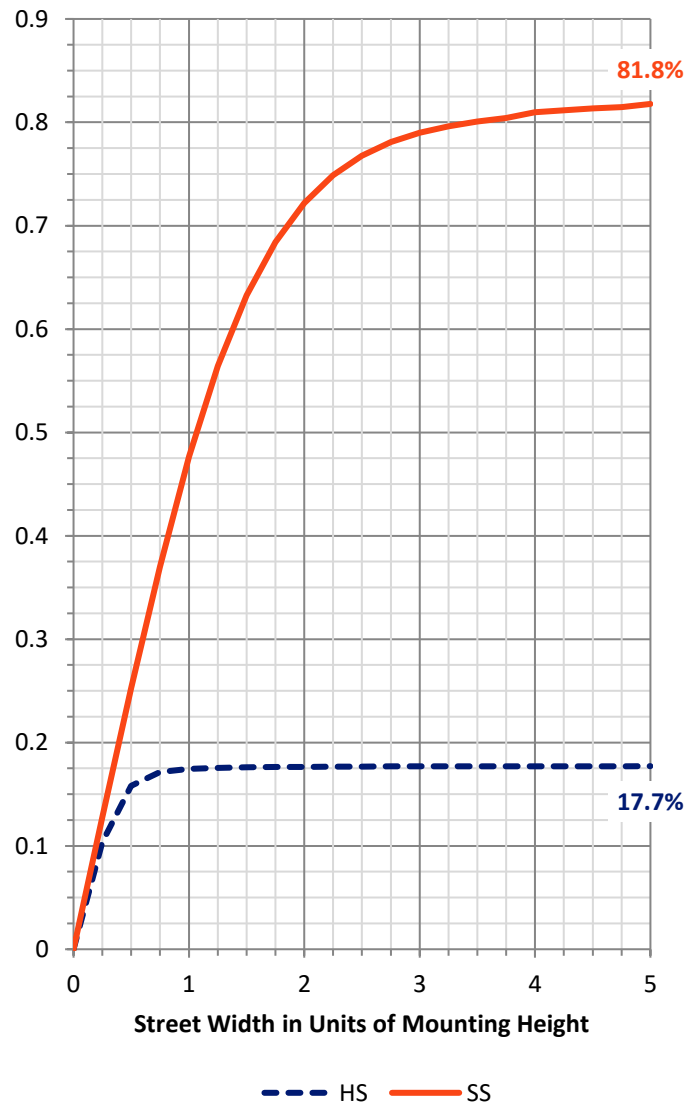
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6154.6	0.0	6154.6
	% Fixture	17.9	0.0	17.9
Street Side	Lumens	28191.5	0.0	28191.5
	% Fixture	82.1	0.0	82.1
Total	Lumens	34346.1	0.0	34346.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	339.3	1.0
10°-20°	1066.4	3.1
20°-30°	1941.9	5.7
30°-40°	3301.4	9.6
40°-50°	5192.9	15.1
50°-60°	7009.9	20.4
60°-70°	8200.8	23.9
70°-80°	6102.3	17.8
80°-90°	1191.3	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°	34346.1	100.0
0°-180°	34346.1	100.0

Coefficient of Utilization



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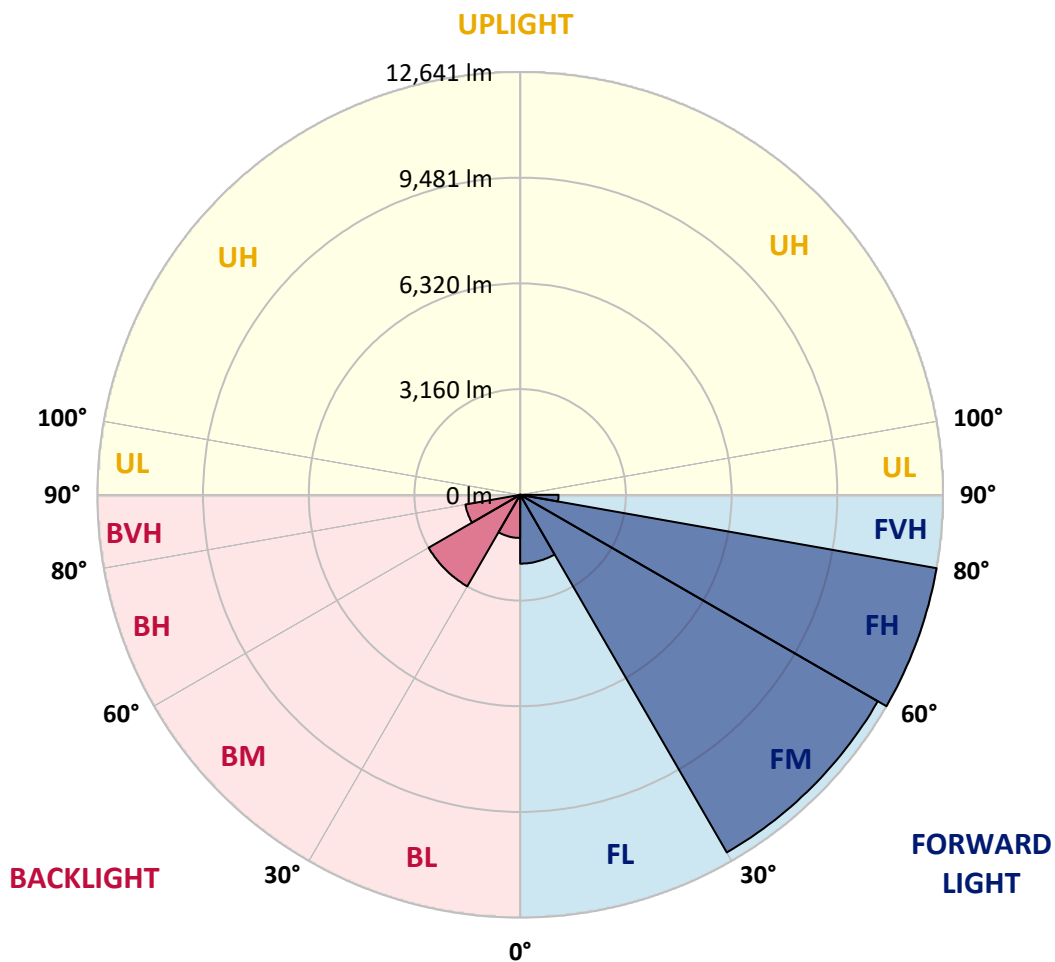
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2057.5	6.0			
FM	(30°-60°)	12345.4	35.9			
FH	(60°-80°)	12641.0	36.8			G5
FVH	(80°-90°)	1147.6	3.3			G5
BL	(0°-30°)	1290.1	3.8	B3/2500		
BM	(30°-60°)	3158.7	9.2	B3/5000		
BH	(60°-80°)	1662.1	4.8	B3/2500		G3/2500
BVH	(80°-90°)	43.7	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°	3510.4	3510.4	3510.4	3510.4	3510.4	3510.4	3510.4	3510.4	3510.4	3510.4	3510.4
2.5°	3707.1	3704.1	3710.0	3695.4	3704.1	3676.7	3652.1	3617.4	3563.9	3545.0	3508.9
5°	3887.8	3890.8	3889.3	3879.2	3866.2	3837.3	3788.1	3740.3	3676.7	3646.3	3575.5
7.5°	4042.7	4044.0	4049.9	4047.0	4039.7	4002.1	3957.2	3896.5	3819.9	3780.9	3683.9
10°	4165.6	4164.1	4172.8	4185.9	4214.8	4185.9	4126.5	4077.3	3994.9	3942.8	3822.7
12.5°	4246.6	4236.4	4261.0	4297.2	4349.3	4353.6	4314.5	4263.9	4191.6	4130.9	3996.4
15°	4284.2	4279.9	4324.7	4399.9	4475.1	4499.7	4493.9	4456.2	4402.8	4342.0	4195.9
17.5°	4372.4	4370.9	4401.3	4489.5	4577.8	4640.0	4703.6	4697.8	4648.6	4605.3	4453.4
20°	4515.6	4518.5	4518.5	4595.1	4692.1	4802.0	4927.8	4966.9	4927.8	4901.8	4755.7
