

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: P637825

Luminaire Tested: **IFLD-M-SA4A-727-U-66-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637825
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4A-727-U-66-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 6 distribution lens and Visor
Light Source: (64) 2700K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13022.8 lumens
Efficiency: N/A
Efficacy: 101.3 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B4 - U0 - G1

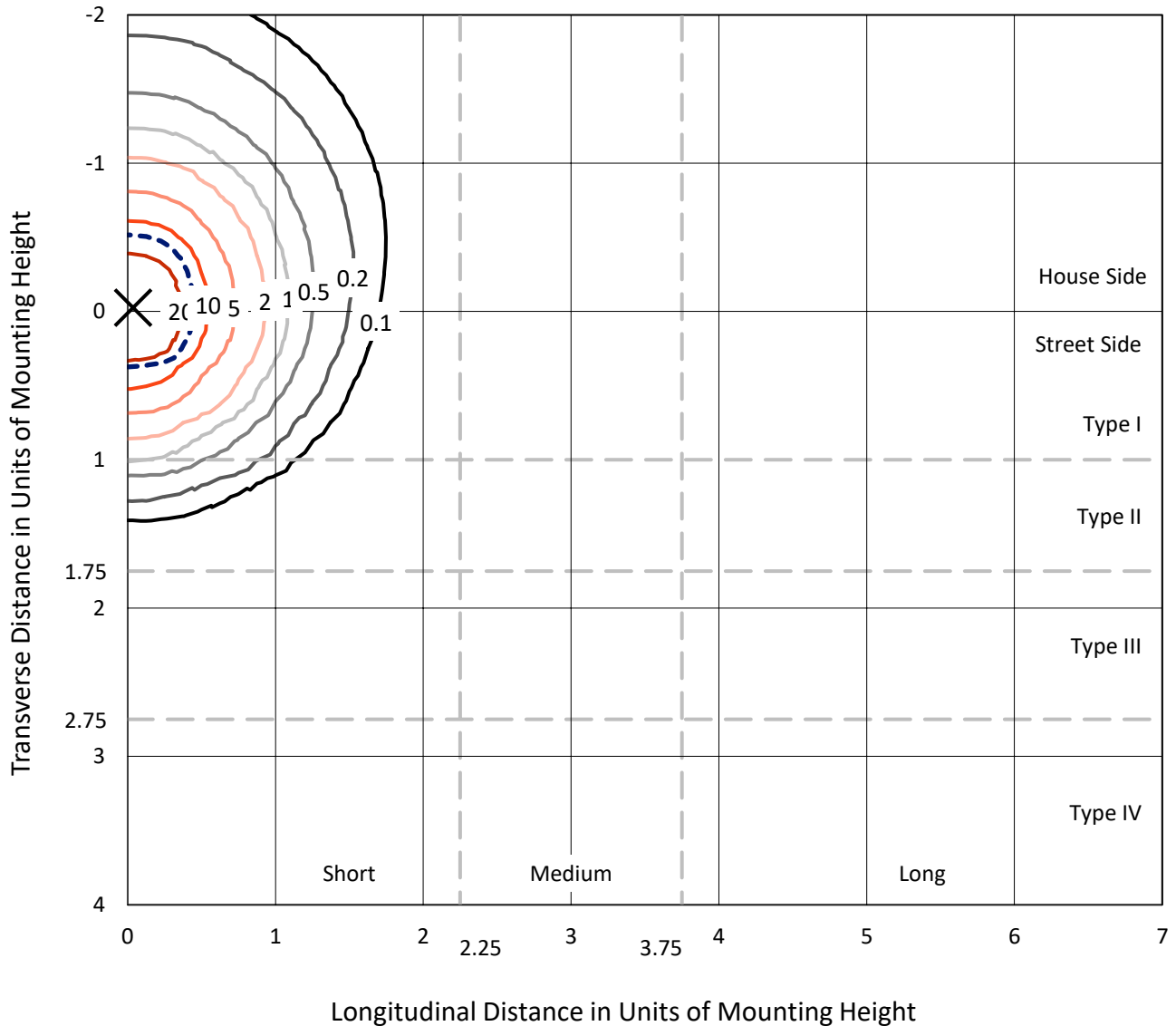
Input Watts (W): 128.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

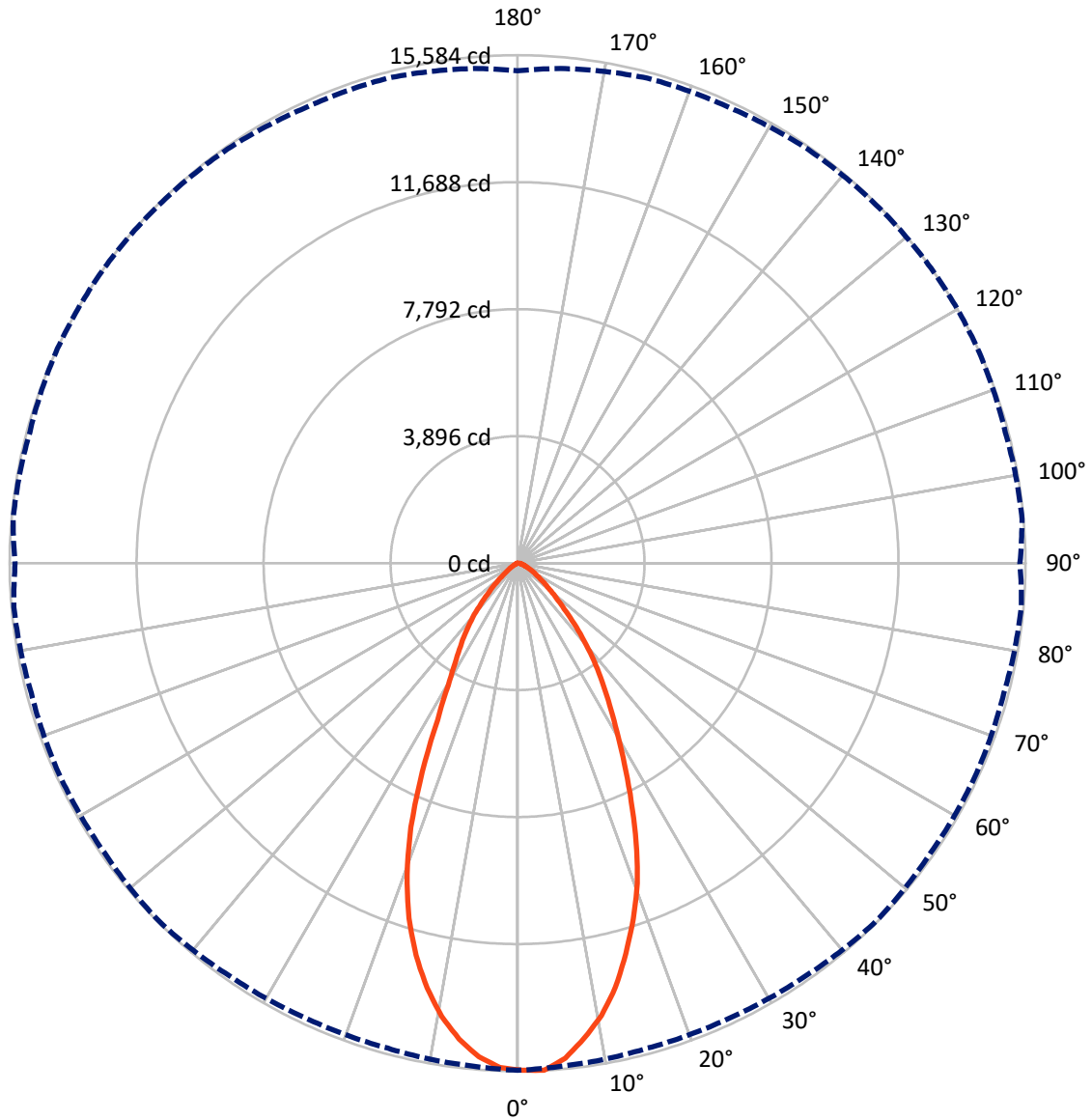
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 38.9 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 125-Deg Lateral - - - Horizontal Cone Through 2.5-Deg Vertical

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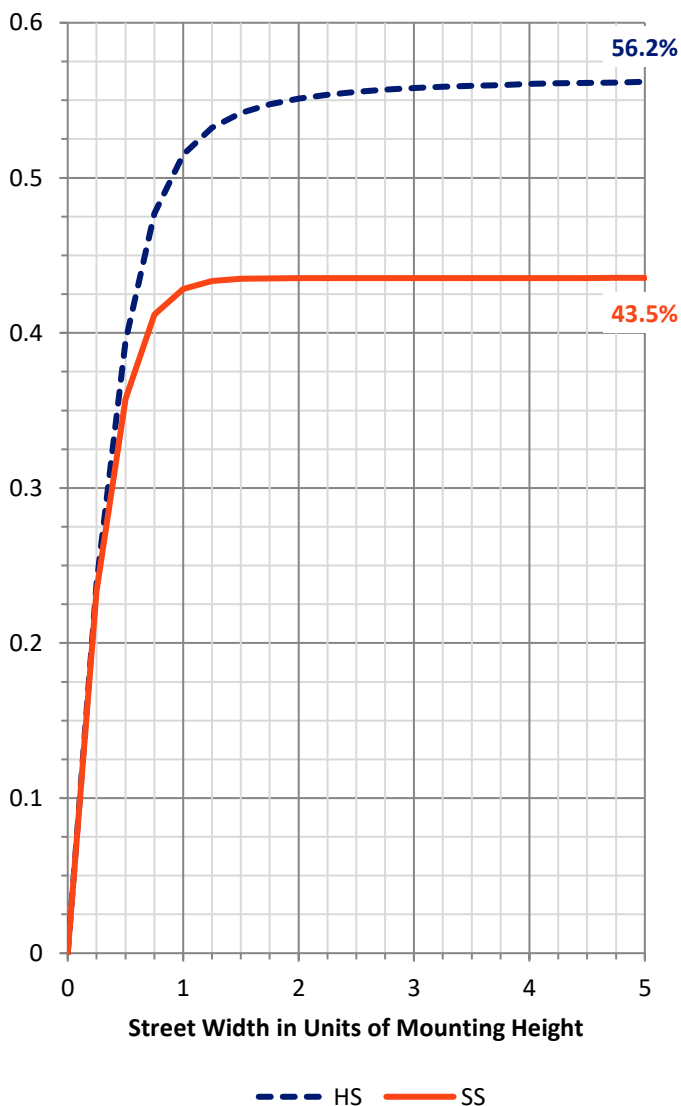
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7389.6	0.0	7389.6
	% Fixture	56.7	0.0	56.7
Street Side	Lumens	5633.1	0.0	5633.1
	% Fixture	43.3	0.0	43.3
Total	Lumens	13022.8	0.0	13022.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1412.8	10.8
10°-20°	3367.9	25.9
