

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: P636581

Luminaire Tested: **IFLD-M-SA4D-927-U-66-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P636581
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4D-927-U-66-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 6 distribution lens and Visor
Light Source: (64) 2700K CCT, 90 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15769.6 lumens
Efficiency: N/A
Efficacy: 63.2 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B4 - U0 - G1

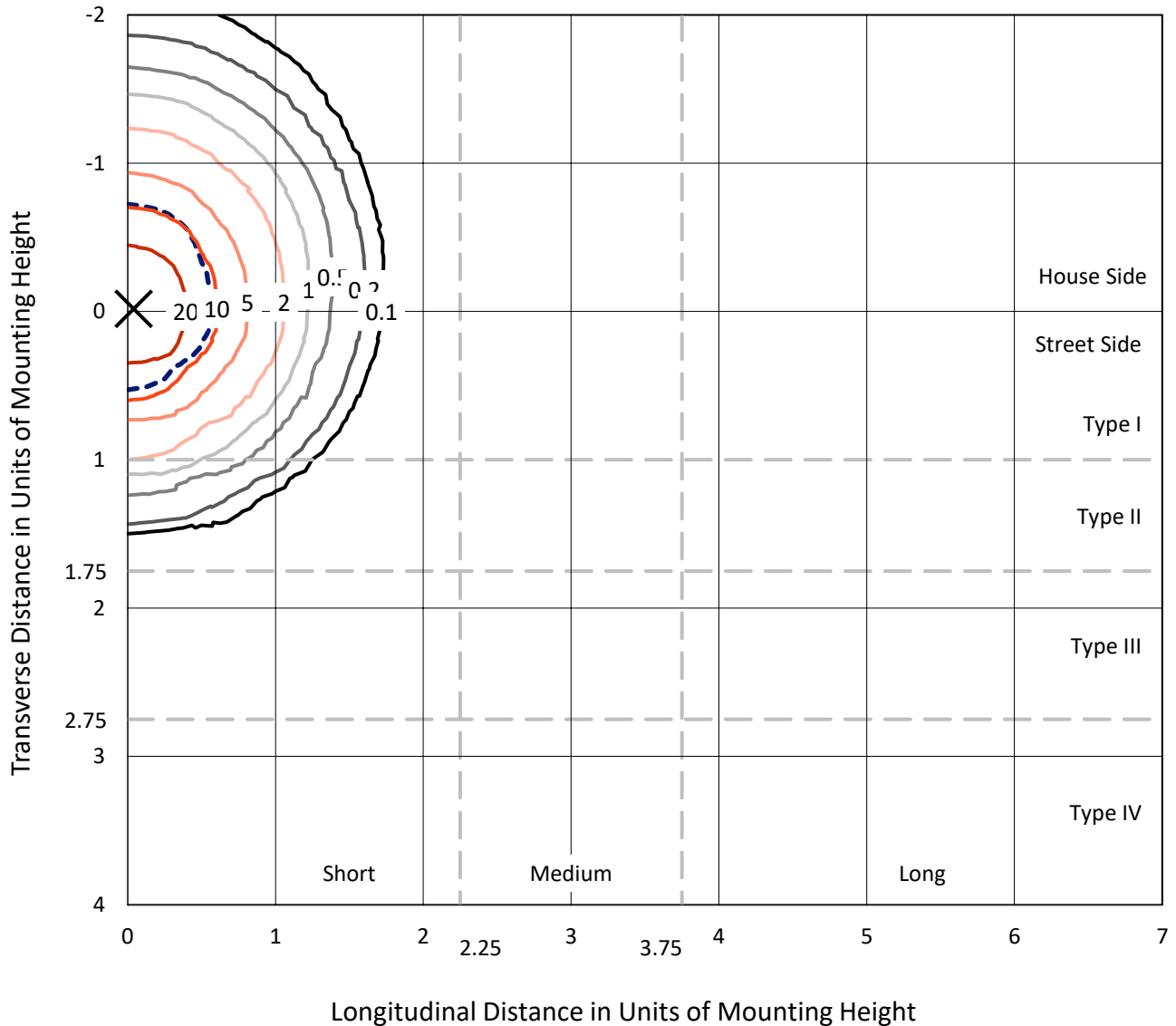
Input Watts (W): 249.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

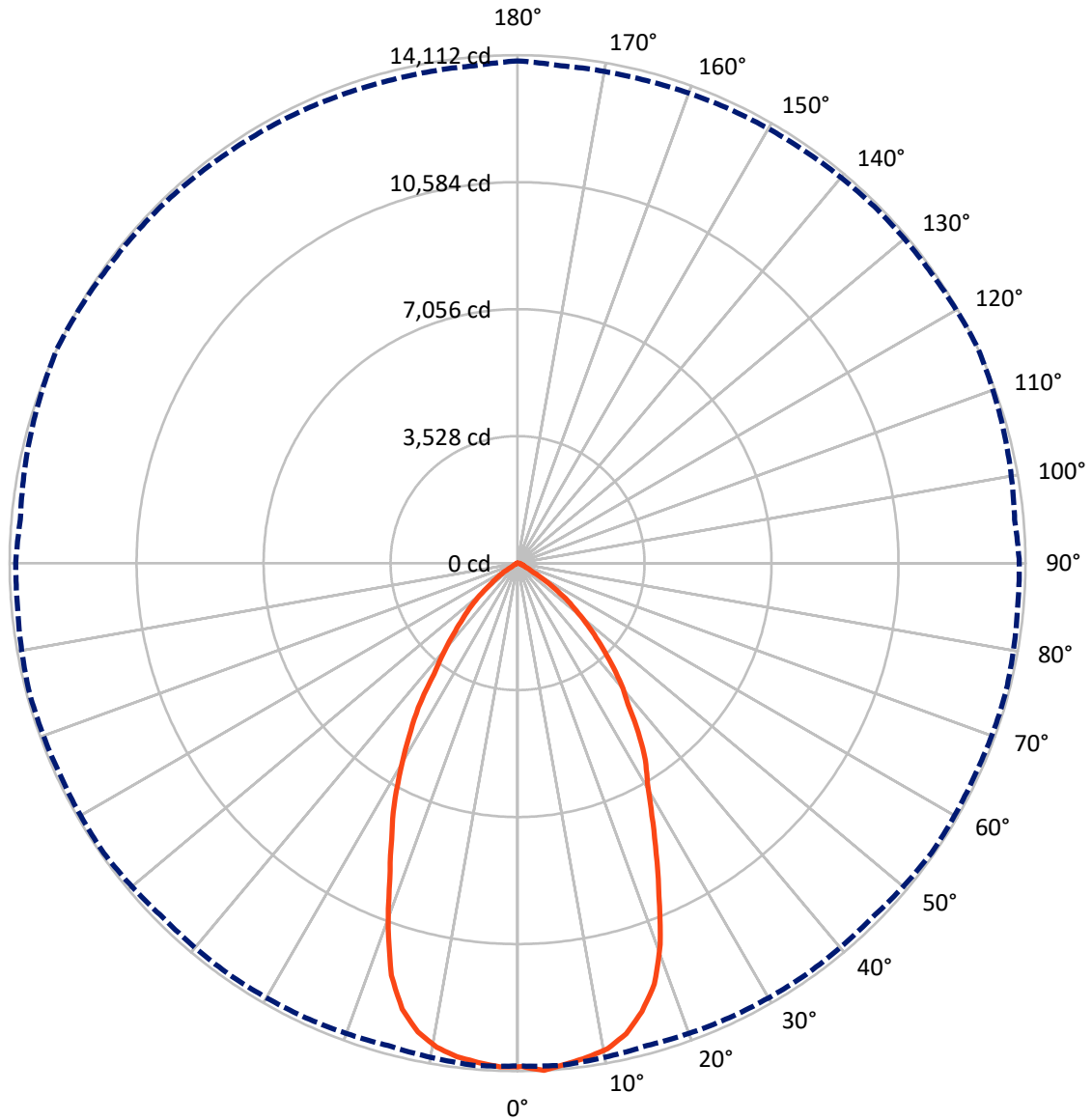
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 35 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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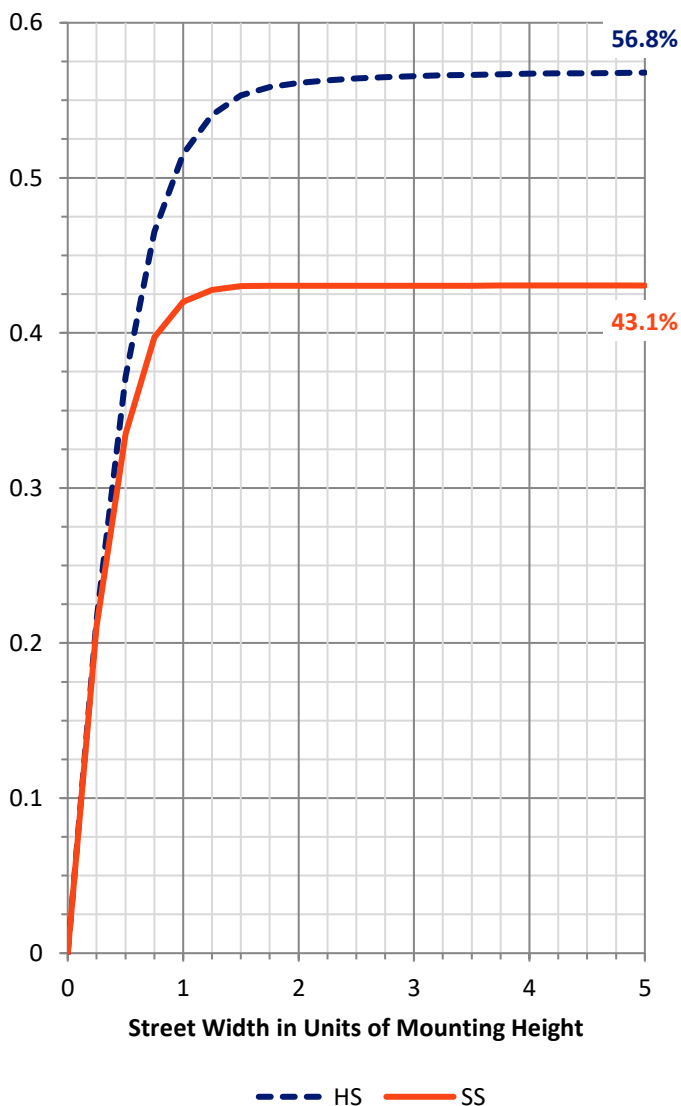
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9024.8	0.0	9024.8
	% Fixture	57.2	0.0	57.2
Street Side	Lumens	6744.9	0.0	6744.9
	% Fixture	42.8	0.0	42.8
Total	Lumens	15769.6	0.0	15769.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1317.8	8.4
10°-20°	3494.2	22.2
20°-30°	3996.7	25.3
30°-40°	3425.0	21.7
