

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: P285812

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P285812
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-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: 34982 lumens
Efficiency: N/A
Efficacy: 132.5 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

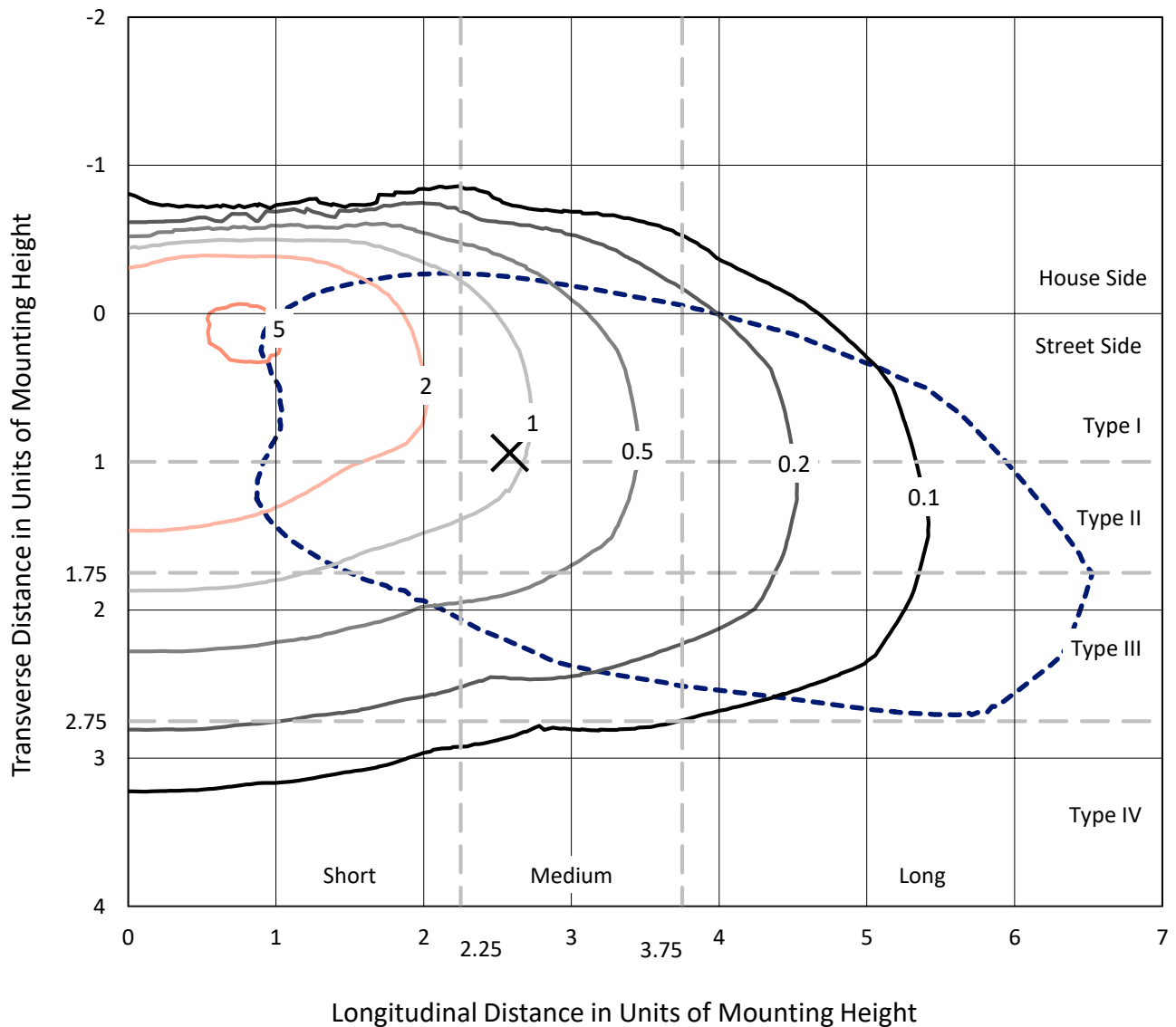
Input Watts (W): 264
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

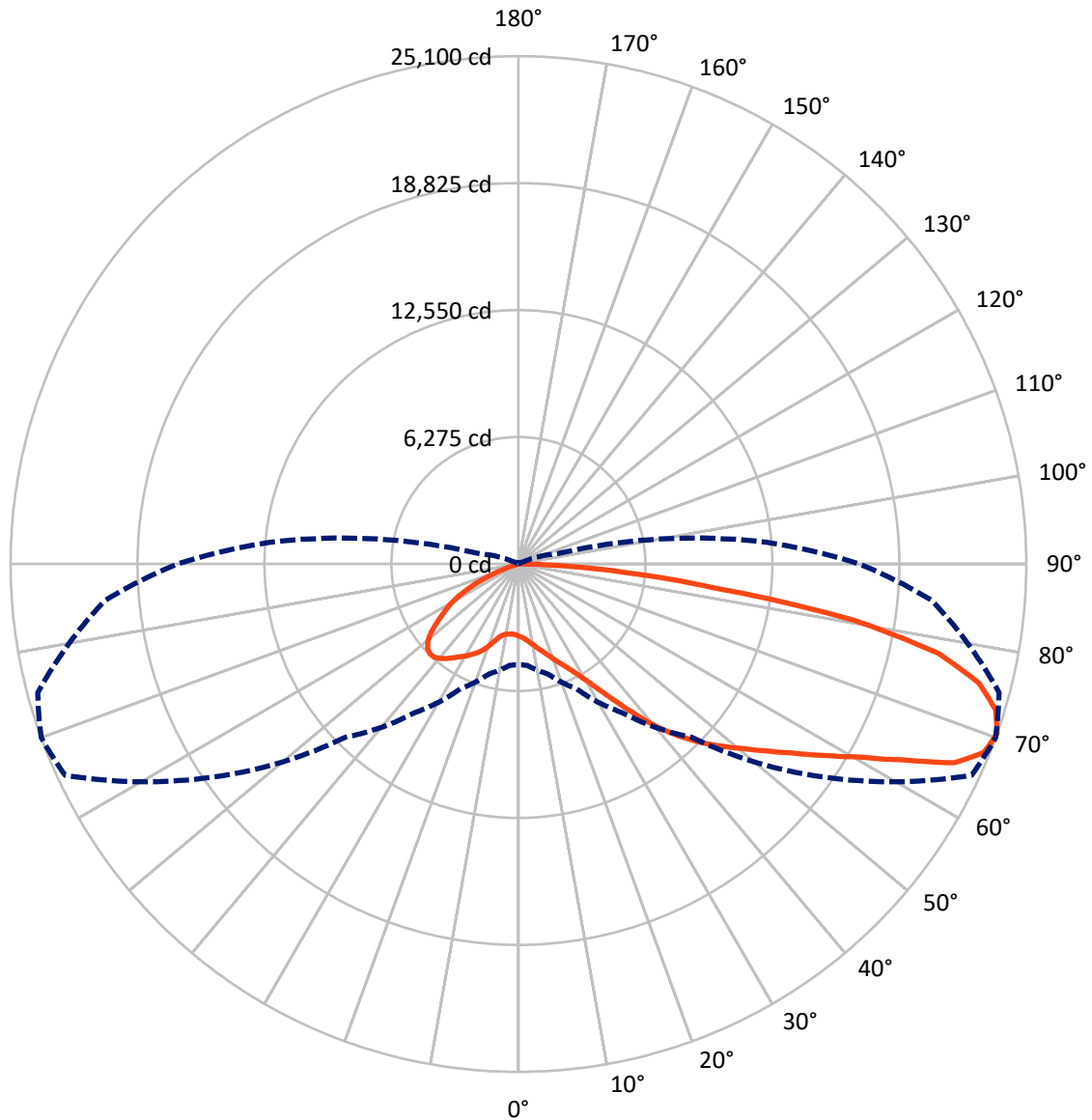
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5.8 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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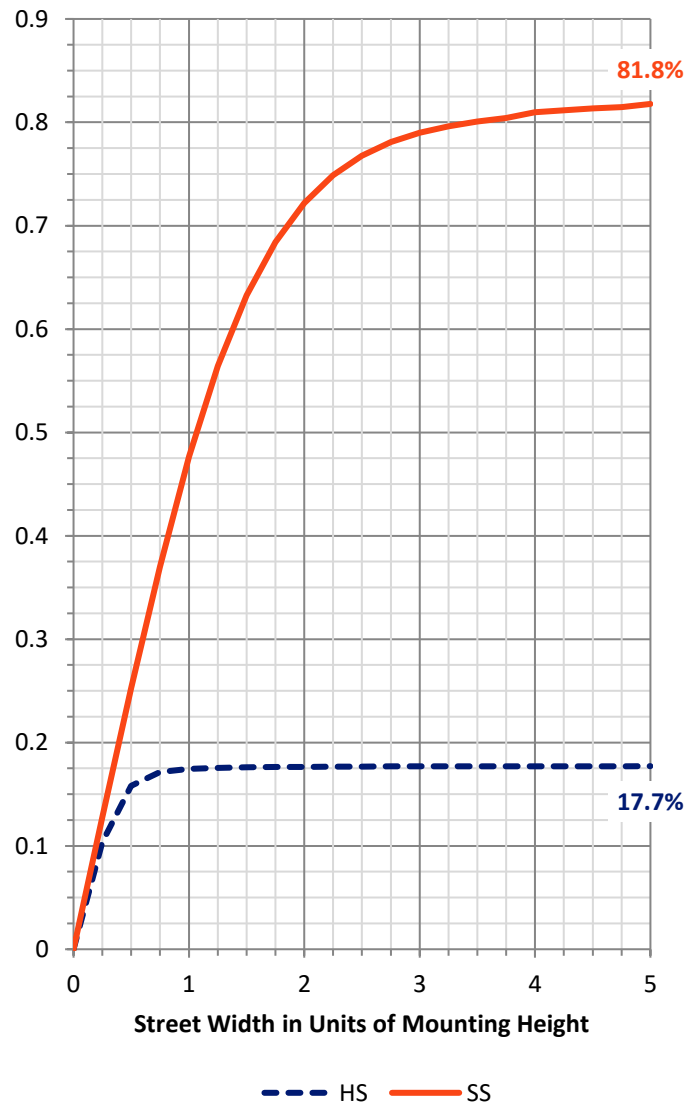
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6268.5	0.0	6268.5
	% Fixture	17.9	0.0	17.9
Street Side	Lumens	28713.5	0.0	28713.5
	% Fixture	82.1	0.0	82.1
Total	Lumens	34982.0	0.0	34982.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	345.6	1.0
10°-20°	1086.1	3.1
20°-30°	1977.8	5.7
30°-40°	3362.5	9.6
40°-50°	5289.1	15.1
50°-60°	7139.7	20.4
60°-70°	8352.7	23.9
70°-80°	6215.2	17.8
80°-90°	1213.3	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°	34982.0	100.0
0°-180°	34982.0	100.0

Coefficient of Utilization



