

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: P285809

Luminaire Tested: **USSL-XL-C06-D-U-T3-AP-7030-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P285809
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-7030-HSS
Description: PREVAIL XL AREA AND ROADWAY LUMINAIRE
(6) 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: 45988 lumens
Efficiency: N/A
Efficacy: 132.9 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

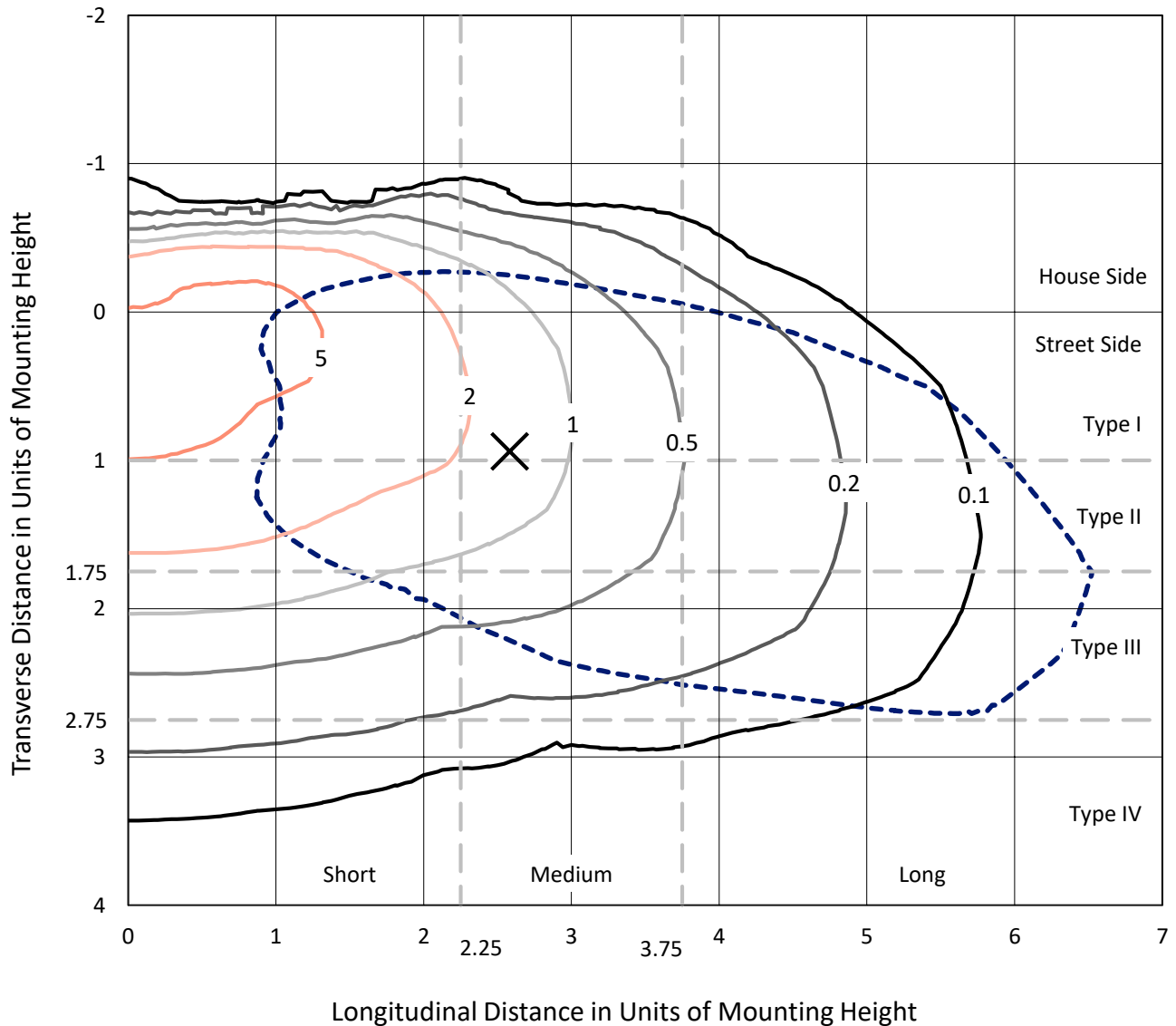


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

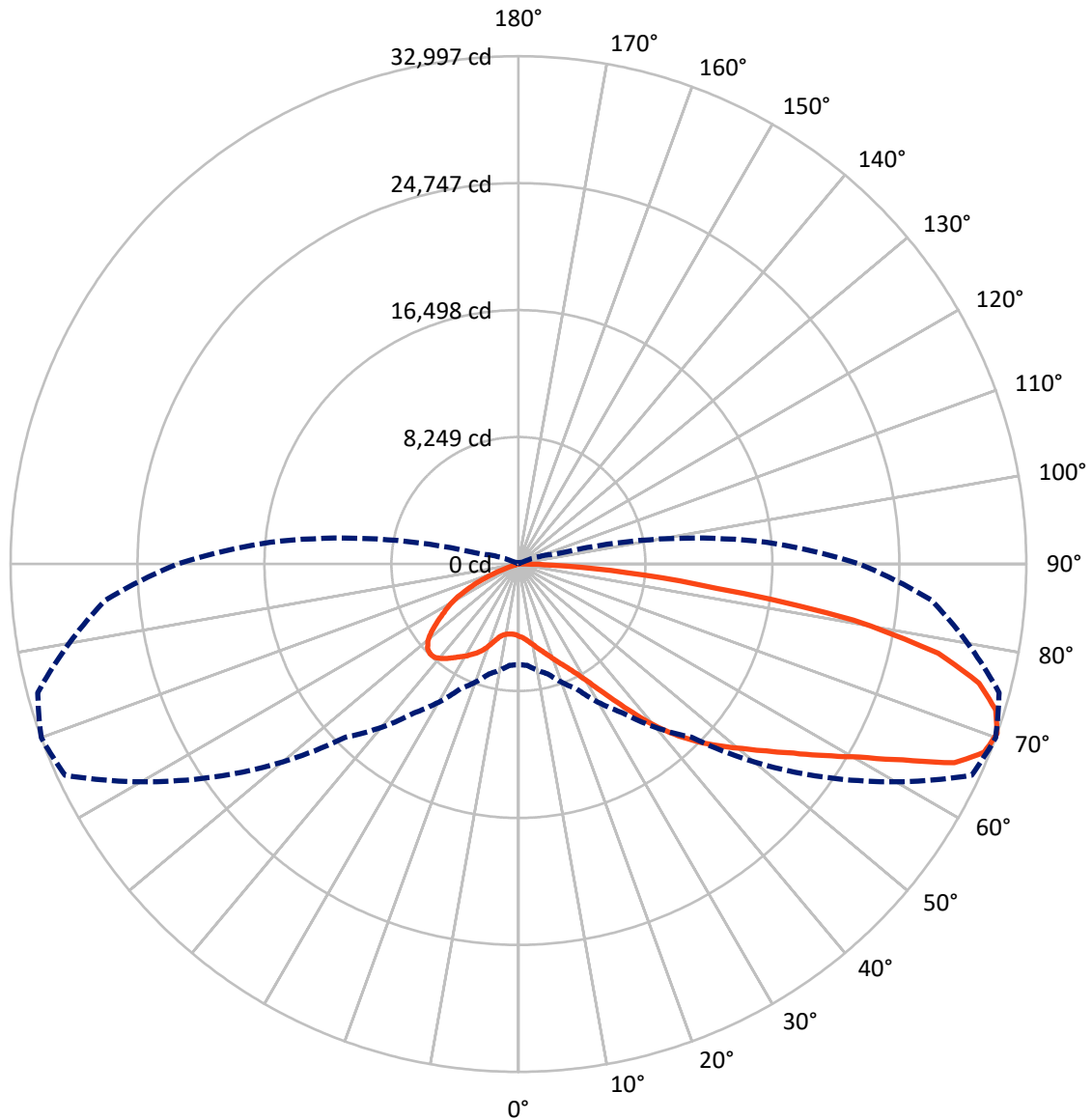


Based on 30 foot mounting height. Maximum calculated value = 7.6 fc
 Type III - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



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



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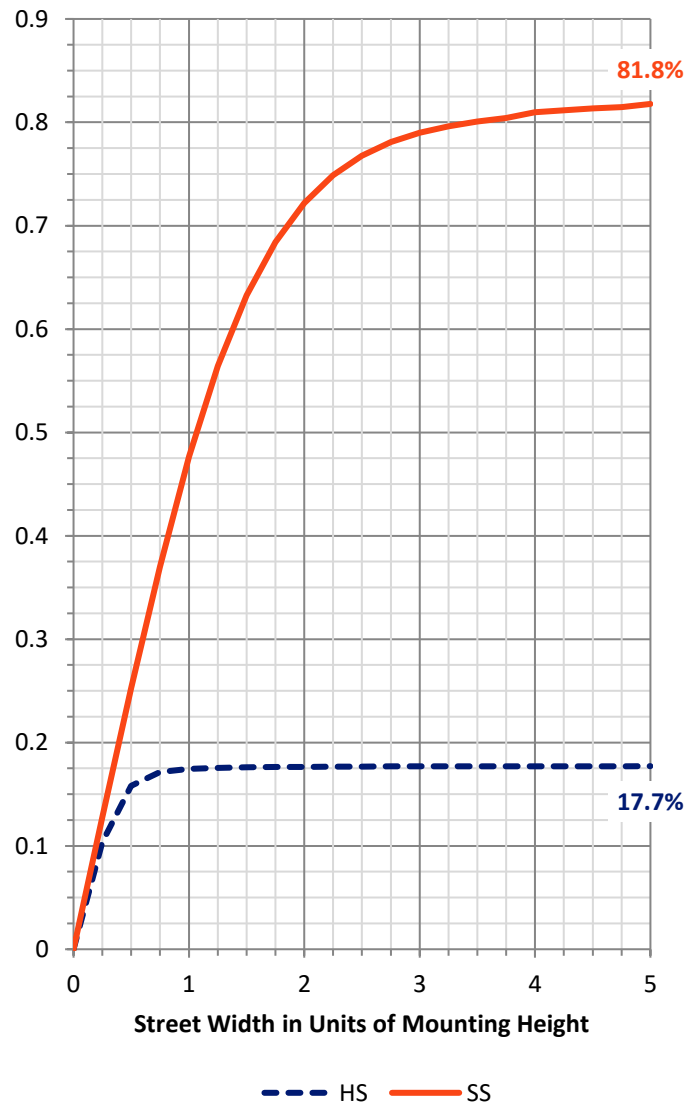
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8240.7	0.0	8240.7
	% Fixture	17.9	0.0	17.9
Street Side	Lumens	37747.3	0.0	37747.3
	% Fixture	82.1	0.0	82.1
Total	Lumens	45988.0	0.0	45988.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	454.3	1.0
10°-20°	1427.9	3.1
20°-30°	2600.1	5.7
30°-40°	4420.4	9.6
40°-50°	6953.1	15.1
50°-60°	9385.9	20.4
60°-70°	10980.6	23.9
70°-80°	8170.7	17.8