22.5°	4690.6	4677.6	4668.9	4732.6	4851.2	5004.4	5182.4	5254.7	5248.9	5222.9	5134.7
25°	4936.5	4907.5	4845.3	4924.9	5071.0	5250.3	5458.6	5580.2	5590.2	5597.4	5661.1
27.5°	5327.1	5325.6	5220.0	5225.7	5325.6	5533.8	5788.4	5998.1	6027.0	6108.1	6326.4
30°	6113.8	6034.3	5912.8	5719.0	5685.7	5882.4	6186.1	6507.3	6589.7	6837.0	7101.8
32.5°	6850.0	6790.8	6705.5	6481.2	6207.8	6280.2	6625.9	7101.8	7318.7	7811.9	8053.4
35°	7482.2	7451.7	7388.1	7255.0	7007.7	6821.1	7104.6	7762.7	8219.7	8942.9	9154.1
37.5°	8099.8	8076.5	8034.7	7917.5	7762.7	7483.5	7661.5	8542.3	9285.8	10133.3	10241.8
40°	8642.1	8634.9	8671.0	8598.8	8530.7	8357.2	8305.1	9365.3	10399.4	11293.3	11267.3
42.5°	9116.5	9105.0	9281.4	9185.9	9266.9	9200.5	9091.9	10134.8	11409.1	12245.0	12156.8
45°	9433.3	9427.5	9614.0	9709.5	9938.0	9987.2	9922.1	10933.2	12329.0	13117.2	12923.4
47.5°	9674.9	9658.9	9761.6	10128.9	10551.3	10651.1	10777.0	11824.1	13193.8	13888.1	13653.8
50°	9806.4	9812.2	10023.4	10519.5	11144.3	11374.3	11639.0	12882.9	14073.2	14714.0	14326.4
52.5°	9891.7	9953.9	10264.9	10862.3	11715.7	12119.2	12423.0	14026.9	15069.8	15493.6	15079.9
55°	9952.6	10062.5	10373.5	11047.4	12072.9	12741.2	13185.2	15233.3	16203.8	16471.4	15878.4
57.5°	9560.5	9677.7	10201.3	11080.7	12368.0	13266.1	14058.8	16524.9	17530.1	17554.7	16620.3
60°	8919.8	8992.1	9661.8	10876.8	12326.0	13749.2	15130.6	18055.2	19008.4	18995.3	17537.3
62.5°	8257.4	8295.0	8974.8	10338.7	12088.8	13927.2	16151.7	20111.9	20930.6	20544.4	18471.7
65°	7382.3	7424.3	8125.7	9450.6	11429.3	13807.1	17025.3	22268.4	23250.5	22634.4	19375.7
67.5°	6242.6	6322.1	6970.1	8201.0	10356.1	13173.6	17690.7	23746.6	24378.7	23839.2	20009.2