20°-30°	3430.1	26.3
30°-40°	2557.8	19.6
40°-50°	1336.3	10.3
50°-60°	562.0	4.3
60°-70°	229.5	1.8
70°-80°	96.6	0.7
80°-90°	29.8	0.2
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°	13022.8	100.0
0°-180°	13022.8	100.0



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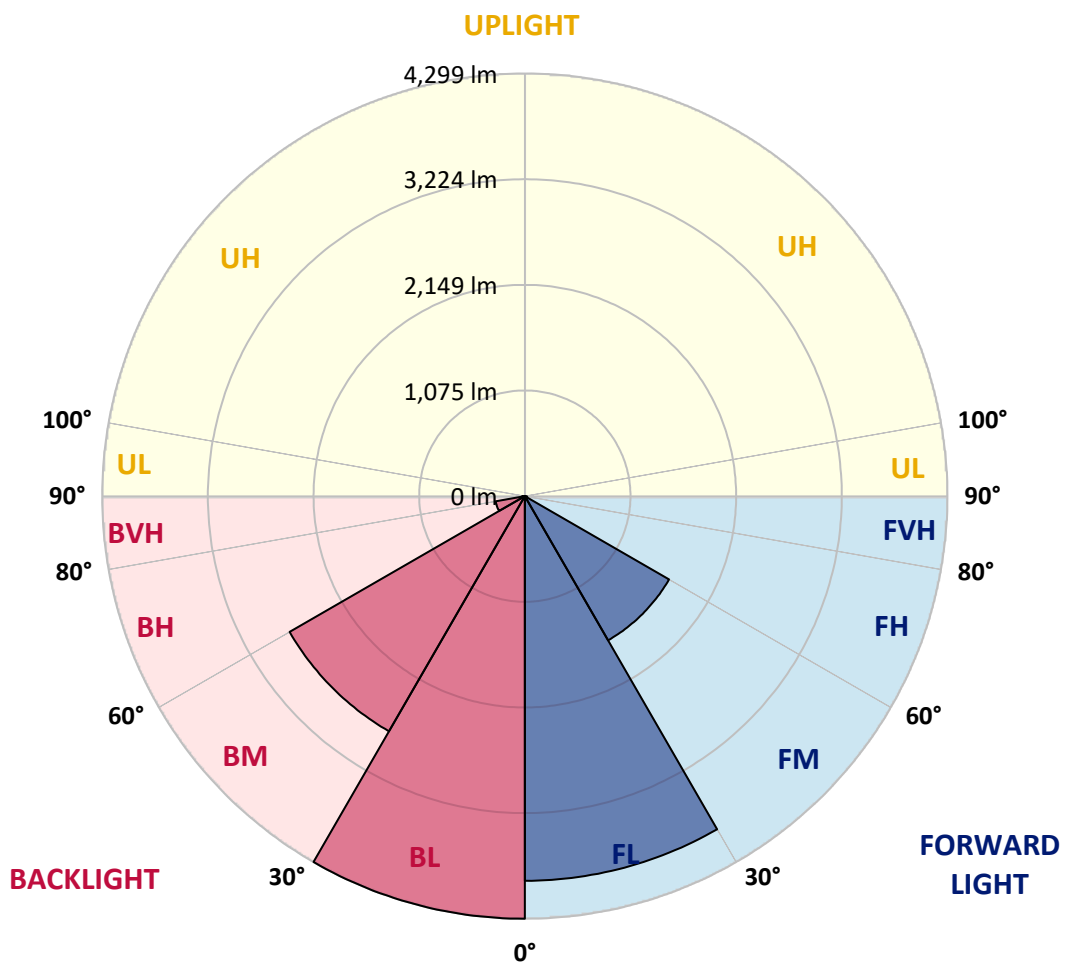
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3912.2	30.0			
FM (30°-60°)	1693.7	13.0			
FH (60°-80°)	24.5	0.2			G0/660
FVH (80°-90°)	2.8	0.0			G0/10
BL (0°-30°)	4298.6	33.0	B4/5000		
BM (30°-60°)	2762.5	21.2	B3/5000		
BH (60°-80°)	301.6	2.3	B1/500		G1/500
BVH (80°-90°)	27.0	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G1

Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	15559.1	15559.1	15559.1	15559.1	15559.1	15559.1	15559.1	15559.1	15559.1	15559.1
2.5°	15560.8	15497.2	15406.9	15398.5	15445.3	15547.4	15482.1	15485.5	15445.3	15513.9
5°	15316.5	15256.3	15194.4	15112.4	15181.0	15224.5	15191.1	15154.3	15102.4	15169.3
7.5°	14854.8	14821.4	14729.4	14692.5	14734.4	14782.9	14711.0	14700.9	14629.0	14716.0
10°	14148.9	14135.5	14045.2	14023.4	14060.2	14133.8	14102.0	14095.3	14050.2	14041.8
12.5°	13416.2	13364.3	13252.2	13245.5	13300.7	13411.2	13325.8	13243.9	13269.0	13290.7