40°-50°	2264.8	14.4
50°-60°	988.2	6.3
60°-70°	194.2	1.2
70°-80°	70.1	0.4
80°-90°	18.6	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°	15769.6	100.0
0°-180°	15769.6	100.0



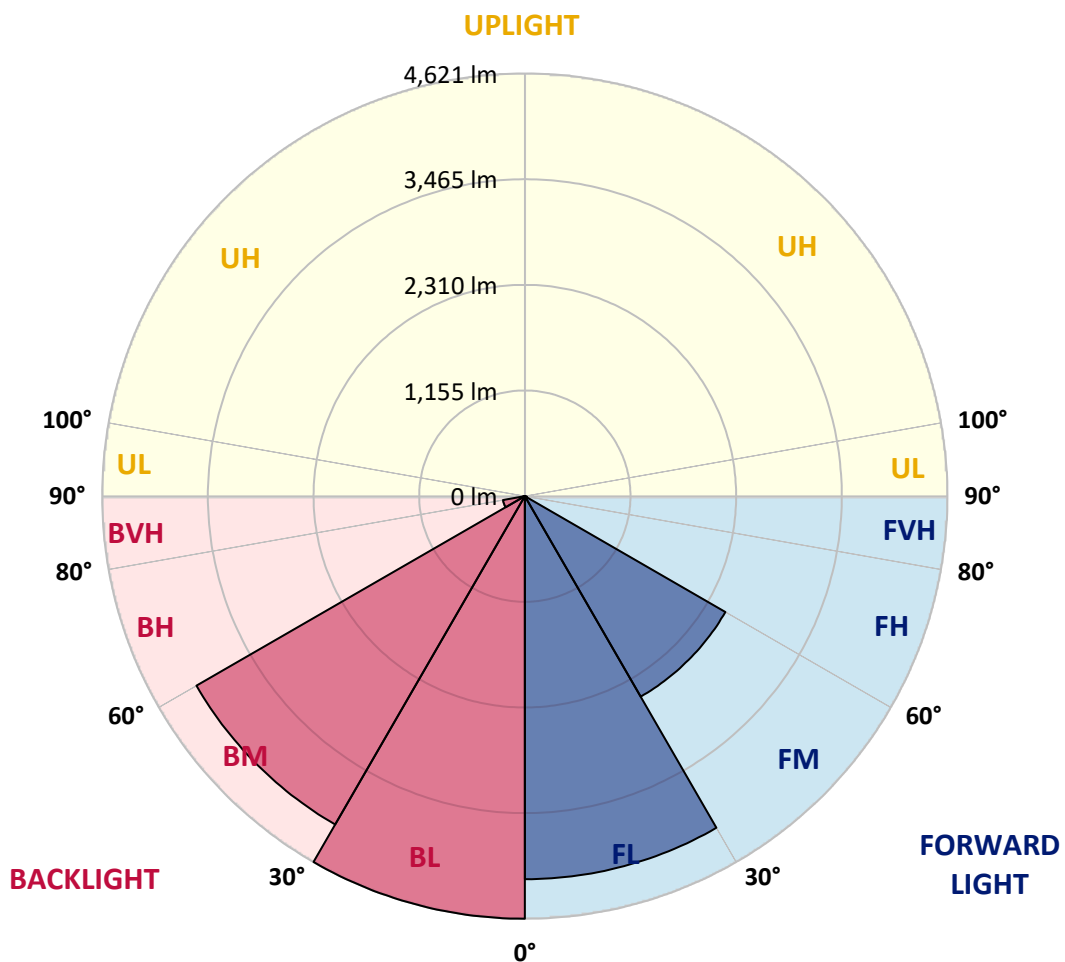
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4188.1	26.6			
FM (30°-60°)	2532.3	16.1			
FH (60°-80°)	21.5	0.1			G0/660
FVH (80°-90°)	3.1	0.0			G0/10
BL (0°-30°)	4620.7	29.3	B4/5000		
BM (30°-60°)	4145.8	26.3	B3/5000		
BH (60°-80°)	242.8	1.5	B1/500		G1/500
BVH (80°-90°)	15.6	0.1			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°	13991.6	13991.6	13991.6	13991.6	13991.6	13991.6	13991.6	13991.6	13991.6	13991.6
2.5°	13971.5	14005.0	13877.7	13934.6	13958.1	13927.9	14038.6	14005.0	14031.9	13948.1
5°	13971.5	14005.0	13857.5	13884.4	13891.1	13834.1	13954.8	13914.5	13917.9	13830.7
7.5°	13884.4	13924.6	13790.5	13810.6	13814.0	13767.0	13871.0	13814.0	13793.9	13703.3
10°	13649.7	13673.2	13552.5	13602.8	13649.7	13606.1	13696.6	13633.0	13633.0	13552.5
12.5°	13277.6	13321.2	13187.1	13247.5	13287.7	13237.4	13341.3	13317.9	13321.2	13240.8
15°	12600.5	12449.7	12610.6	12731.2	12734.6	12724.5	12821.7	12798.3	12815.0	12694.4
17.5°	9308.8	9271.9	9459.6	10884.2	11943.5	12087.6	12104.4	11977.0	11920.0	11802.7