80°-90°	1595.1	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°	45988.0	100.0
0°-180°	45988.0	100.0

Coefficient of Utilization



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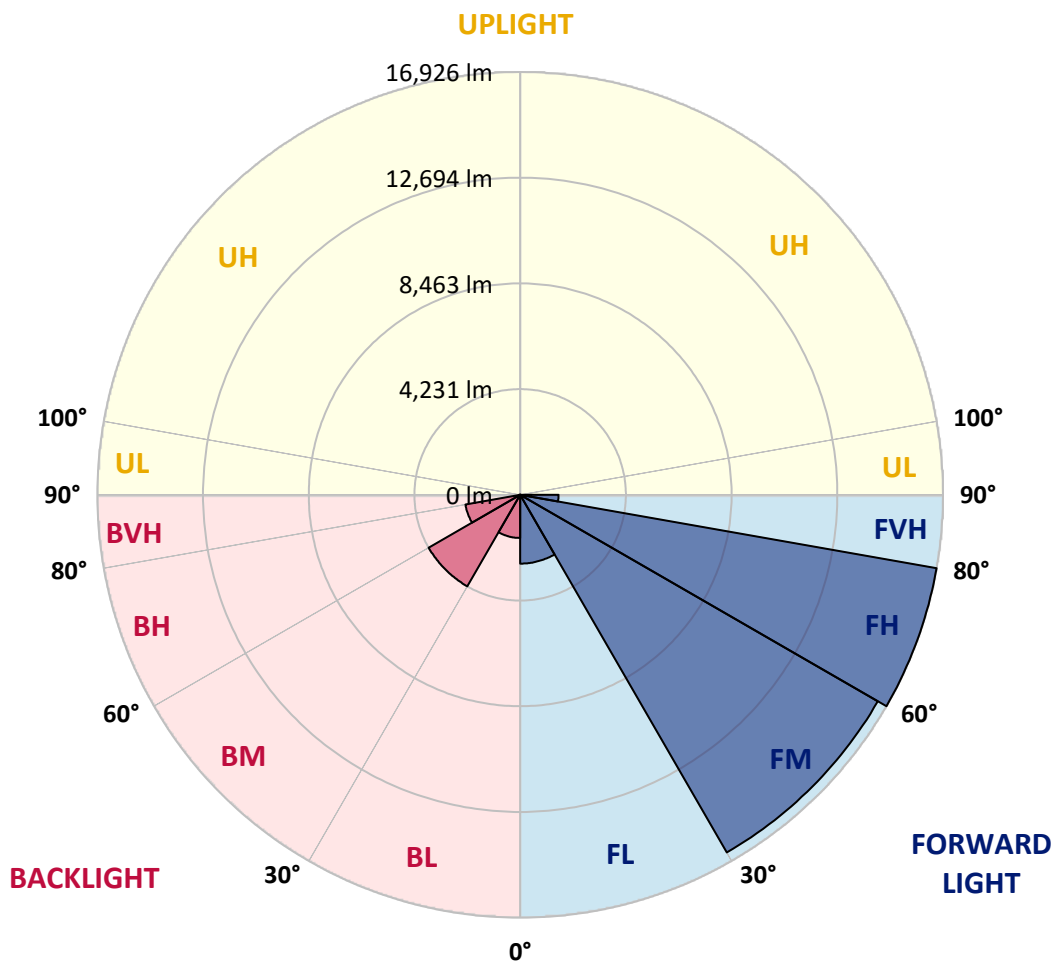
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2754.9	6.0			
FM	(30°-60°)	16530.0	35.9			
FH	(60°-80°)	16925.7	36.8			G5
FVH	(80°-90°)	1536.6	3.3			G5
BL	(0°-30°)	1727.3	3.8	B3/2500		
BM	(30°-60°)	4229.4	9.2	B3/5000		
BH	(60°-80°)	2225.5	4.8	B3/2500		G3/2500
BVH	(80°-90°)	58.5	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°	4700.2	4700.2	4700.2	4700.2	4700.2	4700.2	4700.2	4700.2	4700.2	4700.2	4700.2
2.5°	4963.6	4959.7	4967.5	4948.1	4959.7	4922.9	4890.1	4843.5	4771.9	4746.8	4698.3
5°	5205.7	5209.6	5207.6	5194.0	5176.7	5137.9	5072.0	5008.1	4922.9	4882.3	4787.4
7.5°	5412.9	5414.8	5422.6	5418.7	5409.1	5358.6	5298.7	5217.4	5114.7	5062.4	4932.7
10°	5577.5	5575.6	5587.3	5604.6	5643.3	5604.6	5525.3	5459.4	5349.0	5279.3	5118.6
12.5°	5685.9	5672.5	5705.3	5753.8	5823.5	5829.3	5777.0	5709.3	5612.4	5531.1	5350.9
15°	5736.3	5730.6	5790.6	5891.2	5991.9	6024.9	6017.2	5966.8	5895.2	5813.8	5618.2
17.5°	5854.5	5852.6	5893.3	6011.3	6129.5	6212.7	6297.9	6290.2	6224.4	6166.3	5962.9
20°	6046.2	6050.1	6050.1	6152.7	6282.5	6429.7	6598.1	6650.4	6598.1	6563.3	6367.7
