

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: P637929

Luminaire Tested: **IFLD-S-SA2D-750-U-66-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637929
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2D-750-U-66-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 6 distribution lens and Visor
Light Source: (32) 5000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13489.4 lumens
Efficiency: N/A
Efficacy: 108.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B4 - U0 - G1

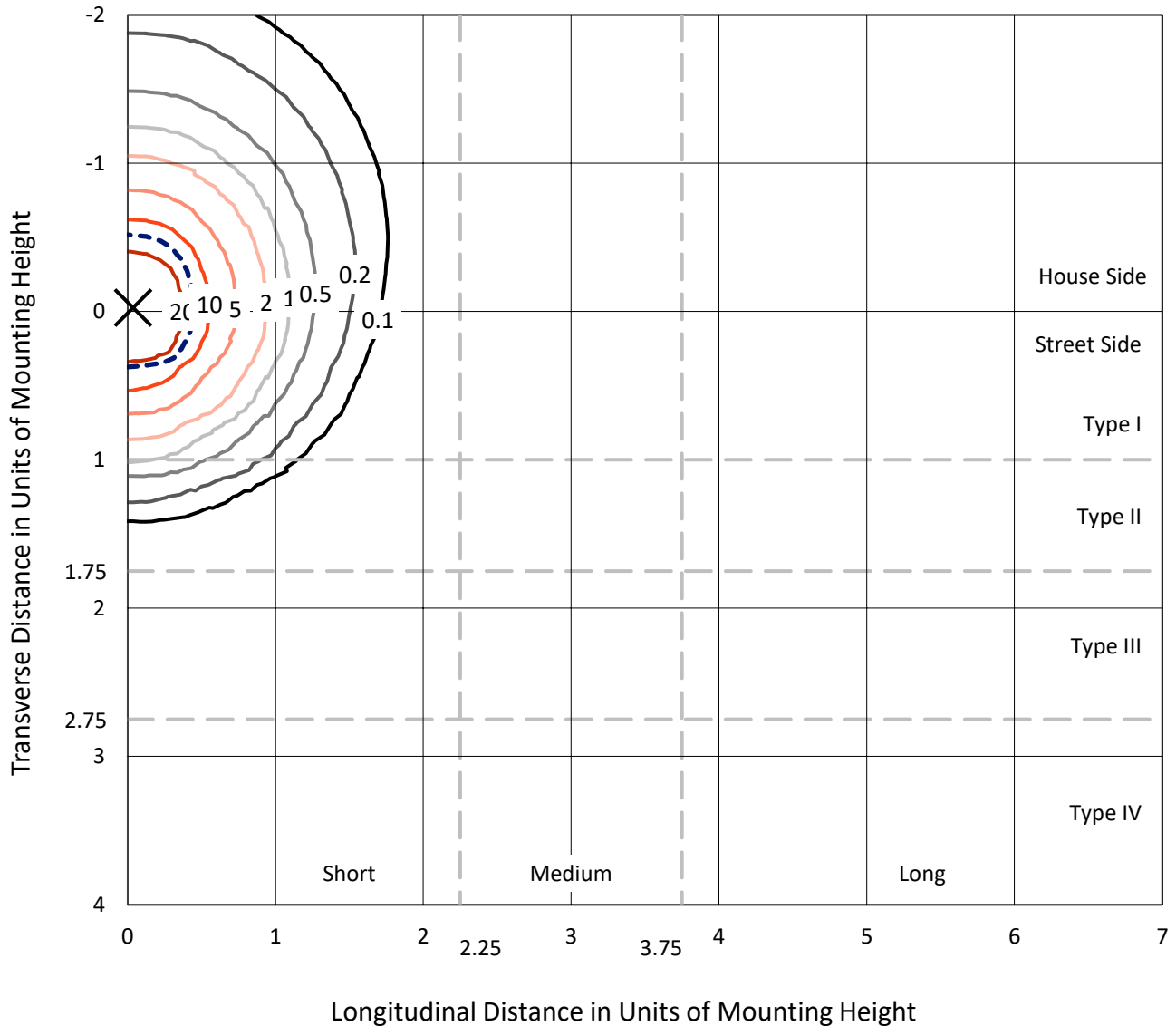
Input Watts (W): 123.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

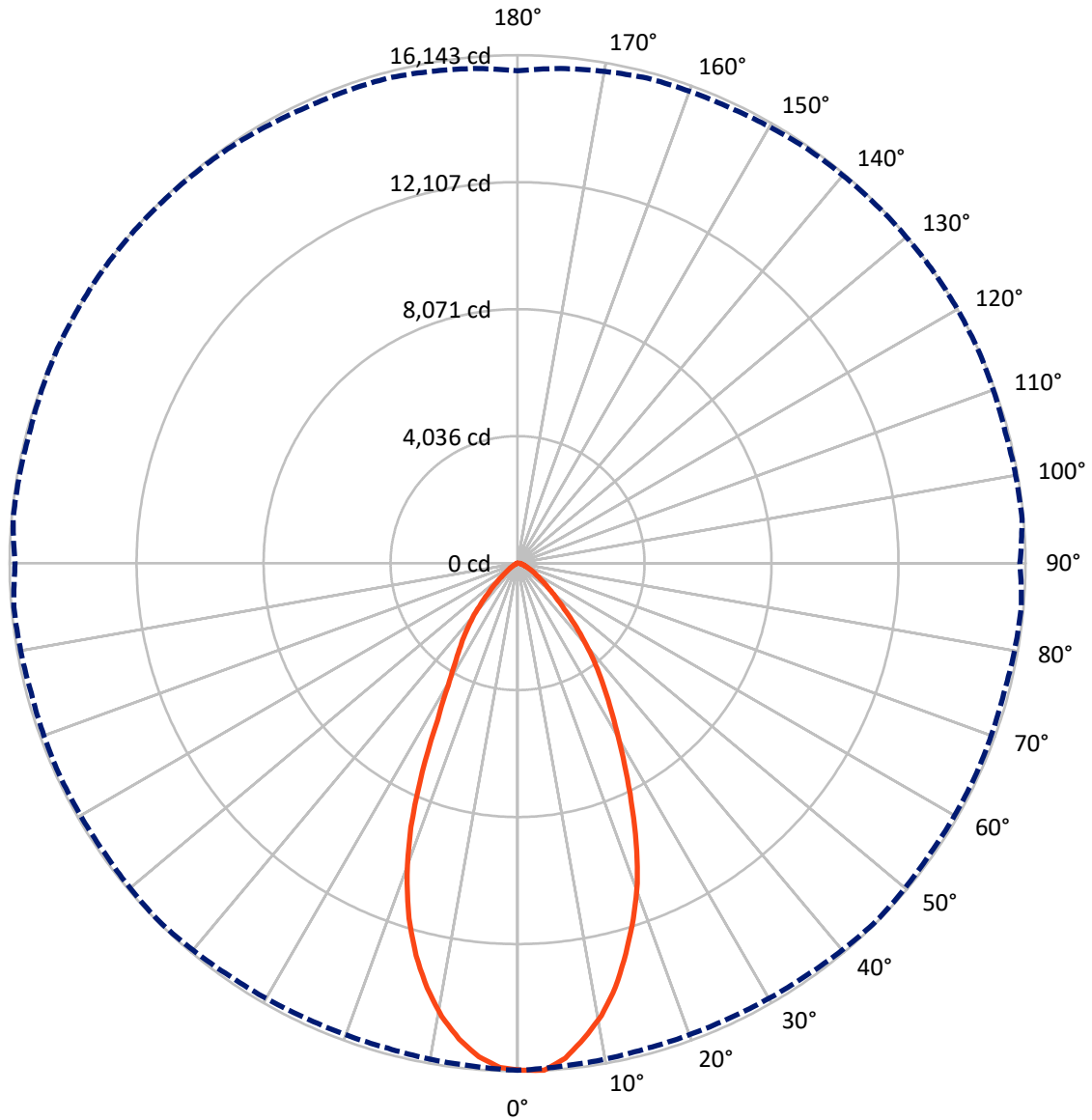
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 40.3 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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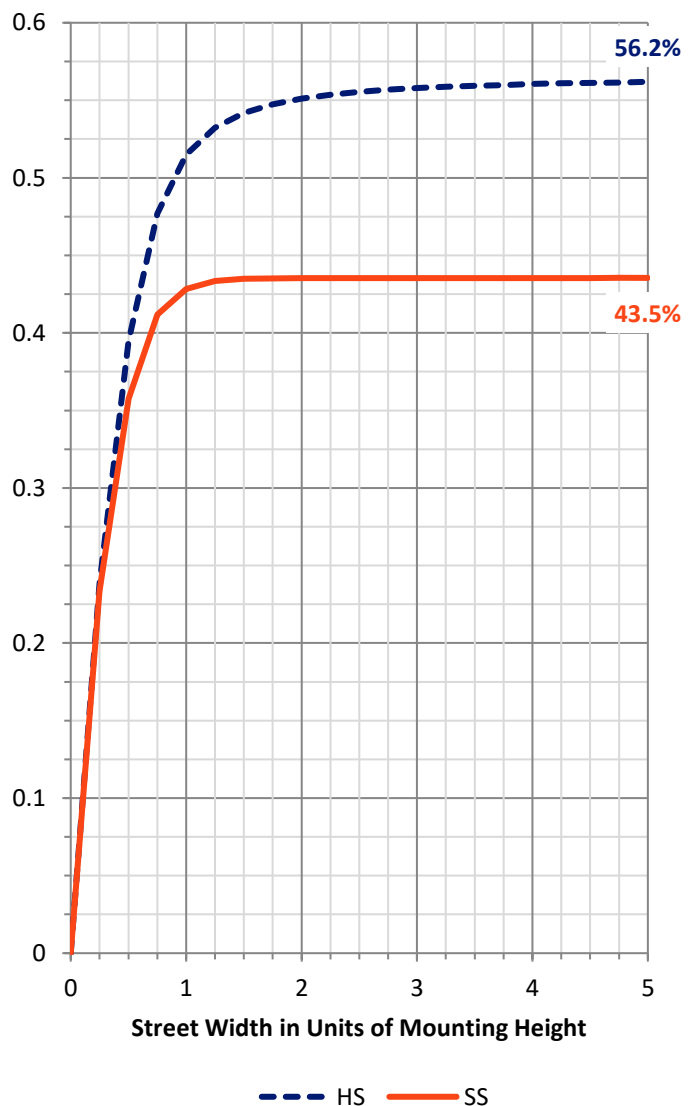
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7654.4	0.0	7654.4
	% Fixture	56.7	0.0	56.7
Street Side	Lumens	5835.0	0.0	5835.0
	% Fixture	43.3	0.0	43.3
Total	Lumens	13489.4	0.0	13489.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1463.4	10.8
10°-20°	3488.5	25.9
20°-30°	3553.0	26.3
30°-40°	2649.5	19.6
40°-50°	1384.1	10.3