15°	11529.2	11474.0	11751.7	12188.3	12417.5	12409.1	12434.2	12335.5	12305.4	12315.4
17.5°	9165.5	9071.8	9172.2	9848.0	10937.0	11569.4	11395.4	11182.9	11069.2	10993.9
20°	7910.9	7915.9	7897.5	8071.5	8750.6	10192.6	10150.8	9740.9	9592.1	9530.2
22.5°	7148.0	7119.6	7079.5	7134.7	7317.0	8163.5	8730.5	8354.2	8302.3	8233.7
25°	6400.3	6400.3	6351.8	6407.0	6458.8	6470.5	7039.3	7193.2	7092.8	7092.8
27.5°	5752.9	5719.4	5697.7	5722.8	5654.2	5324.6	5396.6	6184.5	6115.9	6074.1
30°	5110.5	5100.5	5063.7	5097.1	4842.9	4471.5	4320.9	5219.3	5291.2	5276.1
32.5°	4218.9	4259.0	4423.0	4474.8	4039.9	3740.5	3596.6	4332.7	4620.4	4608.7
35°	2867.2	2900.7	3088.1	3707.0	3349.0	3134.9	3093.1	3446.0	3919.5	3964.6
37.5°	2283.4	2278.4	2331.9	2442.3	2691.6	2639.7	2628.0	2720.0	3196.8	3216.9
40°	1881.9	1875.3	1873.6	1783.2	1721.4	2194.8	2163.0	2107.8	2521.0	2561.1
42.5°	1517.3	1524.0	1529.0	1331.6	1241.2	1692.9	1674.5	1617.6	1977.3	2024.1
45°	1191.1	1189.4	1199.4	992.0	966.9	1082.3	1251.3	1206.1	1492.2	1542.4
47.5°	617.3	639.0	774.5	767.8	779.5	767.8	946.8	935.1	1122.5	1202.8
50°	414.9	421.6	433.3	434.9	613.9	565.4	642.4	727.7	786.2	910.0
52.5°	321.2	326.2	296.1	277.7	376.4	418.2	421.6	503.5	548.7	674.2
