

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: P285819

Luminaire Tested: **USSL-XL-C06-D-U-T3-AP-7050-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P285819
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-C06-D-U-T3-AP-7050-HSS
Description: PREVAIL XL AREA AND ROADWAY LUMINAIRE
(6) 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: 47689.1 lumens
Efficiency: N/A
Efficacy: 137.8 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

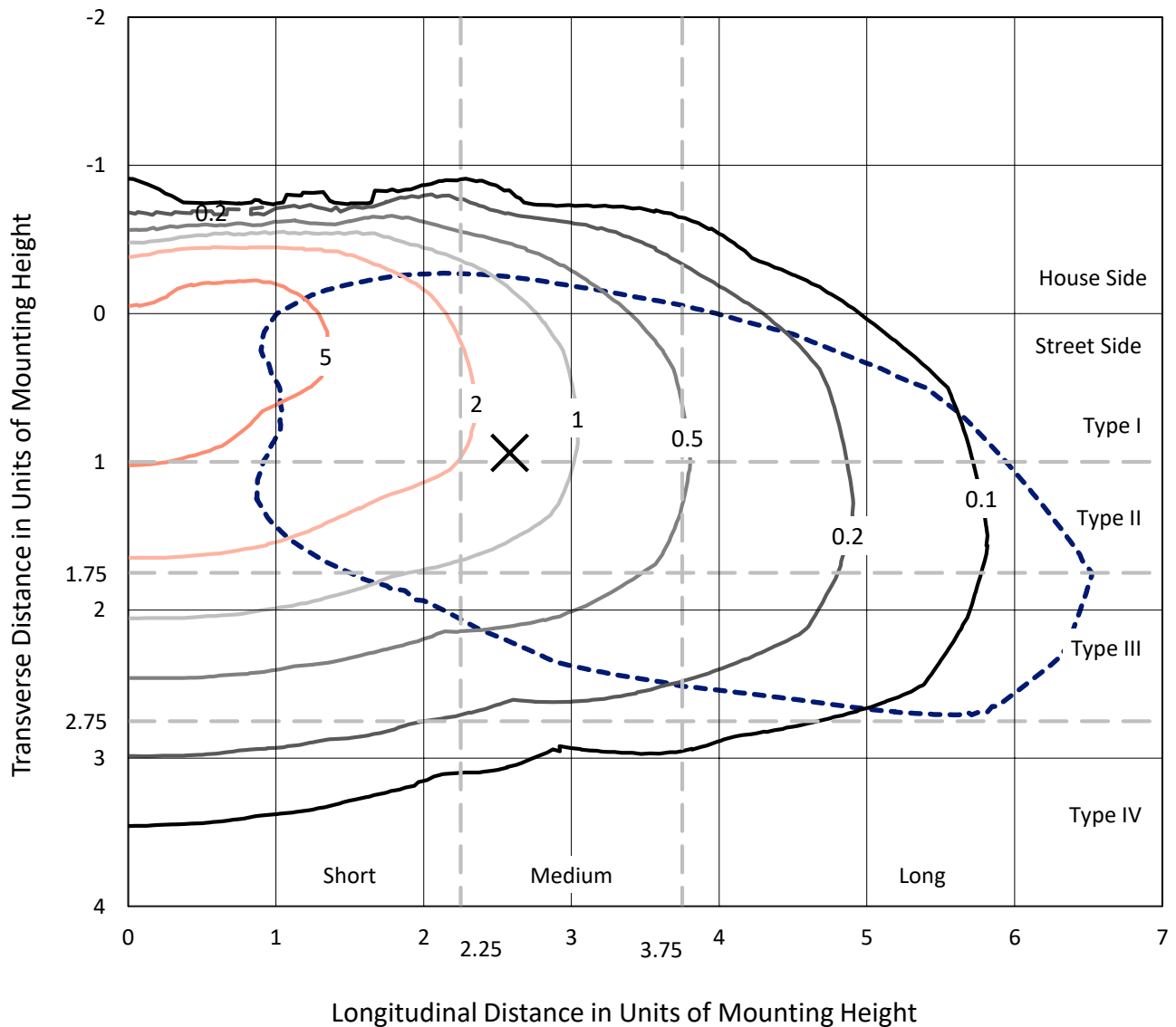
Input Watts (W): 346
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

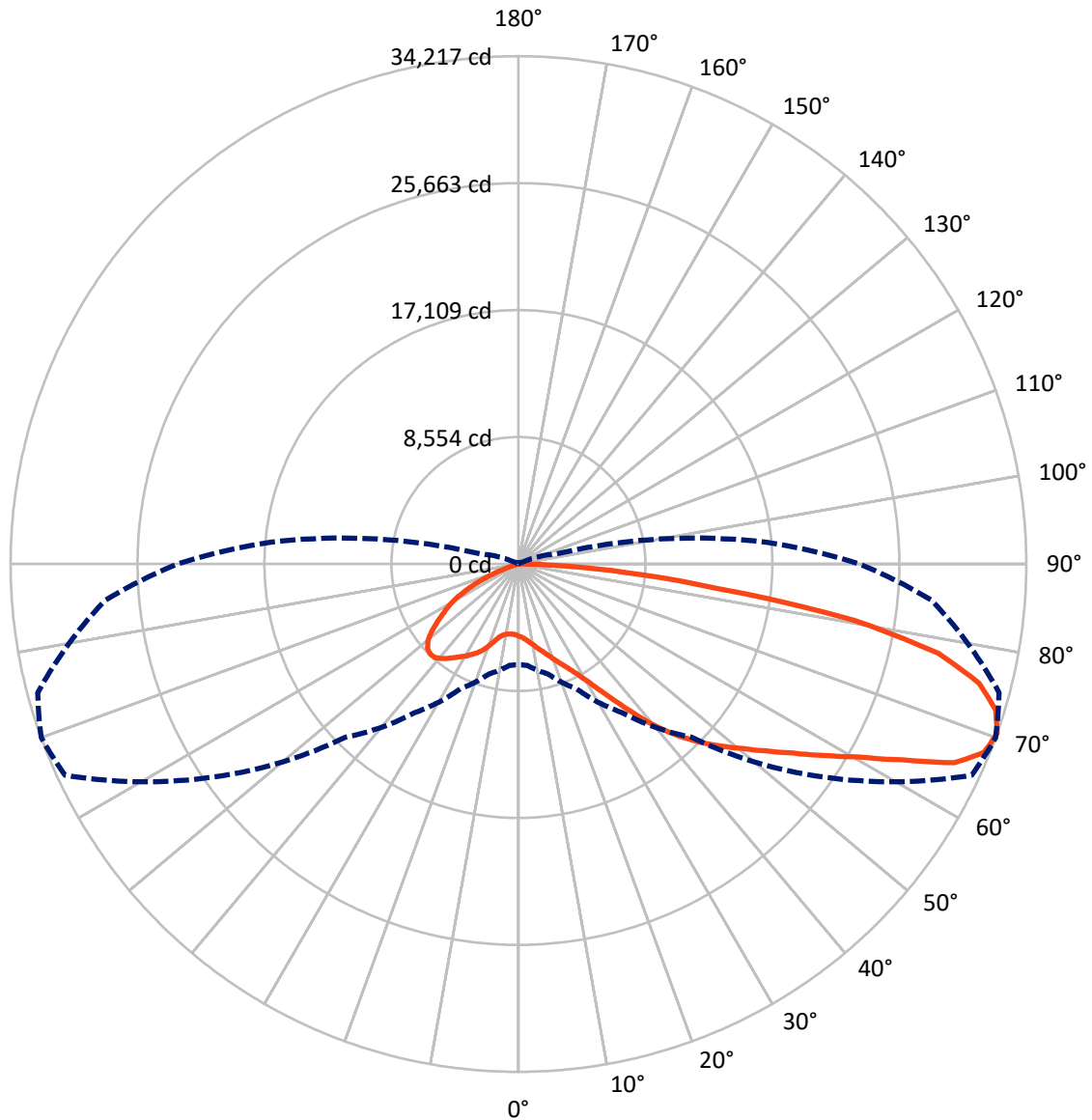


Based on 30 foot mounting height. Maximum calculated value = 7.8 fc
 Type III - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



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

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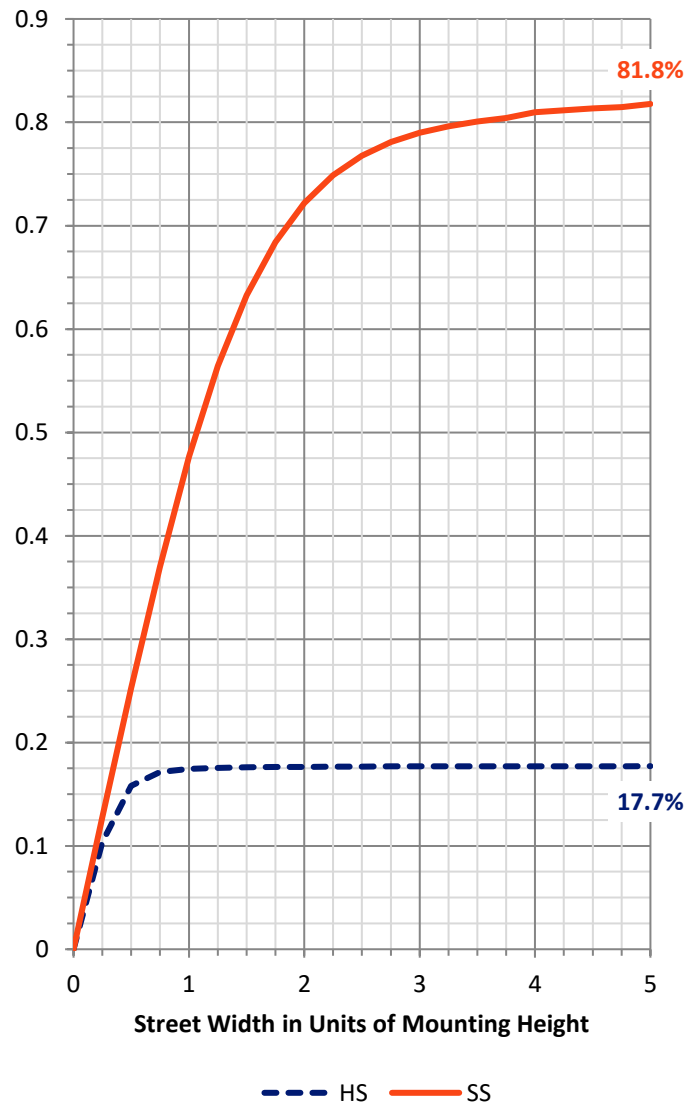
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8545.6	0.0	8545.6
	% Fixture	17.9	0.0	17.9
Street Side	Lumens	39143.6	0.0	39143.6
	% Fixture	82.1	0.0	82.1
Total	Lumens	47689.1	0.0	47689.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	471.1	1.0
10°-20°	1480.7	3.1
20°-30°	2696.2	5.7
30°-40°	4583.9	9.6
40°-50°	7210.3	15.1
50°-60°	9733.1	20.4
60°-70°	11386.8	23.9
70°-80°	8472.9	17.8