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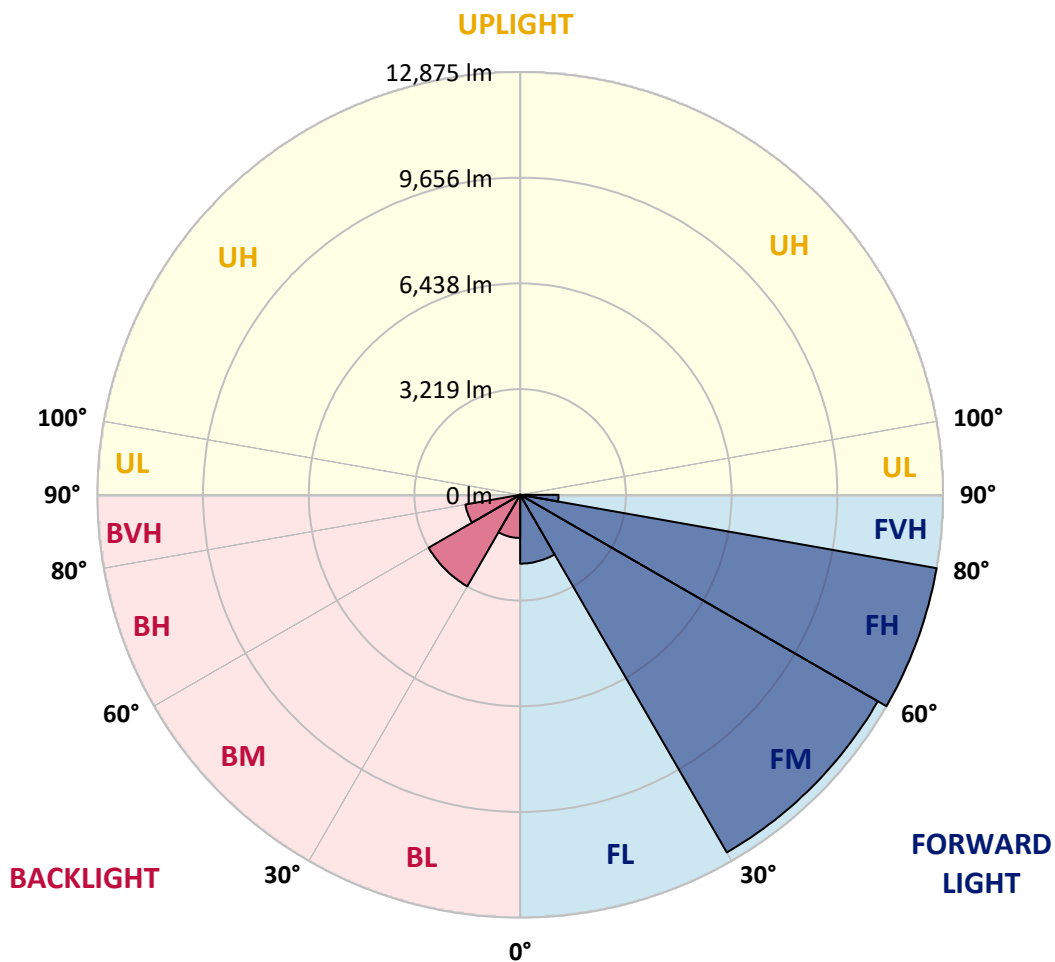
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2095.6	6.0			
FM	(30°-60°)	12574.0	35.9			
FH	(60°-80°)	12875.0	36.8			G5
FVH	(80°-90°)	1168.9	3.3			G5
BL	(0°-30°)	1313.9	3.8	B3/2500		
BM	(30°-60°)	3217.2	9.2	B3/5000		
BH	(60°-80°)	1692.9	4.8	B3/2500		G3/2500
BVH	(80°-90°)	44.5	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°	3575.4	3575.4	3575.4	3575.4	3575.4	3575.4	3575.4	3575.4	3575.4	3575.4	3575.4
2.5°	3775.7	3772.7	3778.6	3763.9	3772.7	3744.7	3719.7	3684.3	3629.8	3610.8	3573.9
5°	3959.9	3962.8	3961.4	3951.0	3937.7	3908.3	3858.2	3809.6	3744.7	3713.8	3641.6
7.5°	4117.5	4119.0	4124.8	4122.0	4114.5	4076.3	4030.6	3968.7	3890.6	3850.8	3752.2
10°	4242.7	4241.2	4250.1	4263.3	4292.8	4263.3	4202.9	4152.8	4068.9	4015.9	3893.5
12.5°	4325.2	4314.9	4340.0	4376.8	4429.7	4434.2	4394.5	4342.8	4269.2	4207.4	4070.3
15°	4363.5	4359.1	4404.7	4481.4	4558.0	4583.0	4577.1	4538.8	4484.3	4422.4	4273.6
17.5°	4453.4	4451.9	4482.8	4572.7	4662.5	4725.9	4790.7	4784.8	4734.7	4690.6	4535.8
20°	4599.2	4602.2	4602.2	4680.2	4778.9	4890.9	5019.1	5058.8	5019.1	4992.6	4843.7
22.5°	4777.5	4764.1	4755.3	4820.2	4940.9	5097.2	5278.3	5352.0	5346.1	5319.5	5229.8