50°-60°	582.2	4.3
60°-70°	237.8	1.8
70°-80°	100.1	0.7
80°-90°	30.8	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°	13489.4	100.0
0°-180°	13489.4	100.0



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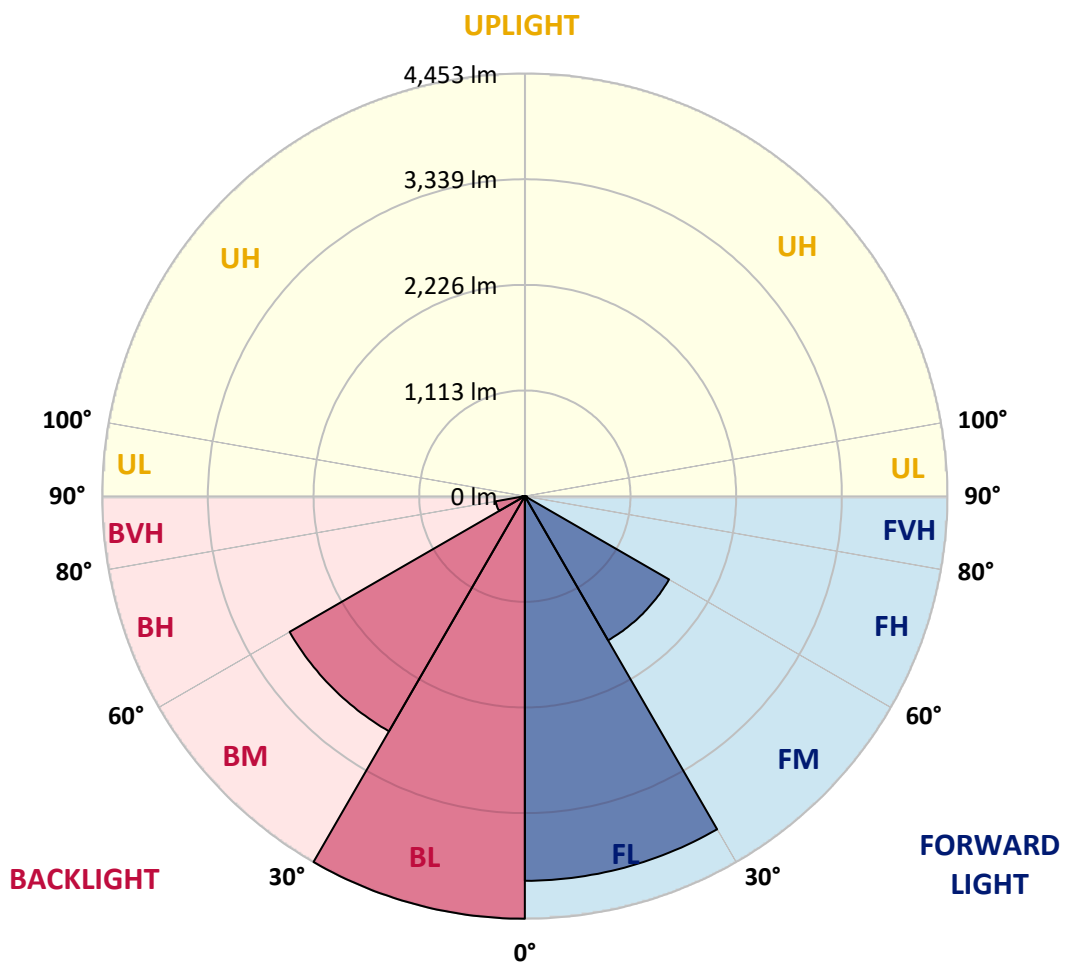
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4052.4	30.0			
FM (30°-60°)	1754.3	13.0			
FH (60°-80°)	25.4	0.2			G0/660
FVH (80°-90°)	2.9	0.0			G0/10
BL (0°-30°)	4452.6	33.0	B4/5000		
BM (30°-60°)	2861.4	21.2	B3/5000		
BH (60°-80°)	312.4	2.3	B1/500		G1/500
BVH (80°-90°)	28.0	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°	16116.6	16116.6	16116.6	16116.6	16116.6	16116.6	16116.6	16116.6	16116.6	16116.6
2.5°	16118.3	16052.5	15958.9	15950.3	15998.8	16104.5	16036.9	16040.4	15998.8	16069.8
5°	15865.4	15803.0	15738.9	15654.0	15725.0	15770.0	15735.4	15697.3	15643.6	15712.9
7.5°	15387.1	15352.4	15257.1	15219.0	15262.3	15312.6	15238.1	15227.7	15153.2	15243.3
10°	14655.9	14642.0	14548.4	14525.9	14564.0	14640.3	14607.4	14600.4	14553.6	14545.0
12.5°	13896.9	13843.2	13727.1	13720.2	13777.3	13891.7	13803.3	13718.4	13744.4	13767.0
15°	11942.3	11885.2	12172.8	12625.0	12862.4	12853.8	12879.8	12777.5	12746.3	12756.7
