

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: P285814

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P285814
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-HSS
Description: PREVAIL XL AREA AND ROADWAY LUMINAIRE
(6) 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: 46839.1 lumens
Efficiency: N/A
Efficacy: 135.4 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

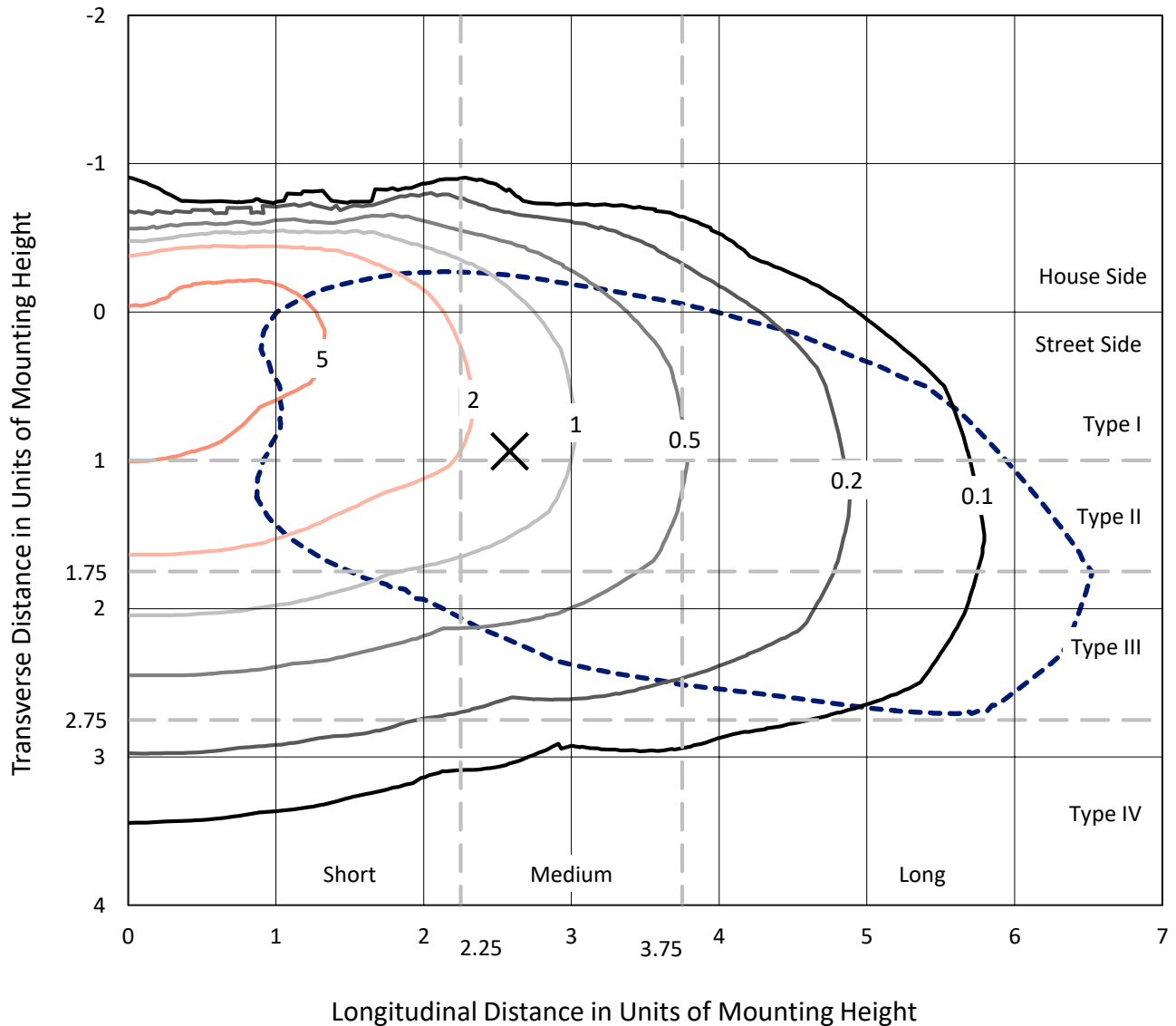
Input Watts (W): 346
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

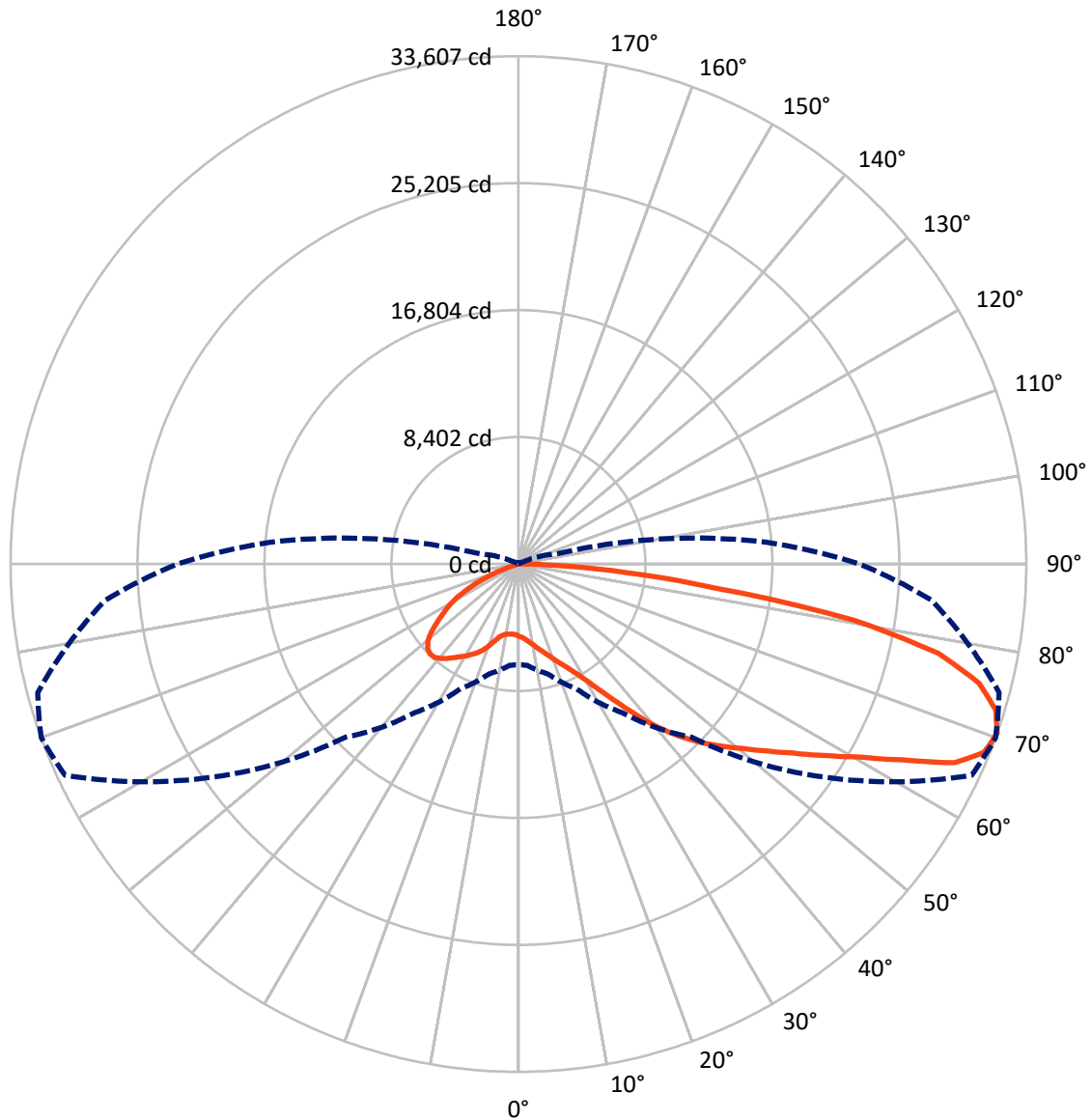
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 7.7 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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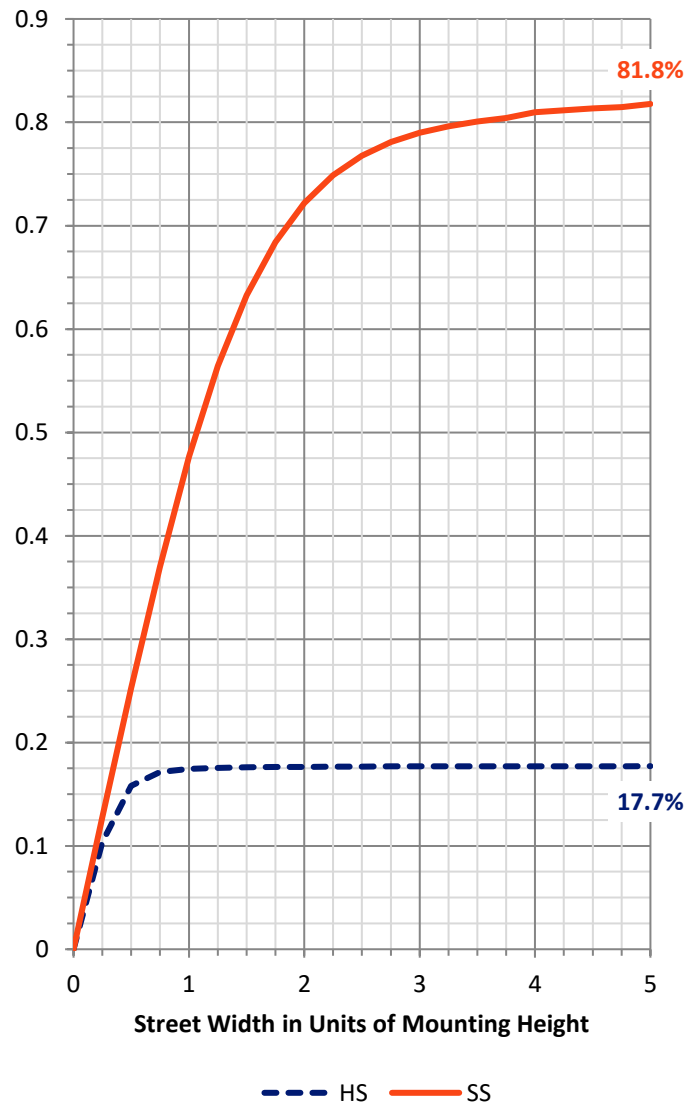
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8393.3	0.0	8393.3
	% Fixture	17.9	0.0	17.9
Street Side	Lumens	38445.9	0.0	38445.9
	% Fixture	82.1	0.0	82.1
Total	Lumens	46839.1	0.0	46839.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	462.7	1.0
10°-20°	1454.3	3.1
20°-30°	2648.2	5.7
30°-40°	4502.2	9.6
40°-50°	7081.8	15.1
50°-60°	9559.6	20.4
60°-70°	11183.8	23.9
70°-80°	8321.9	17.8
80°-90°	1624.6	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°	46839.1	100.0
0°-180°	46839.1	100.0