25°	5027.8	4998.4	4935.1	5016.1	5164.9	5347.5	5559.7	5683.4	5693.8	5701.1	5766.0
27.5°	5425.6	5424.1	5316.7	5322.5	5424.1	5636.3	5895.6	6109.2	6138.6	6221.2	6443.6
30°	6227.0	6146.0	6022.2	5824.9	5791.0	5991.3	6300.7	6627.8	6711.7	6963.6	7233.2
32.5°	6976.9	6916.5	6829.6	6601.3	6322.8	6396.5	6748.5	7233.2	7454.2	7956.6	8202.6
35°	7620.7	7589.7	7524.9	7389.4	7137.5	6947.4	7236.1	7906.4	8371.9	9108.6	9323.6
37.5°	8249.7	8226.1	8183.4	8064.0	7906.4	7622.2	7803.3	8700.5	9457.7	10321.0	10431.4
40°	8802.2	8794.7	8831.6	8758.0	8688.7	8512.0	8458.8	9538.7	10592.0	11502.5	11475.9
42.5°	9285.4	9273.5	9453.2	9356.1	9438.5	9370.8	9260.2	10322.5	11620.3	12471.7	12381.9
45°	9608.0	9602.1	9792.1	9889.3	10122.0	10172.2	10105.8	11135.6	12557.2	13360.0	13162.7
47.5°	9854.0	9837.8	9942.4	10316.5	10746.6	10848.3	10976.5	12043.1	13438.2	14145.3	13906.6
50°	9988.0	9993.9	10209.0	10714.3	11350.7	11584.9	11854.6	13121.5	14333.9	14986.5	14591.6
52.5°	10075.0	10138.3	10455.0	11063.4	11932.6	12343.6	12653.0	14286.7	15348.8	15780.4	15359.1
55°	10136.8	10248.8	10565.5	11252.0	12296.4	12977.1	13429.4	15515.3	16503.8	16776.3	16172.4
57.5°	9737.6	9856.9	10390.2	11285.9	12597.0	13511.8	14319.1	16830.8	17854.7	17879.8	16928.1