17.5°	9493.9	9396.9	9500.8	10200.9	11328.9	11983.9	11803.7	11583.6	11465.8	11387.8
20°	8194.3	8199.5	8180.5	8360.7	9064.2	10557.8	10514.5	10090.0	9935.8	9871.7
22.5°	7404.2	7374.7	7333.1	7390.3	7579.2	8456.0	9043.4	8653.5	8599.8	8528.8
25°	6629.6	6629.6	6579.4	6636.6	6690.3	6702.4	7291.5	7451.0	7347.0	7347.0
27.5°	5959.0	5924.4	5901.9	5927.8	5856.8	5515.4	5590.0	6406.1	6335.1	6291.7
30°	5293.6	5283.3	5245.1	5279.8	5016.4	4631.7	4475.8	5406.3	5480.8	5465.2
32.5°	4370.1	4411.7	4581.5	4635.2	4184.7	3874.5	3725.5	4487.9	4785.9	4773.8
35°	2970.0	3004.6	3198.7	3839.8	3469.0	3247.2	3203.9	3569.5	4059.9	4106.7
37.5°	2365.2	2360.0	2415.5	2529.9	2788.0	2734.3	2722.2	2817.5	3311.3	3332.1
40°	1949.4	1942.4	1940.7	1847.1	1783.0	2273.4	2240.5	2183.3	2611.3	2652.9
42.5°	1571.6	1578.6	1583.8	1379.3	1285.7	1753.6	1734.5	1675.6	2048.1	2096.7
45°	1233.7	1232.0	1242.4	1027.5	1001.5	1121.1	1296.1	1249.3	1545.6	1597.6
47.5°	639.4	661.9	802.3	795.3	807.5	795.3	980.8	968.6	1162.7	1245.9
50°	429.7	436.7	448.8	450.5	635.9	585.7	665.4	753.8	814.4	942.6
52.5°	332.7	337.9	306.7	287.6	389.9	433.2	436.7	521.6	568.4	698.3
55°	185.4	207.9	223.5	225.3	214.9	320.6	318.8	386.4	422.8	509.4