Coefficient of Utilization



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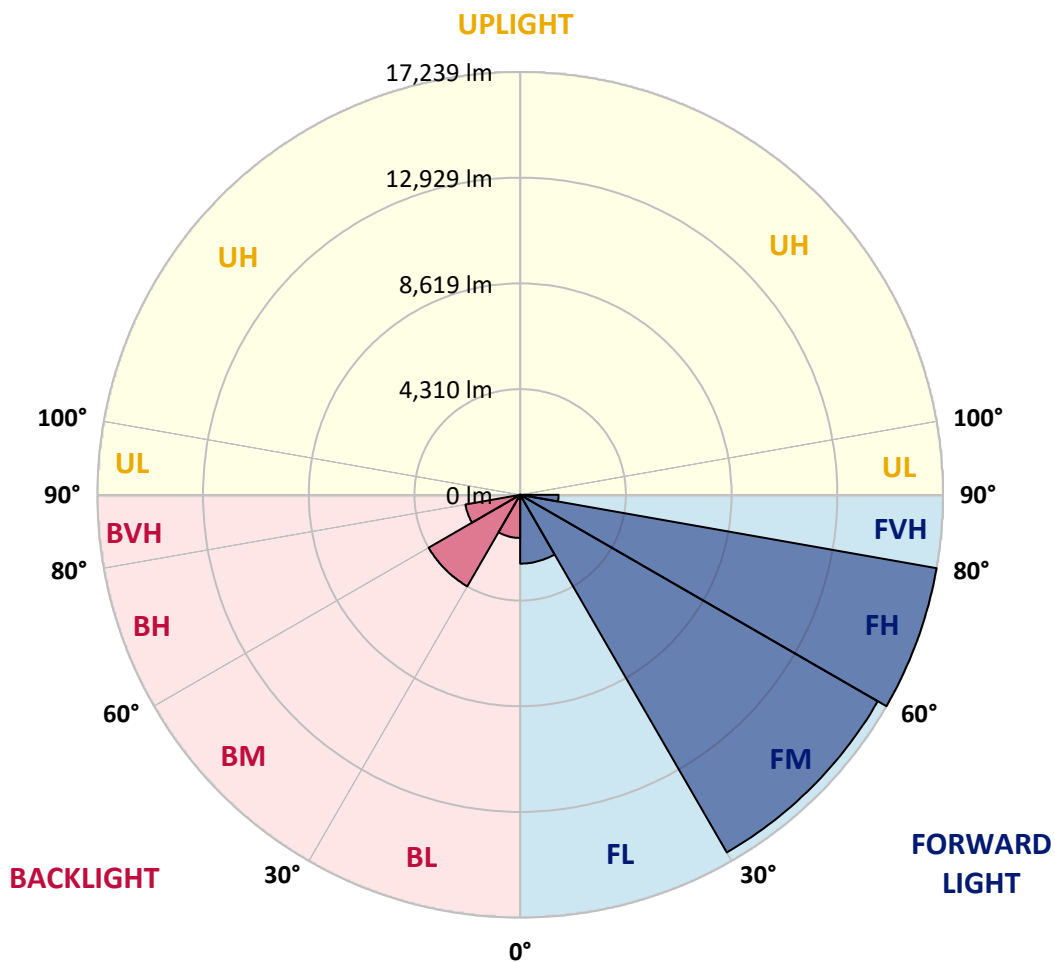
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2805.9	6.0			
FM	(30°-60°)	16835.9	35.9			
FH	(60°-80°)	17239.0	36.8			G5
FVH	(80°-90°)	1565.1	3.3			G5
BL	(0°-30°)	1759.3	3.8	B3/2500		
BM	(30°-60°)	4307.7	9.2	B3/5000		
BH	(60°-80°)	2266.7	4.8	B3/2500		G3/2500
BVH	(80°-90°)	59.5	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°	4787.3	4787.3	4787.3	4787.3	4787.3	4787.3	4787.3	4787.3	4787.3	4787.3	4787.3
2.5°	5055.5	5051.5	5059.4	5039.7	5051.5	5014.1	4980.5	4933.2	4860.2	4834.5	4785.2
5°	5302.0	5306.0	5304.1	5290.2	5272.5	5233.0	5166.0	5100.9	5014.1	4972.6	4876.0
7.5°	5513.1	5515.1	5522.9	5519.0	5509.1	5457.8	5396.7	5313.9	5209.3	5156.1	5023.9
10°	5680.7	5678.7	5690.6	5708.4	5747.8	5708.4	5627.5	5560.4	5448.0	5377.0	5213.2
12.5°	5791.2	5777.4	5810.9	5860.3	5931.3	5937.1	5883.9	5814.9	5716.3	5633.4	5450.0
15°	5842.5	5836.6	5897.7	6000.3	6102.9	6136.4	6128.6	6077.3	6004.2	5921.4	5722.2
17.5°	5962.8	5960.9	6002.3	6122.6	6242.9	6327.7	6414.5	6406.7	6339.6	6280.4	6073.2
20°	6158.1	6162.0	6162.0	6266.6	6398.7	6548.7	6720.3	6773.5	6720.3	6684.8	6485.5
22.5°	6396.8	6379.0	6367.1	6453.9	6615.7	6824.8	7067.4	7166.0	7158.1	7122.6	7002.3
