

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: P285818

Luminaire Tested: **USSL-XL-C069-D-U-T3-AP-7050-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P285818
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-C069-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: 40345.1 lumens
Efficiency: N/A
Efficacy: 141.6 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): 285
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

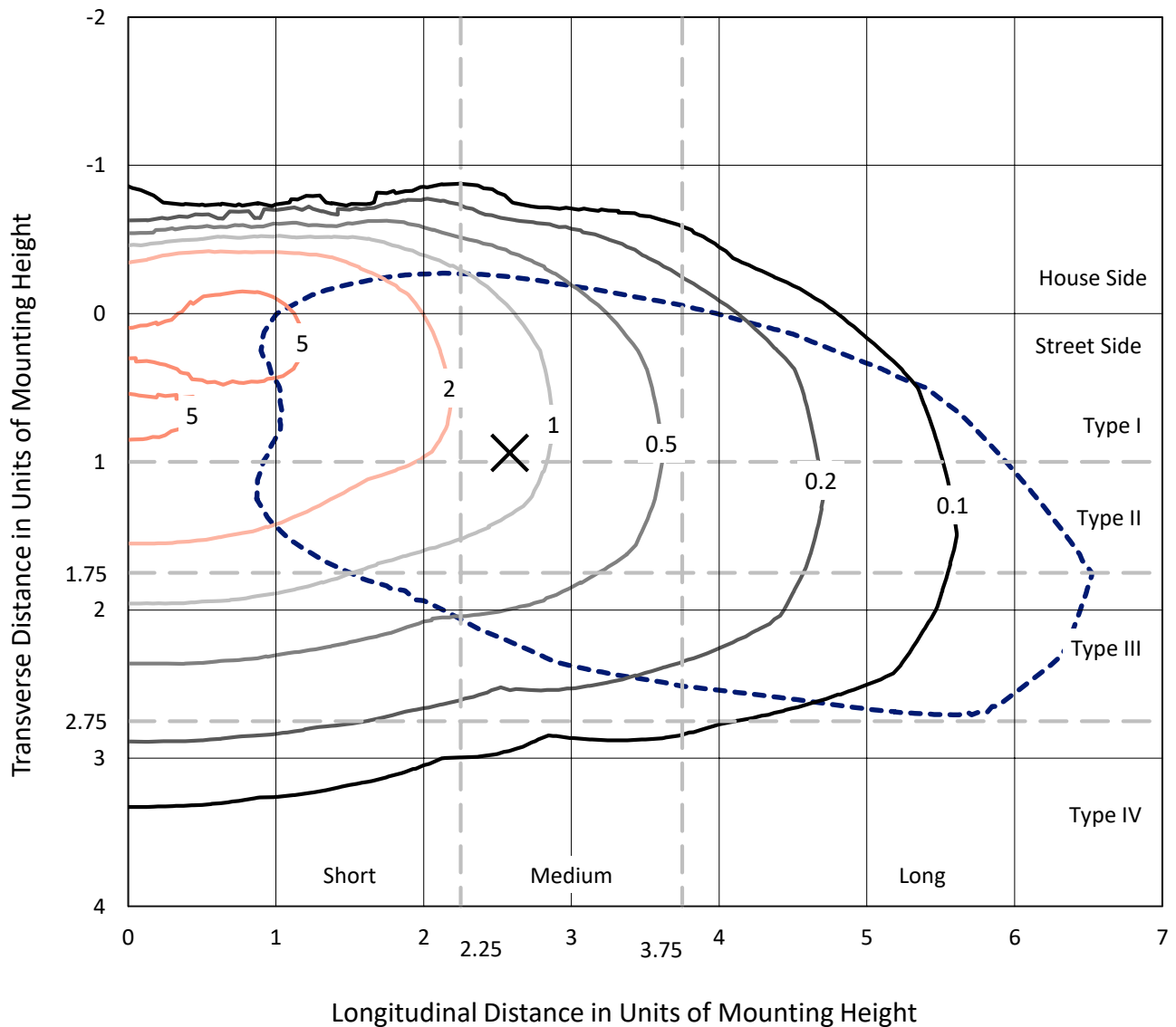


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

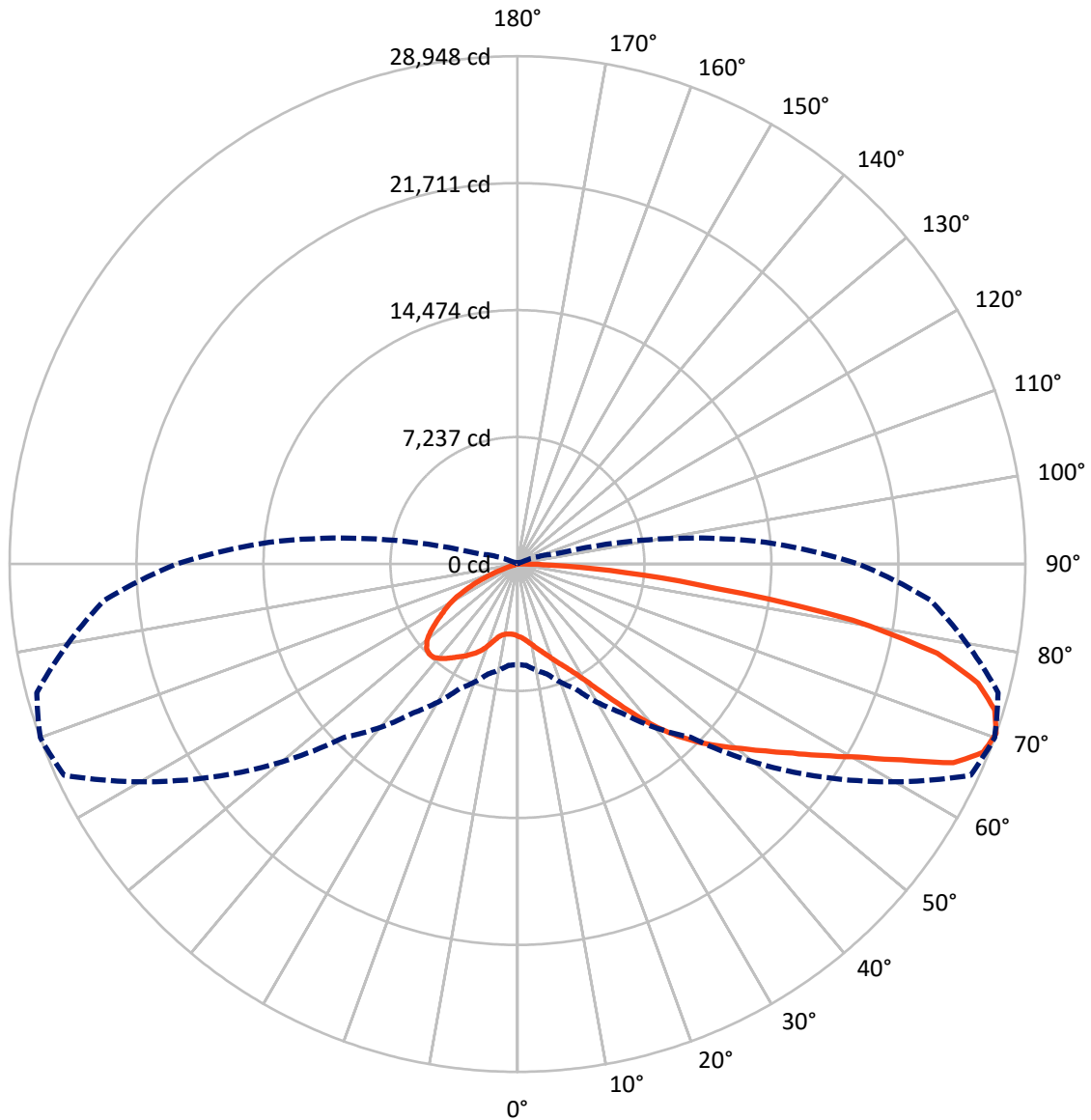


Based on 30 foot mounting height. Maximum calculated value = 6.6 fc
 Type III - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



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



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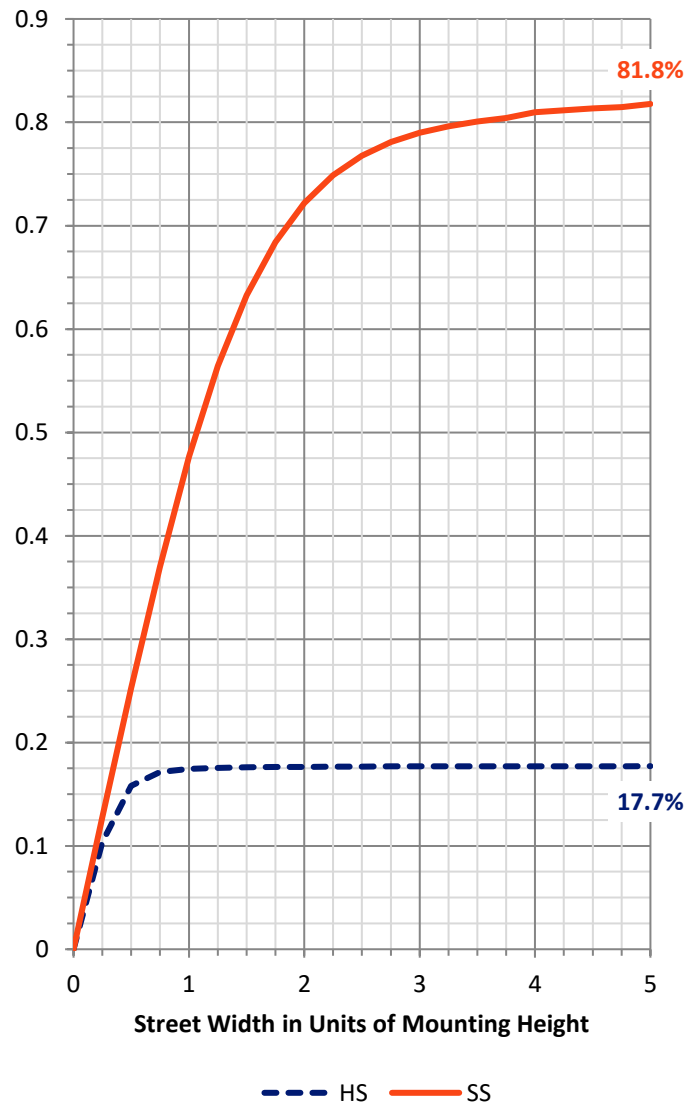
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7229.6	0.0	7229.6
	% Fixture	17.9	0.0	17.9
Street Side	Lumens	33115.5	0.0	33115.5
	% Fixture	82.1	0.0	82.1
Total	Lumens	40345.1	0.0	40345.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	398.6	1.0
10°-20°	1252.7	3.1
20°-30°	2281.0	5.7
30°-40°	3878.0	9.6
40°-50°	6099.9	15.1
50°-60°	8234.2	20.4
60°-70°	9633.2	23.9
70°-80°	7168.1	17.8