60°	9084.9	9158.6	9840.7	11078.2	12554.3	14003.8	15410.7	18389.5	19360.2	19347.0	17862.1
62.5°	8410.3	8448.6	9141.0	10530.1	12312.6	14185.1	16450.8	20484.3	21318.1	20924.8	18813.8
65°	7519.0	7561.8	8276.2	9625.6	11640.9	14062.8	17340.6	22680.8	23681.0	23053.5	19734.4
67.5°	6358.1	6439.2	7099.1	8352.9	10547.8	13417.5	18018.2	24186.3	24830.1	24280.6	20379.7
70°	4958.6	5030.8	5620.1	6801.6	8971.5	12102.0	18333.4	24716.7	25099.7	24595.8	20488.7
72.5°	3531.2	3584.2	3844.9	4833.5	6804.6	10113.2	18034.4	24461.8	24660.7	24031.6	19749.1
75°	2688.5	2645.8	2800.5	3174.6	3980.5	7106.5	16215.1	23309.7	23513.1	22819.2	18306.9
77.5°	1946.1	1912.2	2097.8	2388.0	2776.9	3341.1	11397.8	20943.9	21206.2	20638.9	15858.5
80°	1144.7	1193.2	1439.2	1714.7	2024.1	2225.9	5374.1	15646.5	16801.3	16570.1	11561.4
82.5°	218.0	235.7	598.1	909.0	1115.2	1180.0	2034.5	8606.2	9864.3	10116.2	6107.7
85°	142.9	154.6	357.9	365.3	356.6	456.7	822.1	4147.0	5325.5	5385.9	2682.6
87.5°	66.2	73.7	109.1	157.6	200.3	240.2	271.0	1113.7	1645.5	1683.9	530.4
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°	3575.4	3575.4	3575.4	3575.4	3575.4	3575.4	3575.4	3575.4	3575.4	3575.4	3575.4
2.5°	3554.7	3540.0	3509.1	3482.5	3464.9	3454.5	3395.6	3385.3	3363.2	3347.1	3339.6
5°	3607.8	3579.8	3504.7	3453.0	3386.8	3332.3	3233.5	3183.5	3154.1	3123.1	3115.7