25°	6732.1	6692.6	6607.8	6716.3	6915.5	7160.2	7444.1	7609.9	7623.6	7633.5	7720.3
27.5°	7264.7	7262.6	7118.7	7126.6	7262.6	7546.7	7893.9	8179.9	8219.3	8329.8	8627.7
30°	8337.7	8229.2	8063.5	7799.2	7753.8	8022.1	8436.3	8874.2	8986.7	9323.9	9684.9
32.5°	9341.6	9260.8	9144.4	8838.7	8466.0	8564.5	9036.0	9684.9	9980.8	10653.4	10982.8
35°	10203.7	10162.2	10075.4	9894.0	9556.7	9302.2	9688.9	10586.3	11209.6	12195.8	12483.8
37.5°	11046.0	11014.4	10957.1	10797.4	10586.3	10205.7	10448.3	11649.5	12663.4	13819.2	13967.2
40°	11785.6	11775.7	11825.1	11726.4	11633.7	11397.0	11326.0	12771.8	14182.2	15401.2	15365.7
42.5°	12432.5	12416.8	12657.4	12527.3	12637.7	12547.0	12399.0	13821.2	15558.9	16699.0	16578.7
45°	12864.5	12856.7	13111.1	13241.3	13552.9	13620.0	13531.2	14910.0	16813.4	17888.5	17624.1
47.5°	13194.0	13172.2	13312.3	13813.3	14389.3	14525.4	14697.0	16125.1	17993.0	18939.8	18620.2
50°	13373.4	13381.3	13669.3	14345.9	15198.0	15511.6	15872.5	17568.9	19192.2	20066.0	19537.5
52.5°	13489.8	13574.7	13998.7	14813.4	15977.1	16527.4	16941.7	19129.2	20551.4	21129.2	20565.1
55°	13572.7	13722.5	14146.7	15065.8	16464.3	17375.6	17981.2	20774.3	22097.7	22462.7	21654.0
57.5°	13038.1	13197.9	13911.9	15111.2	16866.7	18091.6	19172.5	22535.6	23906.5	23940.1	22665.9