57.5°	24.3	29.5	45.1	145.6	143.8	178.5	223.5	280.7	301.5	372.5
60°	1.7	3.5	5.2	22.5	95.3	104.0	152.5	175.0	209.7	261.7
62.5°	0.0	0.0	1.7	5.2	19.1	60.6	79.7	91.8	123.0	171.5
65°	0.0	0.0	1.7	3.5	6.9	22.5	31.2	50.3	72.8	105.7
67.5°	0.0	0.0	1.7	3.5	5.2	8.7	13.9	22.5	38.1	64.1
70°	0.0	0.0	1.7	3.5	5.2	6.9	10.4	13.9	20.8	34.7
72.5°	0.0	0.0	1.7	1.7	3.5	8.7	8.7	10.4	13.9	19.1
75°	0.0	0.0	1.7	3.5	5.2	8.7	8.7	8.7	10.4	12.1
77.5°	0.0	0.0	1.7	3.5	5.2	8.7	6.9	8.7	8.7	8.7
80°	0.0	0.0	1.7	3.5	5.2	8.7	10.4	8.7	6.9	6.9
82.5°	0.0	0.0	1.7	5.2	5.2	12.1	12.1	12.1	5.2	5.2
85°	0.0	0.0	3.5	5.2	8.7	13.9	13.9	10.4	5.2	3.5
87.5°	0.0	0.0	1.7	3.5	3.5	6.9	10.4	8.7	3.5	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°
16116.6	0°	16116.6	16116.6	16116.6	16116.6	16116.6	16116.6	16116.6	16116.6	16116.6
15965.9	2.5°	16094.1	16050.8	16132.2	16142.6	16107.9	16064.6	15964.1	15955.5	15780.4
15612.4	5°	15789.1	15718.1	15770.0	15804.7	15792.6	15745.8	15704.2	15666.1	15508.4
15038.8	7.5°	15220.8	15194.8	15219.0	15245.0	15295.3	15245.0	15227.7	15187.8	15031.9
14473.9	10°	14590.0	14541.5	14633.3	14621.2	14607.4	14593.5	14520.7	14527.6	14344.0
13704.6	12.5°	13815.5	13734.0	13822.4	13832.8	13822.4	13773.9	13692.4	13727.1	13559.0