80°-90°	1399.3	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°	40345.1	100.0
0°-180°	40345.1	100.0

Coefficient of Utilization



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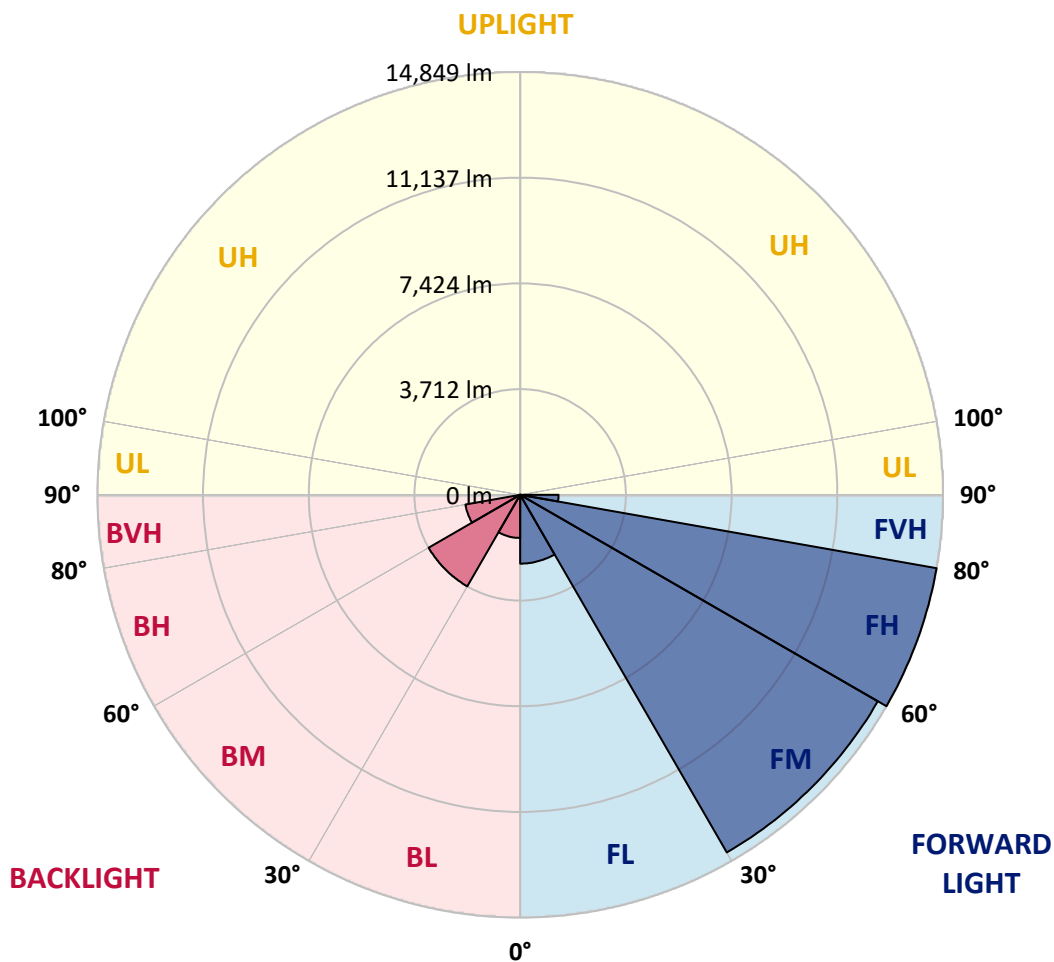
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2416.9	6.0			
FM	(30°-60°)	14501.7	35.9			
FH	(60°-80°)	14848.9	36.8			G5
FVH	(80°-90°)	1348.1	3.3			G5
BL	(0°-30°)	1515.4	3.8	B3/2500		
BM	(30°-60°)	3710.5	9.2	B3/5000		
BH	(60°-80°)	1952.5	4.8	B3/2500		G3/2500
BVH	(80°-90°)	51.3	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°	4123.5	4123.5	4123.5	4123.5	4123.5	4123.5	4123.5	4123.5	4123.5	4123.5	4123.5
2.5°	4354.6	4351.2	4358.0	4340.9	4351.2	4318.9	4289.9	4249.2	4186.4	4164.2	4121.8
5°	4566.9	4570.3	4568.6	4556.7	4541.5	4507.4	4449.7	4393.6	4318.9	4283.2	4200.0
7.5°	4748.8	4750.5	4757.3	4753.9	4745.4	4701.2	4648.5	4577.2	4487.1	4441.2	4327.4
10°	4893.1	4891.4	4901.6	4917.0	4950.9	4917.0	4847.2	4789.5	4692.7	4631.6	4490.5
12.5°	4988.3	4976.4	5005.3	5047.8	5108.9	5114.0	5068.1	5008.7	4923.8	4852.3	4694.4
15°	5032.5	5027.3	5080.0	5168.4	5256.8	5285.6	5278.8	5234.6	5171.8	5100.5	4928.9
17.5°	5136.1	5134.4	5170.1	5273.7	5377.4	5450.4	5525.2	5518.4	5460.6	5409.6	5231.2
20°	5304.3	5307.7	5307.7	5397.8	5511.6	5640.7	5788.5	5834.4	5788.5	5757.9	5586.3
