

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: P636584

Luminaire Tested: **IFLD-L-SA7B-927-U-66-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P636584
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7B-927-U-66-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 6 distribution lens and Visor
Light Source: (112) 2700K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17951.3 lumens
Efficiency: N/A
Efficacy: 63.9 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G1

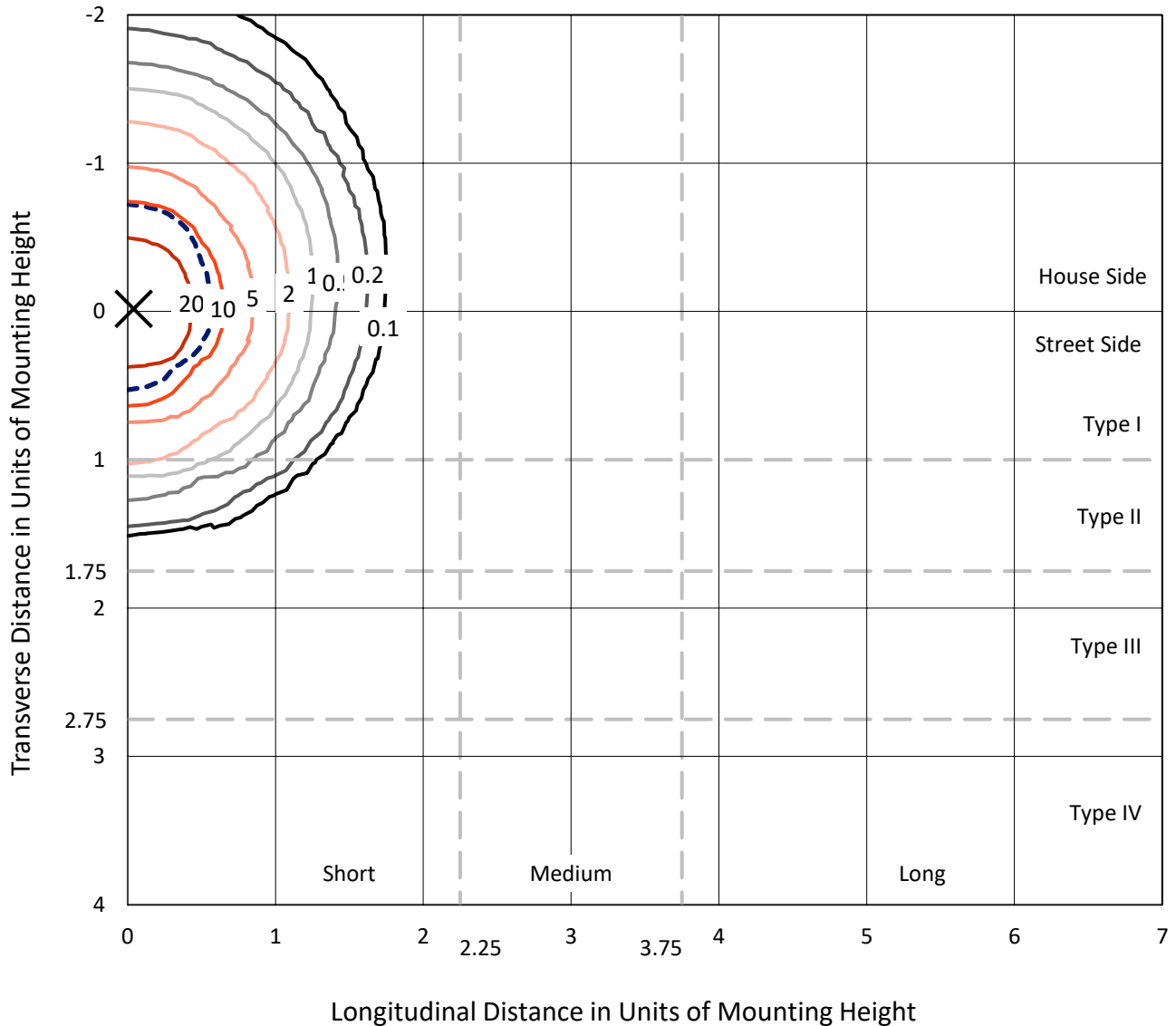
Input Watts (W): 281
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

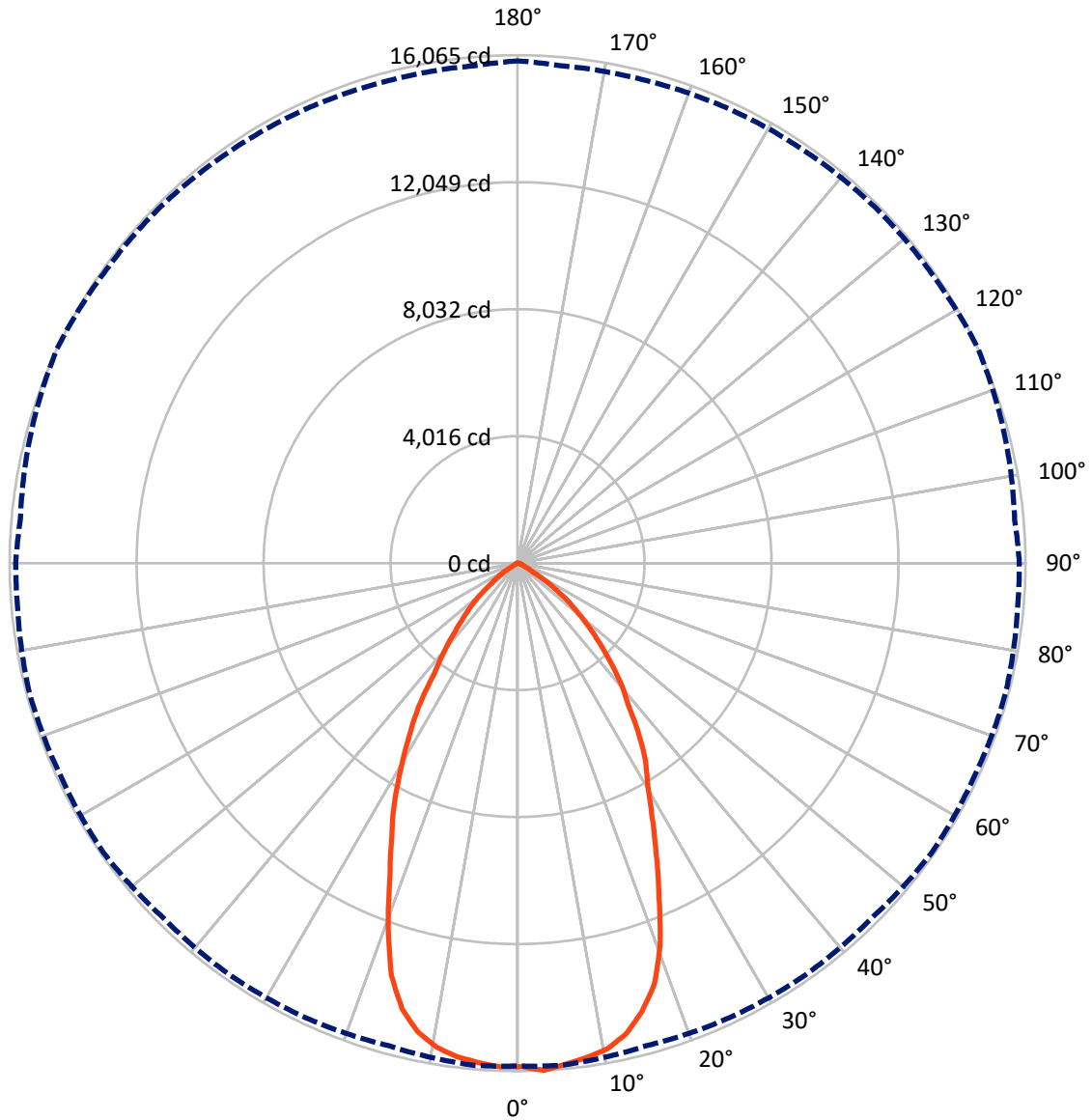
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 39.8 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 115-Deg Lateral - - - Horizontal Cone Through 2.5-Deg Vertical

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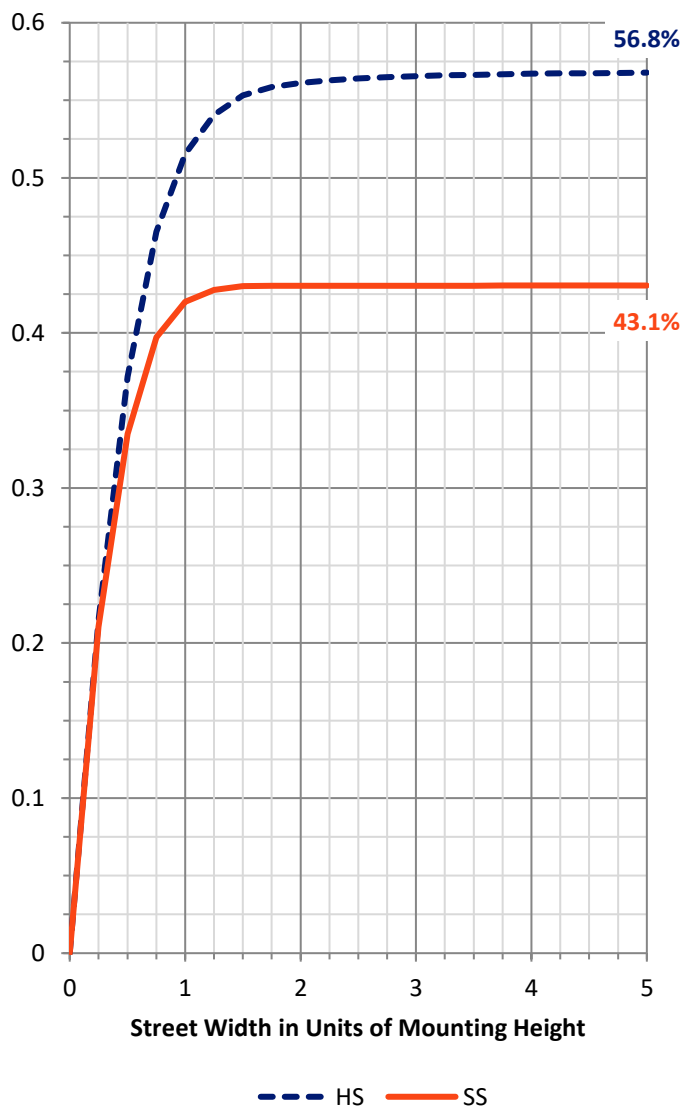
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10273.3	0.0	10273.3
	% Fixture	57.2	0.0	57.2
Street Side	Lumens	7678.0	0.0	7678.0
	% Fixture	42.8	0.0	42.8
Total	Lumens	17951.3	0.0	17951.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1500.2	8.4
10°-20°	3977.6	22.2
20°-30°	4549.6	25.3