60°	12164.3	12262.9	13176.1	14833.1	16809.5	18750.5	20634.1	24622.5	25922.4	25904.6	23916.3
62.5°	11260.9	11312.2	12239.3	14099.3	16486.0	18993.1	22026.7	27427.4	28543.8	28017.2	25190.6
65°	10067.6	10124.8	11081.5	12888.2	15586.6	18829.3	23218.1	30368.4	31707.7	30867.4	26423.4
67.5°	8513.2	8621.8	9505.4	11184.0	14123.0	17965.4	24125.4	32384.3	33246.2	32510.5	27287.3
70°	6639.4	6736.0	7525.1	9107.0	12012.4	16204.0	24547.6	33094.3	33607.2	32932.6	27433.3
72.5°	4728.0	4799.0	5148.1	6471.7	9110.9	13541.1	24147.2	32753.1	33019.4	32177.1	26443.1
75°	3599.7	3542.6	3749.7	4250.7	5329.6	9515.3	21711.1	31210.7	31482.8	30553.7	24512.1
77.5°	2605.7	2560.3	2808.8	3197.4	3718.1	4473.6	15261.1	28042.8	28393.9	27634.5	21233.8
80°	1532.6	1597.7	1927.1	2296.0	2710.2	2980.4	7195.7	20949.8	22496.2	22186.5	15480.1
82.5°	291.9	315.6	800.9	1217.0	1493.2	1580.0	2724.0	11523.2	13207.7	13545.1	8177.9
85°	191.3	207.1	479.3	489.1	477.4	611.5	1100.6	5552.5	7130.5	7211.5	3591.9
87.5°	88.7	98.7	145.9	211.0	268.3	321.5	362.9	1491.2	2203.2	2254.5	710.1
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°	4787.3	4787.3	4787.3	4787.3	4787.3	4787.3	4787.3	4787.3	4787.3	4787.3	4787.3
2.5°	4759.6	4739.9	4698.4	4662.9	4639.3	4625.5	4546.5	4532.8	4503.2	4481.5	4471.6