7.5°	3697.7	3652.0	3534.1	3441.3	3327.9	3229.2	3090.7	3011.2	2955.1	2910.9	2906.6
10°	3824.3	3752.2	3582.7	3447.2	3283.7	3148.1	2975.8	2847.6	2769.5	2712.1	2709.1
12.5°	3981.9	3883.3	3674.0	3494.4	3283.7	3096.6	2891.8	2721.0	2606.0	2528.0	2519.1
15°	4179.4	4061.5	3825.8	3604.8	3355.9	3117.2	2834.4	2604.5	2436.6	2311.4	2305.5
17.5°	4425.4	4303.1	4073.3	3824.3	3492.9	3149.6	2791.7	2467.6	2224.5	2075.7	2059.5
20°	4736.2	4678.7	4443.0	4079.1	3634.3	3165.8	2695.9	2277.5	1947.6	1756.0	1730.9
22.5°	5181.1	5148.7	4811.3	4297.2	3715.3	3115.7	2538.2	1974.1	1573.3	1367.1	1348.0
25°	5738.0	5625.9	5141.4	4459.2	3730.0	3005.2	2271.6	1586.6	1138.8	934.0	926.6
27.5°	6318.4	6115.1	5427.1	4572.7	3687.3	2782.8	1897.4	1128.5	710.0	578.9	580.4
30°	7050.6	6664.5	5751.2	4680.2	3588.6	2480.8	1406.9	702.7	446.3	366.8	356.6
32.5°	7894.7	7359.9	6075.3	4722.9	3404.5	2053.6	892.8	431.6	279.9	238.7	234.2
35°	8880.2	8220.3	6492.2	4727.4	3100.9	1526.2	534.7	253.4	190.0	191.5	194.5
37.5°	9908.5	9132.1	7000.4	4674.4	2722.4	954.7	302.0	163.5	163.5	194.5	204.8
40°	10839.5	10004.2	7539.6	4555.0	2189.1	555.4	170.9	141.4	150.3	182.6	191.5
42.5°	11694.0	10758.5	8033.1	4369.4	1563.0	300.5	147.3	128.1	135.6	150.3	154.6