22.5°	6280.5	6263.1	6251.5	6336.7	6495.5	6700.8	6939.0	7035.8	7028.1	6993.2	6875.0
25°	6609.7	6571.1	6487.8	6594.3	6789.8	7030.0	7308.9	7471.6	7485.1	7494.8	7580.0
27.5°	7132.7	7130.7	6989.3	6997.1	7130.7	7409.5	7750.4	8031.3	8070.0	8178.4	8470.8
30°	8186.1	8079.7	7917.0	7657.5	7612.9	7876.3	8283.0	8712.9	8823.3	9154.5	9508.9
32.5°	9172.0	9092.6	8978.3	8678.1	8312.1	8408.9	8871.8	9508.9	9799.4	10459.8	10783.2
35°	10018.3	9977.6	9892.4	9714.2	9383.1	9133.2	9512.8	10393.9	11005.9	11974.2	12257.0
37.5°	10845.2	10814.2	10758.1	10601.2	10393.9	10020.2	10258.3	11437.8	12433.3	13568.1	13713.4
40°	11571.5	11561.7	11610.1	11513.4	11422.3	11189.9	11120.2	12539.8	13924.4	15121.3	15086.4
42.5°	12206.7	12191.2	12427.4	12299.6	12408.0	12319.0	12173.7	13570.0	15276.2	16395.6	16277.5
45°	12630.8	12623.0	12872.9	13000.7	13306.6	13372.5	13285.3	14639.1	16507.9	17563.4	17303.9
47.5°	12954.2	12932.9	13070.4	13562.3	14127.8	14261.5	14429.9	15832.0	17666.1	18595.6	18281.9
50°	13130.5	13138.2	13421.0	14085.2	14921.8	15229.8	15584.1	17249.7	18843.5	19701.4	19182.5
52.5°	13244.7	13327.9	13744.4	14544.2	15686.8	16227.2	16633.9	18781.5	20177.8	20745.3	20191.4
55°	13326.0	13473.2	13889.6	14792.1	16165.2	17059.8	17654.4	20396.7	21696.2	22054.5	21260.4
57.5°	12801.2	12958.1	13659.1	14836.6	16560.2	17762.9	18824.1	22126.2	23472.1	23505.0	22254.0