30°-40°	3898.9	21.7
40°-50°	2578.1	14.4
50°-60°	1125.0	6.3
60°-70°	221.0	1.2
70°-80°	79.7	0.4
80°-90°	21.2	0.1
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°	17951.3	100.0
0°-180°	17951.3	100.0



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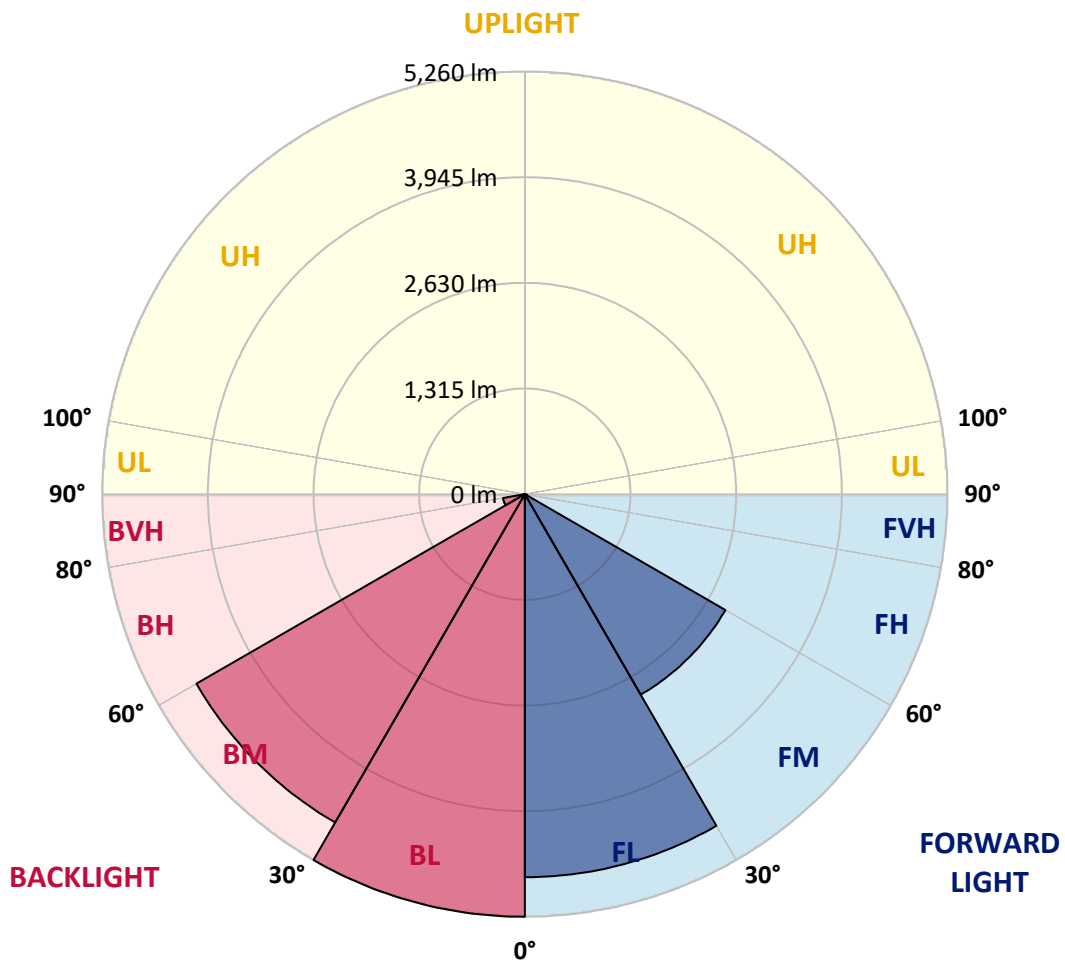
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4767.5	26.6			
FM (30°-60°)	2882.6	16.1			
FH (60°-80°)	24.4	0.1			G0/660
FVH (80°-90°)	3.5	0.0			G0/10
BL (0°-30°)	5259.9	29.3	B5		
BM (30°-60°)	4719.3	26.3	B3/5000		
BH (60°-80°)	276.4	1.5	B1/500		G1/500
BVH (80°-90°)	17.7	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G1

Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	15927.4	15927.4	15927.4	15927.4	15927.4	15927.4	15927.4	15927.4	15927.4	15927.4
2.5°	15904.5	15942.6	15797.6	15862.5	15889.2	15854.9	15980.8	15942.6	15973.2	15877.8
5°	15904.5	15942.6	15774.7	15805.3	15812.9	15748.0	15885.4	15839.6	15843.4	15744.2
7.5°	15805.3	15851.1	15698.4	15721.3	15725.1	15671.7	15790.0	15725.1	15702.2	15599.2
10°	15538.2	15564.9	15427.5	15484.7	15538.2	15488.6	15591.6	15519.1	15519.1	15427.5
12.5°	15114.6	15164.2	15011.6	15080.3	15126.1	15068.8	15187.1	15160.4	15164.2	15072.6