70°	4868.5	4939.3	5517.9	6677.9	8808.4	11882.0	18000.2	24267.4	24643.4	24148.8	20116.3
72.5°	3466.9	3519.1	3775.0	4745.6	6680.9	9929.4	17706.6	24017.1	24212.4	23594.8	19390.1
75°	2639.7	2597.7	2749.6	3117.0	3908.1	6977.3	15920.3	22886.0	23085.7	22404.4	17974.1
77.5°	1910.7	1877.4	2059.6	2344.6	2726.4	3280.4	11190.6	20563.1	20820.6	20263.8	15570.2
80°	1123.8	1171.6	1413.1	1683.5	1987.3	2185.5	5276.4	15362.0	16496.0	16268.8	11351.2
82.5°	214.1	231.4	587.2	892.4	1094.9	1158.6	1997.5	8449.7	9684.9	9932.3	5996.7
85°	140.3	151.9	351.5	358.7	350.0	448.3	807.1	4071.6	5228.7	5287.9	2633.9
87.5°	65.1	72.3	107.0	154.7	196.7	235.7	266.1	1093.5	1615.6	1653.2	520.7
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°	3510.4	3510.4	3510.4	3510.4	3510.4	3510.4	3510.4	3510.4	3510.4	3510.4	3510.4
2.5°	3490.1	3475.6	3445.3	3419.2	3401.9	3391.8	3333.9	3323.7	3302.1	3286.2	3278.9
5°	3542.2	3514.7	3441.0	3390.3	3325.2	3271.7	3174.8	3125.6	3096.7	3066.3	3059.1
7.5°	3630.4	3585.5	3469.9	3378.7	3267.4	3170.5	3034.5	2956.4	2901.5	2858.0	2853.7
10°	3754.8	3683.9	3517.6	3384.5	3224.0	3090.9	2921.7	2795.8	2719.2	2662.8	2659.9
12.5°	3909.5	3812.7	3607.3	3430.8	3224.0	3040.3	2839.3	2671.5	2558.6	2482.0	2473.3
15°	4103.4	3987.7	3756.3	3539.3	3294.8	3060.6	2782.9	2557.2	2392.3	2269.4	2263.6
17.5°	4345.0	4224.9	3999.2	3754.8	3429.4	3092.4	2740.9	2422.7	2184.0	2038.0	2022.1
20°	4650.1	4593.7	4362.2	4005.0	3568.3	3108.3	2646.9	2236.1	1912.1	1724.0	1699.4
22.5°	5086.9	5055.1	4723.9	4219.0	3647.8	3059.1	2492.1	1938.1	1544.7	1342.3	1323.4
25°	5633.7	5523.7	5047.9	4378.2	3662.3	2950.7	2230.3	1557.7	1118.1	917.0	909.8
27.5°	6203.5	6003.9	5328.4	4489.5	3620.3	2732.2	1863.0	1107.9	697.2	568.4	569.9