12664.9	15°	12774.1	12765.4	12829.5	12871.1	12900.6	12848.6	12820.9	12838.2	12737.7
11327.2	17.5°	11495.3	11607.9	11817.6	11888.6	11890.3	11944.1	11928.5	11907.7	11833.2
9845.7	20°	9991.2	10207.8	10530.1	10861.1	10956.4	10911.3	10890.5	10928.7	10817.8
8454.2	22.5°	8603.3	8788.7	9163.0	9646.4	9925.4	9953.1	9947.9	9915.0	9871.7
7340.1	25°	7425.0	7589.6	7948.3	8390.1	8925.6	9005.3	9008.7	8998.3	8960.2
6329.9	27.5°	6430.4	6629.6	6827.2	7222.2	7792.3	8121.5	8080.0	8067.8	8054.0
5477.3	30°	5529.3	5780.6	5966.0	6212.0	6723.2	7168.5	7211.8	7191.0	7158.1
4772.1	32.5°	4815.4	4964.4	5200.1	5366.4	5733.8	6238.0	6404.4	6388.8	6359.3
4136.2	35°	4195.1	4254.0	4439.4	4624.8	4869.1	5357.8	5603.8	5569.2	5564.0
3370.3	37.5°	3455.2	3652.7	3754.9	3942.1	4113.6	4493.1	4832.7	4817.1	4818.9
2710.1	40°	2789.8	2904.1	3106.9	3264.6	3422.2	3699.5	4077.2	4087.6	4084.2
2098.4	42.5°	2141.7	2252.6	2465.7	2637.3	2777.6	2949.2	3309.6	3321.7	3337.3
1634.0	45°	1672.1	1743.2	1899.1	2077.6	2226.6	2330.6	2604.4	2682.3	2684.1
1266.7	47.5°	1297.9	1379.3	1490.2	1661.7	1807.3	1881.8	2081.1	2186.8	2181.6
972.1	50°	1018.9	1093.4	1183.5	1318.6	1476.3	1535.2	1682.5	1786.5	1781.3
733.0	52.5°	779.8	875.1	954.8	1058.7	1212.9	1263.2	1368.9	1488.5	1471.1