15°	14343.8	14172.1	14355.2	14492.6	14496.4	14485.0	14595.6	14568.9	14588.0	14450.6
17.5°	10596.6	10554.7	10768.3	12390.1	13595.9	13760.0	13779.1	13634.1	13569.2	13435.6
20°	9818.2	9848.7	9802.9	9810.6	10760.7	12733.5	12615.2	12256.5	12092.4	11958.9
22.5°	9249.6	9200.0	9169.5	9150.4	9177.1	10463.1	11314.0	10772.2	10684.4	10619.5
25°	8631.5	8608.6	8570.4	8562.8	8547.5	8330.0	9554.9	9604.5	9463.3	9383.2
27.5°	8055.3	8040.0	7998.0	7994.2	7818.7	7292.1	7425.7	8604.8	8566.6	8536.1
30°	7440.9	7410.4	7387.5	7387.5	6857.1	6315.2	6097.7	7502.0	7502.0	7475.3
32.5°	6773.1	6746.4	6754.1	6662.5	6029.1	5533.0	5189.6	6475.5	6876.2	6853.3
35°	4140.2	4132.6	4907.2	5926.0	5181.9	4731.7	4708.8	5540.6	6124.4	6185.5
37.5°	3686.1	3663.2	3674.7	3739.5	4437.8	4258.5	4250.9	4392.0	5212.5	5243.0
40°	3308.3	3293.1	3281.6	3048.9	2827.5	3800.6	3773.9	3682.3	4453.1	4506.5
42.5°	2949.7	2934.4	2934.4	2606.2	2247.5	3125.2	3136.6	3029.8	3754.8	3773.9
45°	2579.5	2568.1	2503.2	2079.6	1976.6	2075.8	2598.6	2476.5	2980.2	3178.6
47.5°	1217.3	1209.6	1751.5	1728.6	1721.0	1659.9	1984.2	2052.9	2365.8	2564.3
50°	976.9	969.2	923.4	812.8	1415.7	1259.2	1430.9	1579.8	1679.0	1862.1
52.5°	809.0	801.3	705.9	625.8	786.1	919.6	854.8	1057.0	1053.2	1251.6
55°	530.4	492.2	541.9	511.3	412.1	667.8	652.5	801.3	782.3	954.0