60°	11943.3	12040.1	12936.8	14563.6	16504.0	18409.7	20259.2	24175.2	25451.4	25433.9	23481.8
62.5°	11056.2	11106.7	12016.8	13843.1	16186.5	18647.9	21626.5	26929.0	28025.1	27508.1	24732.9
65°	9884.6	9940.8	10880.1	12654.0	15303.4	18487.2	22796.2	29816.6	31131.5	30306.6	25943.3
67.5°	8358.6	8465.1	9332.6	10980.8	13866.4	17639.0	23687.1	31795.8	32642.1	31919.7	26791.5
70°	6518.7	6613.7	7388.2	8941.5	11794.1	15909.5	24101.5	32493.0	32996.5	32334.2	26934.8
72.5°	4642.2	4711.9	5054.7	6354.1	8945.3	13295.1	23708.4	32157.9	32419.4	31592.4	25962.7
75°	3534.3	3478.2	3681.6	4173.5	5232.8	9342.4	21316.6	30643.5	30910.7	29998.6	24066.6
77.5°	2558.3	2513.8	2757.8	3139.3	3650.6	4392.3	14983.8	27533.2	27878.0	27132.4	20847.9
80°	1504.7	1568.7	1892.1	2254.3	2661.0	2926.3	7064.9	20569.1	22087.4	21783.4	15198.8
82.5°	286.6	309.9	786.2	1194.9	1466.1	1551.3	2674.6	11313.9	12967.8	13298.9	8029.3
85°	187.8	203.4	470.6	480.2	468.7	600.3	1080.7	5451.7	7001.0	7080.3	3526.6
87.5°	87.1	96.9	143.3	207.2	263.4	315.6	356.3	1464.1	2163.3	2213.6	697.2
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°	4700.2	4700.2	4700.2	4700.2	4700.2	4700.2	4700.2	4700.2	4700.2	4700.2	4700.2
2.5°	4673.1	4653.7	4613.1	4578.2	4555.0	4541.5	4464.0	4450.4	4421.4	4400.1	4390.3