537.2	55°	590.9	687.9	762.4	849.1	989.4	1053.5	1126.3	1221.6	1225.1
415.9	57.5°	445.3	545.8	613.4	701.8	807.5	878.5	934.0	1036.2	1034.5
284.2	60°	318.8	405.5	486.9	578.7	660.2	741.6	779.8	876.8	880.3
201.0	62.5°	230.5	311.9	389.9	469.6	542.4	622.1	656.7	733.0	743.4
131.7	65°	161.1	218.3	308.4	369.1	450.5	509.4	554.5	620.3	632.5
78.0	67.5°	104.0	157.7	244.3	298.0	372.5	422.8	469.6	521.6	537.2
50.3	70°	62.4	119.6	181.9	239.1	306.7	351.8	396.8	441.9	450.5
24.3	72.5°	39.9	83.2	131.7	194.1	246.1	294.6	334.4	367.3	341.4
15.6	75°	22.5	57.2	104.0	152.5	199.3	246.1	279.0	296.3	237.4
10.4	77.5°	13.9	41.6	84.9	123.0	154.2	197.5	218.3	228.7	169.8
6.9	80°	8.7	31.2	71.0	100.5	100.5	145.6	169.8	178.5	123.0
5.2	82.5°	6.9	22.5	55.4	76.2	67.6	109.2	133.4	135.2	86.6
3.5	85°	5.2	17.3	34.7	50.3	46.8	76.2	78.0	86.6	57.2
3.5	87.5°	3.5	10.4	20.8	29.5	26.0	36.4	41.6	46.8	31.2
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
16116.6
15643.6
15381.9
14999.0
14281.6
13510.5
12616.4
11722.3
10738.0
9788.5
8832.0
7972.5
7116.5
6281.3
5506.8
4763.4
4023.5
3285.4
2639.0
2162.5
1781.3
1472.9
1225.1
1031.0
871.6
739.9
629.0
535.4
443.6
317.1
225.3
159.4
114.4
79.7
52.0
27.7
0.0

(END OF REPORT)