30°	6922.3	6543.4	5646.6	4595.1	3523.4	2435.7	1381.3	689.9	438.3	360.2	350.0
32.5°	7751.2	7226.1	5964.9	4637.1	3342.6	2016.2	876.5	423.7	274.8	234.3	230.0
35°	8718.7	8070.8	6374.2	4641.4	3044.7	1498.5	525.1	248.8	186.5	188.0	190.9
37.5°	9728.3	8966.1	6873.2	4589.4	2672.9	937.3	296.6	160.6	160.6	190.9	201.1
40°	10642.5	9822.3	7402.6	4472.2	2149.3	545.3	167.8	138.8	147.5	179.3	188.0
42.5°	11481.4	10562.9	7887.1	4289.9	1534.6	295.1	144.7	125.8	133.0	147.5	151.9
45°	12207.4	11206.5	8235.6	3996.4	931.4	182.2	133.0	114.3	112.8	122.9	125.8
47.5°	12833.7	11782.2	8471.5	3576.8	487.4	173.6	128.8	104.2	96.9	101.2	102.7
50°	13475.9	12208.9	8559.6	2988.2	250.2	163.4	120.1	96.9	89.7	102.7	104.2
52.5°	14125.3	12849.6	8571.2	2165.3	198.2	147.5	109.9	89.7	86.8	114.3	118.6
55°	14757.4	13316.8	8404.9	1254.0	192.4	137.4	99.8	81.0	83.8	86.8	86.8
57.5°	15424.2	13876.5	8054.9	548.2	186.5	125.8	92.5	73.8	62.2	69.4	72.3
60°	16138.7	14359.6	7350.5	316.8	178.0	112.8	79.6	60.7	52.0	52.0	56.4
62.5°	16860.5	14714.0	6197.8	231.4	169.3	105.6	69.4	53.5	43.3	43.3	46.3
65°	17329.0	14478.2	4780.3	205.4	163.4	95.5	60.7	46.3	34.8	33.3	36.1
67.5°	17243.7	13575.7	3367.2	183.7	149.0	86.8	53.5	40.5	30.4	24.6	26.1
70°	16536.5	12100.3	1867.2	172.1	133.0	79.6	47.7	36.1	24.6	15.9	15.9
72.5°	15233.3	10168.0	717.4	154.7	118.6	69.4	43.3	34.8	21.7	8.7	7.2
75°	13287.9	7738.1	258.9	130.2	98.4	63.6	42.0	36.1	20.2	2.9	0.0
77.5°	10418.3	4330.4	153.4	96.9	73.8	55.0	44.8	36.1	11.6	0.0	0.0
80°	5596.1	1563.6	108.4	62.2	49.2	40.5	40.5	28.9	5.8	0.0	0.0
82.5°	2322.9	351.5	69.4	34.8	33.3	26.1	26.1	13.0	1.5	0.0	0.0
85°	658.1	102.7	31.8	18.8	18.8	14.4	7.2	0.0	0.0	0.0	0.0
87.5°	56.4	21.7	8.7	10.2	7.2	2.9	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)