57.5°	11.4	11.4	26.7	290.0	259.5	282.4	374.0	457.9	515.1	564.7
60°	3.8	3.8	7.6	15.3	106.8	118.3	145.0	167.9	236.6	293.8
62.5°	0.0	0.0	3.8	7.6	15.3	61.1	68.7	80.1	110.7	152.6
65°	0.0	0.0	0.0	3.8	7.6	15.3	22.9	49.6	68.7	87.8
67.5°	0.0	0.0	0.0	3.8	3.8	7.6	15.3	22.9	30.5	61.1
70°	0.0	0.0	0.0	3.8	3.8	7.6	11.4	15.3	22.9	30.5
72.5°	0.0	0.0	0.0	3.8	3.8	11.4	7.6	11.4	15.3	19.1
75°	0.0	0.0	0.0	3.8	3.8	3.8	7.6	11.4	11.4	15.3
77.5°	0.0	0.0	0.0	3.8	7.6	7.6	7.6	7.6	7.6	11.4
80°	0.0	0.0	0.0	3.8	3.8	7.6	11.4	15.3	7.6	7.6
82.5°	0.0	0.0	0.0	7.6	3.8	15.3	22.9	19.1	7.6	3.8
85°	0.0	0.0	0.0	3.8	15.3	19.1	19.1	11.4	3.8	3.8
87.5°	0.0	0.0	0.0	3.8	3.8	7.6	11.4	11.4	3.8	3.8
90°	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°
15927.4	0°	15927.4	15927.4	15927.4	15927.4	15927.4	15927.4	15927.4	15927.4	15927.4
15870.1	2.5°	15782.4	15931.2	16064.8	15980.8	15950.3	15889.2	15843.4	15793.8	15790.0
15732.8	5°	15645.0	15786.2	15915.9	15816.7	15824.4	15793.8	15763.3	15751.9	15759.5
15591.6	7.5°	15526.7	15645.0	15786.2	15702.2	15725.1	15706.1	15690.8	15667.9	15702.2
15408.4	10°	15347.4	15454.2	15618.3	15538.2	15526.7	15507.6	15492.4	15450.4	15469.5
15076.4	12.5°	14954.3	15087.9	15274.9	15183.3	15213.8	15160.4	15137.5	15110.8	15114.6