22.5°	5509.9	5494.6	5484.5	5559.2	5698.4	5878.5	6087.5	6172.5	6165.8	6135.1	6031.5
25°	5798.7	5764.7	5691.7	5785.1	5956.7	6167.5	6412.1	6554.7	6566.7	6575.2	6649.9
27.5°	6257.4	6255.7	6131.7	6138.5	6255.7	6500.4	6799.5	7045.8	7079.8	7174.9	7431.5
30°	7181.7	7088.3	6945.5	6717.9	6678.9	6909.9	7266.7	7643.9	7740.7	8031.2	8342.2
32.5°	8046.5	7976.8	7876.6	7613.3	7292.1	7377.1	7783.2	8342.2	8597.0	9176.3	9460.0
35°	8789.0	8753.3	8678.6	8522.2	8231.7	8012.5	8345.5	9118.5	9655.5	10505.0	10753.0
37.5°	9514.4	9487.3	9438.0	9300.4	9118.5	8790.7	8999.6	10034.4	10907.6	11903.2	12030.7
40°	10151.6	10143.0	10185.5	10100.6	10020.7	9816.9	9755.7	11001.1	12215.9	13265.8	13235.3
42.5°	10708.8	10695.2	10902.6	10790.4	10885.6	10807.4	10680.0	11904.9	13401.8	14383.8	14280.1
45°	11080.9	11074.2	11293.3	11405.5	11673.8	11731.6	11655.2	12842.8	14482.4	15408.3	15180.6
47.5°	11364.7	11346.0	11466.6	11898.1	12394.3	12511.5	12659.3	13889.4	15498.4	16313.9	16038.6
50°	11519.3	11526.1	11774.1	12356.8	13090.8	13361.0	13672.0	15133.0	16531.4	17284.0	16828.7
52.5°	11619.5	11692.6	12057.8	12759.6	13762.0	14236.0	14592.8	16477.0	17702.0	18199.8	17713.9
55°	11690.9	11820.0	12185.2	12977.0	14181.7	14966.5	15488.2	17894.0	19034.0	19348.3	18651.7
57.5°	11230.5	11368.1	11983.1	13016.1	14528.3	15583.3	16514.4	19411.2	20591.9	20620.9	19523.4