55°	179.0	200.7	215.8	217.5	207.4	309.5	307.8	373.0	408.2	491.8
57.5°	23.4	28.4	43.5	140.5	138.8	172.3	215.8	271.0	291.1	359.7
60°	1.7	3.3	5.0	21.7	92.0	100.4	147.2	169.0	202.4	252.6
62.5°	0.0	0.0	1.7	5.0	18.4	58.5	77.0	88.7	118.8	165.6
65°	0.0	0.0	1.7	3.3	6.7	21.7	30.1	48.5	70.3	102.0
67.5°	0.0	0.0	1.7	3.3	5.0	8.4	13.4	21.7	36.8	61.9
70°	0.0	0.0	1.7	3.3	5.0	6.7	10.0	13.4	20.1	33.5
72.5°	0.0	0.0	1.7	1.7	3.3	8.4	8.4	10.0	13.4	18.4
75°	0.0	0.0	1.7	3.3	5.0	8.4	8.4	8.4	10.0	11.7
77.5°	0.0	0.0	1.7	3.3	5.0	8.4	6.7	8.4	8.4	8.4
80°	0.0	0.0	1.7	3.3	5.0	8.4	10.0	8.4	6.7	6.7
82.5°	0.0	0.0	1.7	5.0	5.0	11.7	11.7	11.7	5.0	5.0
85°	0.0	0.0	3.3	5.0	8.4	13.4	13.4	10.0	5.0	3.3
87.5°	0.0	0.0	1.7	3.3	3.3	6.7	10.0	8.4	3.3	1.7
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°
15559.1	0°	15559.1	15559.1	15559.1	15559.1	15559.1	15559.1	15559.1	15559.1	15559.1
15413.5	2.5°	15537.3	15495.5	15574.1	15584.2	15550.7	15508.9	15411.9	15403.5	15234.5
15072.3	5°	15242.9	15174.3	15224.5	15258.0	15246.3	15201.1	15160.9	15124.1	14971.9
14518.6	7.5°	14694.2	14669.1	14692.5	14717.6	14766.2	14717.6	14700.9	14662.4	14511.9
13973.2	10°	14085.3	14038.5	14127.1	14115.4	14102.0	14088.7	14018.4	14025.1	13847.8
13230.5	12.5°	13337.5	13258.9	13344.2	13354.3	13344.2	13297.4	13218.8	13252.2	13090.0