5°	4742.8	4706.1	4607.3	4539.4	4452.3	4380.7	4250.9	4185.1	4146.3	4105.7	4096.0
7.5°	4861.0	4800.9	4646.0	4524.0	4374.8	4245.1	4063.1	3958.5	3885.0	3826.8	3821.0
10°	5027.5	4932.7	4709.9	4531.7	4316.8	4138.6	3912.0	3743.6	3640.9	3565.4	3561.5
12.5°	5234.7	5105.0	4830.0	4593.7	4316.8	4070.9	3801.6	3577.0	3425.9	3323.3	3311.7
15°	5494.2	5339.4	5029.4	4738.9	4411.6	4097.9	3726.1	3424.0	3203.2	3038.6	3030.9
17.5°	5817.7	5656.9	5354.8	5027.5	4591.8	4140.5	3669.9	3243.8	2924.4	2728.7	2707.4
20°	6226.3	6150.8	5840.9	5362.6	4777.7	4161.8	3544.1	2994.0	2560.2	2308.5	2275.6
22.5°	6811.1	6768.5	6325.1	5649.2	4884.2	4096.0	3336.9	2595.1	2068.3	1797.2	1772.0
25°	7543.2	7396.1	6758.9	5862.2	4903.6	3950.8	2986.3	2085.8	1497.0	1227.8	1218.1
27.5°	8306.2	8039.0	7134.6	6011.3	4847.5	3658.4	2494.4	1483.4	933.5	761.1	763.0
30°	9268.7	8761.3	7560.7	6152.7	4717.6	3261.3	1849.5	923.8	586.8	482.3	468.7
32.5°	10378.4	9675.5	7986.7	6208.9	4475.5	2699.7	1173.6	567.5	368.0	313.7	307.9
35°	11674.1	10806.4	8534.7	6214.7	4076.6	2006.4	703.0	333.1	249.8	251.7	255.6
37.5°	13025.9	12005.3	9202.9	6145.0	3579.0	1254.9	397.0	214.9	214.9	255.6	269.2
40°	14249.8	13151.8	9911.8	5988.1	2877.8	730.2	224.7	185.9	197.6	240.2	251.7
42.5°	15373.1	14143.3	10560.5	5744.1	2054.8	395.0	193.6	168.5	178.2	197.6	203.4