60°	10477.7	10562.8	11349.4	12776.6	14479.0	16150.8	17773.4	21208.7	22328.4	22313.1	20600.5
62.5°	9699.7	9743.8	10542.4	12144.5	14200.3	16359.8	18972.8	23624.7	24586.4	24132.8	21698.1
65°	8671.8	8721.0	9545.0	11101.3	13425.5	16218.7	19999.0	26157.9	27311.6	26587.8	22760.0
67.5°	7332.9	7426.4	8187.5	9633.4	12164.9	15474.5	20780.6	27894.3	28636.8	28003.1	23504.1
70°	5718.9	5802.1	6481.7	7844.3	10347.0	13957.4	21144.2	28506.0	28947.7	28366.6	23629.8
72.5°	4072.6	4133.7	4434.4	5574.4	7847.7	11663.7	20799.3	28212.0	28441.4	27716.0	22776.9
75°	3100.7	3051.5	3229.8	3661.3	4590.7	8196.0	18701.0	26883.4	27117.9	26317.6	21113.6
77.5°	2244.3	2205.3	2419.4	2754.0	3202.6	3853.4	13145.2	24154.8	24457.2	23803.1	18289.8
80°	1320.1	1376.2	1659.9	1977.7	2334.4	2567.2	6198.0	18045.2	19377.2	19110.4	13333.9
82.5°	251.4	271.9	689.8	1048.2	1286.2	1360.9	2346.3	9925.6	11376.5	11667.1	7044.1
85°	164.8	178.4	412.8	421.3	411.1	526.7	948.1	4782.7	6141.9	6211.5	3093.8
87.5°	76.4	84.9	125.7	181.8	231.1	277.0	312.7	1284.5	1897.8	1941.9	611.7
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°	4123.5	4123.5	4123.5	4123.5	4123.5	4123.5	4123.5	4123.5	4123.5	4123.5	4123.5
2.5°	4099.7	4082.7	4047.0	4016.5	3996.0	3984.2	3916.2	3904.4	3878.8	3860.2	3851.7