80°-90°	1654.1	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°	47689.1	100.0
0°-180°	47689.1	100.0

Coefficient of Utilization



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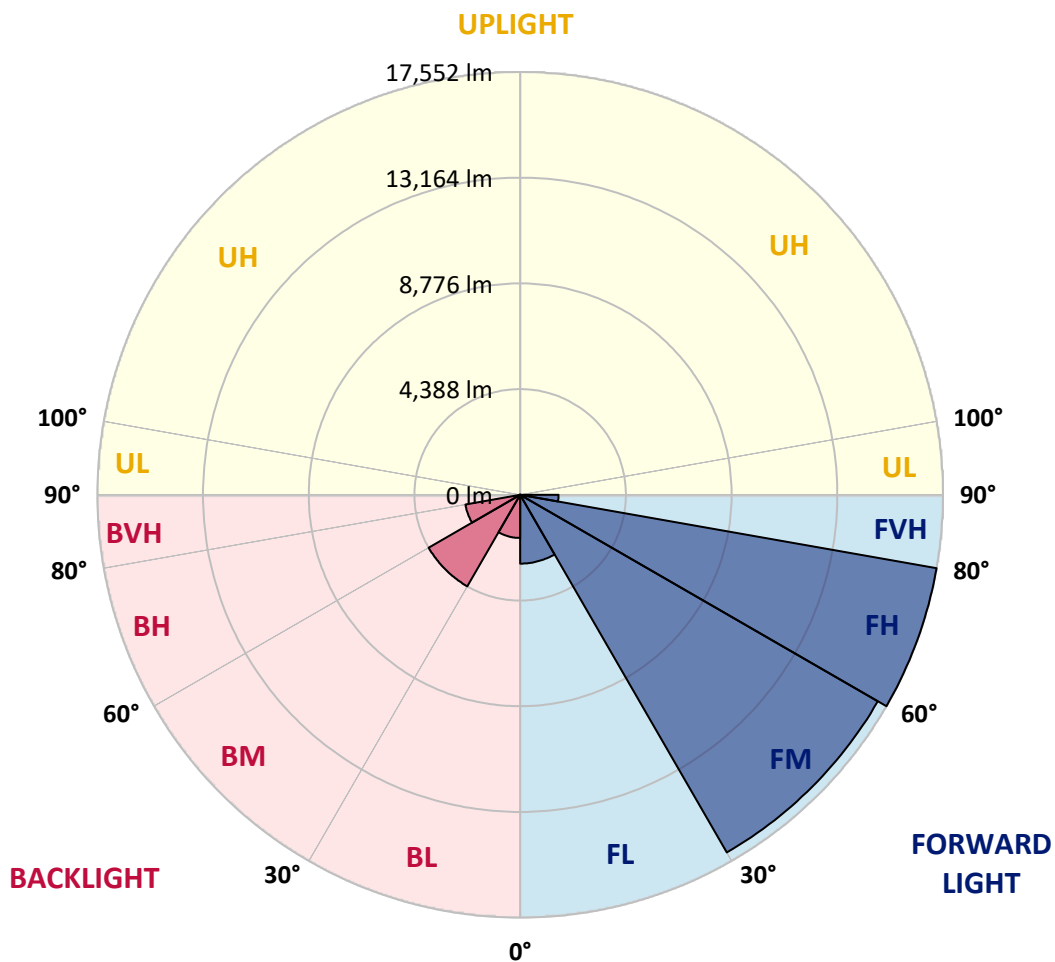
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2856.8	6.0			
FM	(30°-60°)	17141.5	35.9			
FH	(60°-80°)	17551.8	36.8			G5
FVH	(80°-90°)	1593.5	3.3			G5
BL	(0°-30°)	1791.2	3.8	B3/2500		
BM	(30°-60°)	4385.9	9.2	B3/5000		
BH	(60°-80°)	2307.9	4.8	B3/2500		G3/2500
BVH	(80°-90°)	60.6	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°	4874.1	4874.1	4874.1	4874.1	4874.1	4874.1	4874.1	4874.1	4874.1	4874.1	4874.1
2.5°	5147.2	5143.2	5151.2	5131.2	5143.2	5105.0	5070.9	5022.8	4948.4	4922.3	4872.0
5°	5398.3	5402.3	5400.3	5386.2	5368.2	5328.0	5259.6	5193.4	5105.0	5062.8	4964.5
7.5°	5613.1	5615.1	5623.2	5619.2	5609.1	5556.9	5494.6	5410.3	5303.8	5249.7	5115.1
10°	5783.9	5781.9	5793.8	5812.0	5852.1	5812.0	5729.6	5661.3	5546.9	5474.6	5307.9
12.5°	5896.3	5882.2	5916.4	5966.6	6038.9	6044.9	5990.7	5920.4	5820.0	5735.6	5548.9
15°	5948.5	5942.5	6004.8	6109.2	6213.7	6247.8	6239.7	6187.5	6113.2	6028.8	5826.1
17.5°	6071.0	6069.0	6111.2	6233.7	6356.2	6442.6	6530.9	6522.9	6454.6	6394.4	6183.5
20°	6269.8	6273.9	6273.9	6380.3	6514.9	6667.5	6842.2	6896.5	6842.2	6806.0	6603.2