20°	8624.9	8651.7	8611.5	8618.2	9452.9	11185.9	11082.0	10766.9	10622.8	10505.5
22.5°	8125.5	8081.9	8055.1	8038.3	8061.8	9191.4	9939.0	9463.0	9385.9	9328.9
25°	7582.4	7562.3	7528.8	7522.1	7508.7	7317.6	8393.6	8437.2	8313.2	8242.8
27.5°	7076.3	7062.9	7026.0	7022.6	6868.4	6405.8	6523.2	7559.0	7525.4	7498.6
30°	6536.6	6509.8	6489.6	6489.6	6023.7	5547.7	5356.6	6590.2	6590.2	6566.7
32.5°	5950.0	5926.5	5933.2	5852.8	5296.3	4860.5	4558.8	5688.5	6040.5	6020.4
35°	3637.0	3630.3	4310.8	5205.8	4552.1	4156.6	4136.5	4867.2	5380.1	5433.7
37.5°	3238.1	3218.0	3228.1	3285.0	3898.5	3740.9	3734.2	3858.3	4579.0	4605.8
40°	2906.3	2892.9	2882.8	2678.3	2483.9	3338.7	3315.2	3234.8	3911.9	3958.8
42.5°	2591.2	2577.8	2577.8	2289.5	1974.4	2745.4	2755.4	2661.6	3298.5	3315.2
45°	2266.0	2256.0	2199.0	1826.9	1736.4	1823.5	2282.8	2175.5	2618.0	2792.3
47.5°	1069.3	1062.6	1538.6	1518.5	1511.8	1458.2	1743.1	1803.4	2078.3	2252.6
50°	858.1	851.4	811.2	714.0	1243.6	1106.2	1257.0	1387.8	1474.9	1635.8
52.5°	710.6	703.9	620.1	549.7	690.5	807.9	750.9	928.5	925.2	1099.5
55°	465.9	432.4	476.0	449.2	362.0	586.6	573.2	703.9	687.2	838.0
57.5°	10.1	10.1	23.5	254.8	227.9	248.1	328.5	402.3	452.5	496.1