14500.3	15°	14420.1	14523.1	14713.9	14641.4	14664.3	14630.0	14630.0	14630.0	14656.7
13454.7	17.5°	13489.0	13698.9	14000.4	13908.8	13943.1	13950.8	13943.1	13969.8	14004.2
11966.5	20°	11974.2	12332.8	12882.3	13061.7	13134.2	13138.0	13084.6	13149.4	13218.1
10573.7	22.5°	10581.4	10959.1	11443.8	11936.0	12241.3	12226.0	12233.6	12275.6	12348.1
9333.6	25°	9375.6	9738.1	10176.9	10615.7	11283.5	11420.9	11424.7	11462.8	11520.1
8486.5	27.5°	8505.5	8646.7	9047.4	9490.0	10207.4	10646.2	10623.3	10657.7	10718.7
7425.7	30°	7456.2	7998.0	8089.6	8360.5	8978.7	9783.9	9787.7	9825.8	9886.9
6799.9	32.5°	6780.8	7139.5	7421.8	7429.5	7956.1	8784.1	8948.2	8986.3	9028.3
6151.2	35°	6147.3	6189.3	6570.9	6677.7	6983.0	7803.4	8093.4	8116.3	8185.0
5231.5	37.5°	5319.3	5567.3	5674.2	6055.8	6071.0	6735.0	7311.2	7288.3	7341.7
4502.7	40°	4559.9	4796.5	5067.5	5346.0	5384.2	5880.2	6517.5	6540.4	6563.3
3735.7	42.5°	3766.2	4067.7	4346.3	4533.2	4792.7	5078.9	5685.6	5792.5	5845.9
3201.5	45°	3258.7	3342.7	3674.7	3949.4	4212.7	4346.3	4914.8	5109.4	5143.8
2533.7	47.5°	2568.1	2850.4	3075.6	3308.3	3636.5	3754.8	4166.9	4437.8	4464.6
1881.2	50°	1984.2	2186.5	2495.6	2705.4	3087.0	3151.9	3434.3	3785.3	3819.7