12226.8	15°	12332.2	12323.8	12385.7	12425.9	12454.3	12404.1	12377.3	12394.1	12297.0
10935.4	17.5°	11097.6	11206.4	11408.8	11477.4	11479.0	11530.9	11515.8	11495.8	11423.8
9505.1	20°	9645.6	9854.7	10165.8	10485.4	10577.4	10533.9	10513.8	10550.6	10443.5
8161.8	22.5°	8305.6	8484.6	8846.0	9312.7	9582.0	9608.8	9603.8	9572.0	9530.2
7086.1	25°	7168.1	7327.0	7673.3	8099.9	8616.8	8693.7	8697.1	8687.1	8650.3
6110.9	27.5°	6207.9	6400.3	6591.0	6972.4	7522.8	7840.6	7800.5	7788.7	7775.4
5287.8	30°	5338.0	5580.6	5759.6	5997.1	6490.6	6920.5	6962.4	6942.3	6910.5
4607.0	32.5°	4648.8	4792.7	5020.2	5180.8	5535.4	6022.2	6182.8	6167.8	6139.3
3993.1	35°	4049.9	4106.8	4285.8	4464.8	4700.7	5172.4	5410.0	5376.5	5371.5
3253.7	37.5°	3335.6	3526.3	3625.0	3805.7	3971.3	4337.7	4665.5	4650.5	4652.2
2616.3	40°	2693.3	2803.7	2999.4	3151.6	3303.9	3571.5	3936.2	3946.2	3942.9
2025.8	42.5°	2067.6	2174.7	2380.5	2546.1	2681.6	2847.2	3195.1	3206.8	3221.9
1577.5	45°	1614.3	1682.9	1833.4	2005.7	2149.6	2250.0	2514.3	2589.6	2591.2
1222.8	47.5°	1253.0	1331.6	1438.6	1604.3	1744.8	1816.7	2009.1	2111.1	2106.1
938.5	50°	983.6	1055.6	1142.5	1273.0	1425.3	1482.1	1624.3	1724.7	1719.7
707.6	52.5°	752.8	844.8	921.7	1022.1	1171.0	1219.5	1321.5	1437.0	1420.2