60°	3.4	3.4	6.7	13.4	93.9	103.9	127.4	147.5	207.8	258.1
62.5°	0.0	0.0	3.4	6.7	13.4	53.6	60.3	70.4	97.2	134.1
65°	0.0	0.0	0.0	3.4	6.7	13.4	20.1	43.6	60.3	77.1
67.5°	0.0	0.0	0.0	3.4	3.4	6.7	13.4	20.1	26.8	53.6
70°	0.0	0.0	0.0	3.4	3.4	6.7	10.1	13.4	20.1	26.8
72.5°	0.0	0.0	0.0	3.4	3.4	10.1	6.7	10.1	13.4	16.8
75°	0.0	0.0	0.0	3.4	3.4	3.4	6.7	10.1	10.1	13.4
77.5°	0.0	0.0	0.0	3.4	6.7	6.7	6.7	6.7	6.7	10.1
80°	0.0	0.0	0.0	3.4	3.4	6.7	10.1	13.4	6.7	6.7
82.5°	0.0	0.0	0.0	6.7	3.4	13.4	20.1	16.8	6.7	3.4
85°	0.0	0.0	0.0	3.4	13.4	16.8	16.8	10.1	3.4	3.4
87.5°	0.0	0.0	0.0	3.4	3.4	6.7	10.1	10.1	3.4	3.4
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°
13991.6	0°	13991.6	13991.6	13991.6	13991.6	13991.6	13991.6	13991.6	13991.6	13991.6
13941.3	2.5°	13864.2	13995.0	14112.3	14038.6	14011.7	13958.1	13917.9	13874.3	13871.0
13820.7	5°	13743.6	13867.6	13981.6	13894.4	13901.1	13874.3	13847.5	13837.4	13844.1
13696.6	7.5°	13639.7	13743.6	13867.6	13793.9	13814.0	13797.2	13783.8	13763.7	13793.9
13535.7	10°	13482.1	13576.0	13720.1	13649.7	13639.7	13622.9	13609.5	13572.6	13589.4
13244.1	12.5°	13136.8	13254.2	13418.4	13338.0	13364.8	13317.9	13297.7	13274.3	13277.6