22.5°	6512.9	6494.7	6482.8	6571.1	6735.8	6948.6	7195.7	7296.0	7288.1	7251.9	7129.4
25°	6854.3	6814.1	6727.7	6838.2	7041.0	7290.1	7579.2	7748.0	7762.0	7772.0	7860.4
27.5°	7396.5	7394.5	7247.9	7256.0	7394.5	7683.6	8037.1	8328.4	8368.5	8481.0	8784.2
30°	8489.0	8378.5	8209.9	7940.8	7894.6	8167.7	8589.4	9035.2	9149.7	9493.1	9860.7
32.5°	9511.2	9428.9	9310.4	8999.1	8619.5	8719.9	9199.9	9860.7	10161.9	10846.7	11182.2
35°	10388.8	10346.6	10258.3	10073.5	9730.1	9471.1	9864.7	10778.4	11413.1	12417.2	12710.4
37.5°	11246.4	11214.3	11156.0	10993.3	10778.4	10390.8	10637.9	11860.9	12893.2	14070.1	14220.7
40°	11999.4	11989.5	12039.6	11939.2	11844.8	11603.9	11531.5	13003.6	14439.5	15680.7	15644.5
42.5°	12658.2	12642.2	12887.1	12754.6	12867.1	12774.7	12624.0	14072.0	15841.4	17002.1	16879.6
45°	13098.0	13090.0	13349.0	13481.6	13798.9	13867.2	13776.8	15180.6	17118.6	18213.1	17944.0
47.5°	13433.4	13411.3	13553.9	14064.0	14650.4	14789.0	14963.7	16417.7	18319.5	19283.5	18958.2
50°	13616.1	13624.2	13917.3	14606.3	15473.8	15793.1	16160.6	17887.7	19540.5	20430.2	19892.0
52.5°	13734.6	13821.0	14252.8	15082.2	16267.0	16827.4	17249.1	19476.3	20924.2	21512.7	20938.3
55°	13819.0	13971.6	14403.4	15339.3	16763.2	17690.9	18307.4	21151.3	22498.8	22870.3	22046.9