5°	4160.8	4128.6	4041.9	3982.5	3906.0	3843.2	3729.4	3671.6	3637.6	3601.9	3593.4
7.5°	4264.5	4211.8	4076.0	3968.9	3838.1	3724.3	3564.5	3472.8	3408.2	3357.2	3352.1
10°	4410.7	4327.4	4132.0	3975.7	3787.1	3630.8	3432.0	3284.2	3194.1	3127.9	3124.5
12.5°	4592.4	4478.6	4237.4	4030.1	3787.1	3571.3	3335.2	3138.0	3005.6	2915.5	2905.3
15°	4820.1	4684.1	4412.4	4157.5	3870.3	3595.1	3268.9	3003.9	2810.1	2665.8	2659.0
17.5°	5103.8	4962.8	4697.8	4410.7	4028.4	3632.5	3219.7	2845.8	2565.5	2393.9	2375.2
20°	5462.3	5396.1	5124.2	4704.6	4191.5	3651.1	3109.2	2626.6	2246.1	2025.3	1996.3
22.5°	5975.4	5938.0	5549.0	4956.0	4284.9	3593.4	2927.4	2276.7	1814.5	1576.7	1554.6
25°	6617.6	6488.5	5929.5	5143.0	4301.9	3466.0	2619.9	1829.8	1313.3	1077.2	1068.7
27.5°	7287.0	7052.6	6259.1	5273.7	4252.6	3209.4	2188.4	1301.5	818.9	667.7	669.4
30°	8131.4	7686.3	6633.0	5397.8	4138.8	2861.1	1622.6	810.4	514.8	423.0	411.1
32.5°	9105.0	8488.2	7006.7	5447.0	3926.4	2368.5	1029.6	497.8	322.8	275.3	270.2
35°	10241.6	9480.5	7487.6	5452.1	3576.4	1760.2	616.8	292.2	219.2	220.9	224.3
37.5°	11427.5	10532.1	8073.7	5391.0	3139.7	1100.9	348.3	188.6	188.6	224.3	236.1
40°	12501.3	11538.0	8695.5	5253.3	2524.7	640.5	197.0	163.1	173.3	210.7	220.9
42.5°	13486.7	12407.8	9264.7	5039.3	1802.7	346.6	169.9	147.9	156.3	173.3	178.4