1259.2	52.5°	1419.5	1694.2	1995.7	2197.9	2564.3	2648.2	2858.1	3193.9	3216.8
965.4	55°	1018.8	1198.2	1446.2	1736.2	2003.3	2190.3	2335.3	2655.8	2686.4
633.4	57.5°	694.5	862.4	965.4	1255.4	1415.7	1617.9	1736.2	1980.4	2003.3
301.5	60°	332.0	412.1	492.2	637.2	740.3	912.0	988.3	1087.5	1114.2
183.2	62.5°	213.7	251.8	320.5	381.6	480.8	587.6	618.2	702.1	732.6
114.5	65°	141.2	179.3	251.8	267.1	366.3	450.3	488.4	549.5	583.8
68.7	67.5°	80.1	125.9	187.0	221.3	290.0	370.1	412.1	465.5	496.1
45.8	70°	53.4	103.0	148.8	183.2	229.0	297.6	351.1	396.8	415.9
22.9	72.5°	30.5	64.9	103.0	145.0	183.2	248.0	297.6	335.8	221.3
15.3	75°	19.1	49.6	87.8	122.1	152.6	198.4	240.4	236.6	99.2
11.4	77.5°	15.3	38.2	76.3	103.0	125.9	137.4	171.7	194.6	76.3
7.6	80°	11.4	30.5	68.7	87.8	49.6	99.2	133.6	145.0	53.4
7.6	82.5°	7.6	19.1	57.2	61.1	34.3	72.5	106.8	95.4	38.2
3.8	85°	3.8	11.4	19.1	34.3	30.5	34.3	26.7	38.2	26.7
3.8	87.5°	3.8	7.6	15.3	15.3	15.3	11.4	15.3	15.3	15.3
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
15927.4
15881.6
15854.9
15797.6
15561.1
15225.3
14668.1
14118.7
13263.9
12359.6
11619.3
10776.0
9993.7
9123.7
8257.5
7406.6
6635.8
5922.2
5227.7
4529.4
3869.3
3258.7
2713.1
2049.1
1144.8
740.3
583.8
492.2
412.1
179.3
99.2
76.3
57.2
38.2
26.7
15.3
0.0

(END OF REPORT)