57.5°	13274.7	13437.4	14164.4	15385.4	17172.8	18420.0	19520.5	22944.6	24340.4	24374.5	23077.2
60°	12385.0	12485.5	13415.4	15102.3	17114.5	19090.7	21008.6	25069.4	26392.8	26374.8	24350.4
62.5°	11465.3	11517.5	12461.4	14355.2	16785.2	19337.8	22426.4	27925.2	29061.8	28525.6	25647.8
65°	10250.3	10308.5	11282.5	13122.1	15869.5	19171.0	23639.5	30919.5	32283.1	31427.6	26902.9
67.5°	8667.8	8778.2	9677.9	11386.9	14379.2	18291.4	24563.3	32972.0	33849.6	33100.5	27782.5
70°	6759.8	6858.3	7661.6	9272.2	12230.4	16498.0	24993.1	33695.0	34217.1	33530.3	27931.1
72.5°	4813.9	4886.1	5241.6	6589.2	9276.2	13786.9	24585.3	33347.5	33618.7	32761.1	26923.0
75°	3665.1	3606.8	3817.8	4327.9	5426.4	9687.9	22105.2	31777.1	32054.1	31108.3	24956.9
77.5°	2652.9	2606.7	2859.8	3255.4	3785.6	4554.8	15538.0	28551.7	28909.2	28136.0	21619.1
80°	1560.4	1626.7	1962.1	2337.6	2759.3	3034.5	7326.2	21330.0	22904.4	22589.1	15761.0
82.5°	297.2	321.4	815.4	1239.1	1520.3	1608.6	2773.4	11732.4	13447.5	13790.9	8326.4
85°	194.8	210.9	488.0	498.0	486.0	622.6	1120.6	5653.3	7259.9	7342.2	3657.1
87.5°	90.4	100.4	148.6	214.8	273.1	327.3	369.5	1518.3	2243.3	2295.4	723.0
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°	4874.1	4874.1	4874.1	4874.1	4874.1	4874.1	4874.1	4874.1	4874.1	4874.1	4874.1
2.5°	4846.0	4825.9	4783.8	4747.6	4723.4	4709.5	4629.1	4615.0	4584.9	4562.8	4552.8