45°	14339.6	13164.0	9674.1	4694.4	1094.1	214.1	156.3	134.2	132.5	144.5	147.9
47.5°	15075.3	13840.2	9951.1	4201.7	572.6	203.9	151.2	122.3	113.8	118.9	120.6
50°	15829.7	14341.3	10054.7	3510.2	293.9	191.9	141.0	113.8	105.4	120.6	122.3
52.5°	16592.5	15094.0	10068.3	2543.4	232.8	173.3	129.1	105.4	102.0	134.2	139.3
55°	17335.0	15642.7	9873.0	1473.0	226.0	161.4	117.2	95.2	98.6	102.0	102.0
57.5°	18118.2	16300.3	9461.8	643.9	219.2	147.9	108.7	86.7	73.0	81.5	84.9
60°	18957.6	16867.8	8634.4	372.1	209.0	132.5	93.5	71.3	61.2	61.2	66.2
62.5°	19805.4	17284.0	7280.2	271.9	198.7	124.0	81.5	62.9	51.0	51.0	54.4
65°	20355.8	17007.0	5615.2	241.2	191.9	112.1	71.3	54.4	40.8	39.1	42.5
67.5°	20255.5	15946.9	3955.3	215.8	175.0	102.0	62.9	47.6	35.7	28.9	30.6
70°	19424.8	14213.9	2193.5	202.2	156.3	93.5	56.1	42.5	28.9	18.7	18.7
72.5°	17894.0	11944.0	842.7	181.8	139.3	81.5	51.0	40.8	25.4	10.2	8.5
75°	15608.8	9089.7	304.1	152.9	115.5	74.7	49.3	42.5	23.7	3.4	0.0
77.5°	12237.9	5086.9	180.1	113.8	86.7	64.5	52.7	42.5	13.6	0.0	0.0
80°	6573.5	1836.6	127.4	73.0	57.8	47.6	47.6	34.0	6.8	0.0	0.0
82.5°	2728.6	412.8	81.5	40.8	39.1	30.6	30.6	15.3	1.7	0.0	0.0
85°	773.1	120.6	37.4	22.0	22.0	17.0	8.5	0.0	0.0	0.0	0.0
87.5°	66.2	25.4	10.2	11.9	8.5	3.4	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)