12737.9	15°	12667.6	12758.1	12925.7	12862.0	12882.1	12851.9	12851.9	12851.9	12875.4
11819.5	17.5°	11849.6	12034.0	12298.8	12218.4	12248.5	12255.2	12248.5	12272.0	12302.2
10512.2	20°	10518.9	10834.0	11316.7	11474.2	11537.9	11541.3	11494.3	11551.3	11611.6
9288.6	22.5°	9295.3	9627.2	10052.9	10485.3	10753.5	10740.1	10746.8	10783.7	10847.4
8199.2	25°	8236.1	8554.5	8940.0	9325.5	9912.1	10032.8	10036.2	10069.7	10120.0
7455.1	27.5°	7471.8	7595.8	7947.8	8336.7	8966.8	9352.3	9332.2	9362.4	9416.0
6523.2	30°	6550.0	7026.0	7106.4	7344.4	7887.5	8594.8	8598.1	8631.6	8685.3
5973.4	32.5°	5956.7	6271.8	6519.8	6526.5	6989.1	7716.5	7860.7	7894.2	7931.0
5403.6	35°	5400.2	5437.1	5772.3	5866.2	6134.3	6855.0	7109.8	7129.9	7190.2
4595.7	37.5°	4672.8	4890.7	4984.6	5319.8	5333.2	5916.4	6422.6	6402.5	6449.4
3955.5	40°	4005.7	4213.6	4451.6	4696.3	4729.8	5165.6	5725.4	5745.5	5765.6
3281.7	42.5°	3308.5	3573.3	3818.0	3982.3	4210.2	4461.6	4994.6	5088.5	5135.4
2812.4	45°	2862.7	2936.4	3228.1	3469.4	3700.7	3818.0	4317.5	4488.5	4518.6
2225.8	47.5°	2256.0	2504.0	2701.8	2906.3	3194.5	3298.5	3660.5	3898.5	3921.9
1652.6	50°	1743.1	1920.7	2192.3	2376.6	2711.8	2768.8	3016.9	3325.3	3355.4
1106.2	52.5°	1247.0	1488.3	1753.1	1930.8	2252.6	2326.4	2510.7	2805.7	2825.8