5°	4830.6	4793.2	4692.5	4623.5	4534.8	4461.8	4329.6	4262.5	4223.1	4181.6	4171.8
7.5°	4950.9	4889.7	4732.0	4607.7	4455.8	4323.7	4138.3	4031.8	3956.8	3897.7	3891.7
10°	5120.6	5023.9	4797.1	4615.7	4396.7	4215.2	3984.4	3812.8	3708.3	3631.3	3627.4
12.5°	5331.6	5199.4	4919.4	4678.7	4396.7	4146.1	3872.0	3643.2	3489.3	3384.8	3372.9
15°	5596.0	5438.1	5122.5	4826.7	4493.3	4173.8	3795.1	3487.4	3262.5	3094.8	3087.0
17.5°	5925.4	5761.6	5453.9	5120.6	4676.8	4217.1	3737.8	3303.9	2978.4	2779.3	2757.5
20°	6341.5	6264.6	5949.0	5461.8	4866.1	4238.9	3609.6	3049.4	2607.7	2351.2	2317.7
22.5°	6937.3	6893.8	6442.2	5753.8	4974.6	4171.8	3398.6	2643.2	2106.7	1830.4	1804.8
25°	7682.8	7532.9	6883.9	5970.7	4994.4	4023.9	3041.6	2124.4	1524.8	1250.6	1240.7
27.5°	8460.0	8187.8	7266.7	6122.6	4937.1	3726.0	2540.6	1510.9	950.7	775.2	777.1
30°	9440.3	8923.5	7700.6	6266.6	4805.0	3321.6	1883.8	940.9	597.7	491.2	477.4
32.5°	10570.5	9854.5	8134.5	6323.8	4558.4	2749.6	1195.4	578.0	374.8	319.6	313.6
35°	11890.2	11006.4	8692.8	6329.7	4152.1	2043.5	716.0	339.3	254.5	256.4	260.4
37.5°	13266.9	12227.4	9373.2	6258.7	3645.1	1278.1	404.4	219.0	219.0	260.4	274.2
40°	14513.5	13395.1	10095.1	6098.9	2931.2	743.6	228.8	189.4	201.2	244.6	256.4
42.5°	15657.6	14405.1	10756.0	5850.4	2092.8	402.3	197.2	171.6	181.5	201.2	207.1