45°	12433.5	11414.1	8388.2	4070.3	948.7	185.6	135.6	116.4	114.9	125.2	128.1
47.5°	13071.3	12000.4	8628.3	3643.1	496.5	176.8	131.1	106.1	98.7	103.1	104.6
50°	13725.4	12435.0	8718.1	3043.5	254.9	166.5	122.3	98.7	91.4	104.6	106.1
52.5°	14386.9	13087.5	8730.0	2205.3	201.8	150.3	111.9	91.4	88.4	116.4	120.8
55°	15030.7	13563.3	8560.5	1277.2	196.0	139.9	101.6	82.5	85.4	88.4	88.4
57.5°	15709.7	14133.4	8204.0	558.4	190.0	128.1	94.3	75.1	63.4	70.7	73.7
60°	16437.5	14625.6	7486.6	322.6	181.2	114.9	81.0	61.9	53.0	53.0	57.4
62.5°	17172.6	14986.5	6312.4	235.7	172.3	107.6	70.7	54.5	44.2	44.2	47.2
65°	17649.9	14746.3	4868.8	209.2	166.5	97.2	61.9	47.2	35.4	33.9	36.8
67.5°	17563.0	13827.0	3429.5	187.1	151.8	88.4	54.5	41.2	30.9	25.0	26.5
70°	16842.7	12324.4	1901.9	175.3	135.6	81.0	48.6	36.8	25.0	16.2	16.2
72.5°	15515.3	10356.3	730.7	157.6	120.8	70.7	44.2	35.4	22.0	8.8	7.3
75°	13533.9	7881.4	263.7	132.6	100.2	64.9	42.7	36.8	20.7	3.0	0.0
77.5°	10611.2	4410.7	156.1	98.7	75.1	56.0	45.7	36.8	11.8	0.0	0.0
80°	5699.6	1592.5	110.4	63.4	50.1	41.2	41.2	29.5	5.9	0.0	0.0
82.5°	2365.9	357.9	70.7	35.4	33.9	26.5	26.5	13.2	1.5	0.0	0.0
85°	670.3	104.6	32.4	19.2	19.2	14.7	7.3	0.0	0.0	0.0	0.0
87.5°	57.4	22.0	8.8	10.3	7.3	3.0	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)