848.1	55°	895.0	1052.6	1270.4	1525.2	1759.8	1924.1	2051.5	2333.1	2359.9
556.4	57.5°	610.1	757.6	848.1	1102.8	1243.6	1421.3	1525.2	1739.7	1759.8
264.8	60°	291.6	362.0	432.4	559.8	650.3	801.1	868.2	955.3	978.8
160.9	62.5°	187.7	221.2	281.6	335.2	422.4	516.2	543.0	616.8	643.6
100.6	65°	124.0	157.5	221.2	234.6	321.8	395.5	429.1	482.7	512.9
60.3	67.5°	70.4	110.6	164.3	194.4	254.8	325.2	362.0	409.0	435.8
40.2	70°	46.9	90.5	130.7	160.9	201.1	261.5	308.4	348.6	365.4
20.1	72.5°	26.8	57.0	90.5	127.4	160.9	217.9	261.5	295.0	194.4
13.4	75°	16.8	43.6	77.1	107.3	134.1	174.3	211.2	207.8	87.2
10.1	77.5°	13.4	33.5	67.0	90.5	110.6	120.7	150.8	171.0	67.0
6.7	80°	10.1	26.8	60.3	77.1	43.6	87.2	117.3	127.4	46.9
6.7	82.5°	6.7	16.8	50.3	53.6	30.2	63.7	93.9	83.8	33.5
3.4	85°	3.4	10.1	16.8	30.2	26.8	30.2	23.5	33.5	23.5
3.4	87.5°	3.4	6.7	13.4	13.4	13.4	10.1	13.4	13.4	13.4
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
13991.6
13951.4
13927.9
13877.7
13669.8
13374.8
12885.4
12402.7
11651.9
10857.4
10207.1
9466.3
8779.1
8014.9
7253.9
6506.4
5829.3
5202.4
4592.4
3978.9
3399.0
2862.7
2383.3
1800.1
1005.6
650.3
512.9
432.4
362.0
157.5
87.2
67.0
50.3
33.5
23.5
13.4
0.0

(END OF REPORT)