5°	4918.3	4880.1	4777.7	4707.4	4617.0	4542.7	4408.1	4339.9	4299.7	4257.5	4247.5
7.5°	5040.8	4978.6	4817.9	4691.3	4536.7	4402.2	4213.4	4104.9	4028.6	3968.4	3962.3
10°	5213.5	5115.1	4884.1	4699.4	4476.5	4291.7	4056.8	3882.0	3775.6	3697.2	3693.2
12.5°	5428.4	5293.8	5008.7	4763.6	4476.5	4221.4	3942.3	3709.3	3552.7	3446.2	3434.2
15°	5697.5	5536.8	5215.6	4914.2	4574.8	4249.6	3864.0	3550.7	3321.7	3151.0	3142.9
17.5°	6032.8	5866.2	5552.9	5213.5	4761.6	4293.7	3805.7	3363.9	3032.5	2829.6	2807.6
20°	6456.6	6378.3	6057.0	5561.0	4954.4	4315.8	3675.2	3104.8	2654.9	2393.9	2359.8
22.5°	7063.2	7019.0	6559.1	5858.2	5064.8	4247.5	3460.3	2691.1	2144.8	1863.7	1837.5
25°	7822.3	7669.6	7008.9	6079.1	5085.0	4096.9	3096.8	2162.9	1552.4	1273.3	1263.2
27.5°	8613.5	8336.3	7398.5	6233.7	5026.7	3793.6	2586.7	1538.3	968.0	789.2	791.2
30°	9611.6	9085.5	7840.3	6380.3	4892.2	3381.9	1917.9	957.9	608.5	500.1	486.0
32.5°	10762.3	10033.3	8282.2	6438.6	4641.1	2799.5	1217.0	588.5	381.6	325.4	319.3
35°	12106.0	11206.2	8850.5	6444.6	4227.4	2080.6	729.0	345.4	259.0	261.1	265.1
37.5°	13507.7	12449.4	9543.3	6372.2	3711.3	1301.3	411.7	222.9	222.9	265.1	279.2
40°	14776.9	13638.3	10278.4	6209.6	2984.3	757.1	233.0	192.8	204.9	249.1	261.1
42.5°	15941.7	14666.5	10951.2	5956.5	2130.8	409.7	200.9	174.7	184.7	204.9	210.9