45°	16647.7	15282.8	11231.3	5450.0	1270.3	248.5	181.5	155.8	153.9	167.7	171.6
47.5°	17501.8	16067.9	11552.8	4878.0	664.8	236.7	175.5	142.0	132.2	138.1	140.0
50°	18377.6	16649.8	11673.2	4075.1	341.3	222.9	163.8	132.2	122.3	140.0	142.0
52.5°	19263.3	17523.5	11688.9	2952.8	270.3	201.2	149.9	122.3	118.4	155.8	161.7
55°	20125.3	18160.6	11462.1	1710.1	262.3	187.4	136.1	110.4	114.4	118.4	118.4
57.5°	21034.6	18924.0	10984.8	747.5	254.5	171.6	126.2	100.6	84.8	94.6	98.7
60°	22008.9	19582.8	10024.2	432.0	242.6	153.9	108.5	82.9	71.0	71.0	76.9
62.5°	22993.3	20066.0	8452.1	315.6	230.7	144.0	94.6	73.0	59.1	59.1	63.2
65°	23632.4	19744.6	6519.0	280.1	222.9	130.2	82.9	63.2	47.4	45.4	49.3
67.5°	23516.0	18513.7	4591.9	250.5	203.2	118.4	73.0	55.2	41.4	33.5	35.5
70°	22551.4	16501.8	2546.5	234.8	181.5	108.5	65.1	49.3	33.5	21.7	21.7
72.5°	20774.3	13866.6	978.4	211.0	161.7	94.6	59.1	47.4	29.6	11.9	9.9
75°	18121.2	10552.8	353.1	177.5	134.1	86.8	57.2	49.3	27.7	3.9	0.0
77.5°	14207.9	5905.7	209.1	132.2	100.6	74.9	61.2	49.3	15.8	0.0	0.0
80°	7631.5	2132.3	148.0	84.8	67.1	55.2	55.2	39.4	7.8	0.0	0.0
82.5°	3167.8	479.3	94.6	47.4	45.4	35.5	35.5	17.7	2.0	0.0	0.0
85°	897.5	140.0	43.3	25.6	25.6	19.7	9.9	0.0	0.0	0.0	0.0
87.5°	76.9	29.6	11.9	13.8	9.9	3.9	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)