518.6	55°	570.4	664.1	736.0	819.7	955.2	1017.1	1087.3	1179.4	1182.7
401.5	57.5°	429.9	526.9	592.2	677.5	779.5	848.1	901.7	1000.4	998.7
274.3	60°	307.8	391.4	470.1	558.7	637.4	716.0	752.8	846.5	849.8
194.0	62.5°	222.5	301.1	376.4	453.3	523.6	600.5	634.0	707.6	717.6
127.1	65°	155.6	210.8	297.8	356.3	434.9	491.8	535.3	598.9	610.6
75.3	67.5°	100.4	152.2	235.9	287.7	359.7	408.2	453.3	503.5	518.6
48.5	70°	60.2	115.4	175.6	230.9	296.1	339.6	383.1	426.6	434.9
23.4	72.5°	38.5	80.3	127.1	187.4	237.5	284.4	322.9	354.6	329.5
15.1	75°	21.7	55.2	100.4	147.2	192.4	237.5	269.3	286.1	229.2
10.0	77.5°	13.4	40.1	82.0	118.8	148.9	190.7	210.8	220.8	163.9
6.7	80°	8.4	30.1	68.6	97.0	97.0	140.5	163.9	172.3	118.8
5.0	82.5°	6.7	21.7	53.5	73.6	65.2	105.4	128.8	130.5	83.6
3.3	85°	5.0	16.7	33.5	48.5	45.2	73.6	75.3	83.6	55.2
3.3	87.5°	3.3	10.0	20.1	28.4	25.1	35.1	40.1	45.2	30.1
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
15559.1
15102.4
14849.8
14480.1
13787.5
13043.1
12179.9
11316.8
10366.6
9449.9
8526.5
7696.7
6870.4
6064.0
5316.3
4598.6
3884.3
3171.7
2547.7
2087.7
1719.7
1421.9
1182.7
995.3
841.4
714.3
607.2
516.9
428.2
306.1
217.5
153.9
110.4
77.0
50.2
26.8
0.0

(END OF REPORT)