45°	16345.2	15005.1	11027.2	5350.9	1247.2	244.0	178.2	152.9	151.0	164.6	168.5
47.5°	17183.8	15775.9	11342.9	4789.3	652.7	232.4	172.3	139.5	129.7	135.6	137.5
50°	18043.7	16347.2	11461.0	4001.1	335.0	218.9	160.8	129.7	120.1	137.5	139.5
52.5°	18913.3	17205.1	11476.5	2899.1	265.3	197.6	147.2	120.1	116.2	152.9	158.8
55°	19759.6	17830.7	11253.8	1679.1	257.6	184.0	133.7	108.4	112.3	116.2	116.2
57.5°	20652.4	18580.2	10785.1	734.0	249.8	168.5	123.9	98.8	83.3	93.0	96.9
60°	21609.0	19227.0	9842.0	424.2	238.2	151.0	106.5	81.3	69.7	69.7	75.6
62.5°	22575.4	19701.4	8298.5	309.9	226.6	141.4	93.0	71.6	58.1	58.1	62.0
65°	23202.9	19385.8	6400.6	275.0	218.9	127.8	81.3	62.0	46.5	44.5	48.4
67.5°	23088.6	18177.3	4508.5	246.0	199.5	116.2	71.6	54.3	40.7	33.0	34.9
70°	22141.6	16201.9	2500.2	230.4	178.2	106.5	63.9	48.4	33.0	21.3	21.3
72.5°	20396.7	13614.6	960.6	207.2	158.8	93.0	58.1	46.5	29.0	11.7	9.6
75°	17791.9	10361.1	346.7	174.2	131.6	85.2	56.2	48.4	27.1	3.9	0.0
77.5°	13949.7	5798.3	205.3	129.7	98.8	73.6	60.0	48.4	15.5	0.0	0.0
80°	7492.9	2093.5	145.2	83.3	65.8	54.3	54.3	38.7	7.7	0.0	0.0
82.5°	3110.3	470.6	93.0	46.5	44.5	34.9	34.9	17.4	1.9	0.0	0.0
85°	881.2	137.5	42.6	25.2	25.2	19.4	9.6	0.0	0.0	0.0	0.0
87.5°	75.6	29.0	11.7	13.6	9.6	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)