45°	16949.9	15560.2	11435.2	5548.9	1293.3	253.0	184.7	158.7	156.7	170.7	174.7
47.5°	17819.5	16359.5	11762.5	4966.5	676.7	241.0	178.7	144.6	134.6	140.5	142.6
50°	18711.2	16951.9	11885.0	4149.1	347.4	226.9	166.7	134.6	124.5	142.6	144.6
52.5°	19612.9	17841.6	11901.1	3006.4	275.2	204.9	152.6	124.5	120.5	158.7	164.7
55°	20490.5	18490.3	11670.1	1741.2	267.1	190.8	138.5	112.5	116.5	120.5	120.5
57.5°	21416.3	19267.5	11184.1	761.1	259.0	174.7	128.6	102.4	86.4	96.3	100.4
60°	22408.4	19938.2	10206.1	439.9	247.1	156.7	110.4	84.4	72.3	72.3	78.3
62.5°	23410.5	20430.2	8605.4	321.4	235.0	146.6	96.3	74.3	60.2	60.2	64.2
65°	24061.2	20102.9	6637.4	285.2	226.9	132.6	84.4	64.2	48.2	46.2	50.2
67.5°	23942.7	18849.7	4675.3	255.0	206.9	120.5	74.3	56.3	42.2	34.1	36.1
70°	22960.7	16801.3	2592.7	239.0	184.7	110.4	66.2	50.2	34.1	22.0	22.0
72.5°	21151.3	14118.2	996.1	214.8	164.7	96.3	60.2	48.2	30.1	12.1	10.1
75°	18450.1	10744.3	359.5	180.7	136.5	88.4	58.2	50.2	28.1	4.0	0.0
77.5°	14465.6	6012.8	212.8	134.6	102.4	76.3	62.2	50.2	16.1	0.0	0.0
80°	7770.0	2171.0	150.6	86.4	68.3	56.3	56.3	40.2	8.1	0.0	0.0
82.5°	3225.3	488.0	96.3	48.2	46.2	36.1	36.1	18.1	2.0	0.0	0.0
85°	913.7	142.6	44.2	26.1	26.1	20.0	10.1	0.0	0.0	0.0	0.0
87.5°	78.3	30.1	12.1	14.1	10.1	4.0	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)