

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: P638089

Luminaire Tested: **IFLD-M-SA4D-727-U-77-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P638089
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4D-727-U-77-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens and Visor
Light Source: (64) 2700K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20124 lumens
Efficiency: N/A
Efficacy: 80.6 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G2

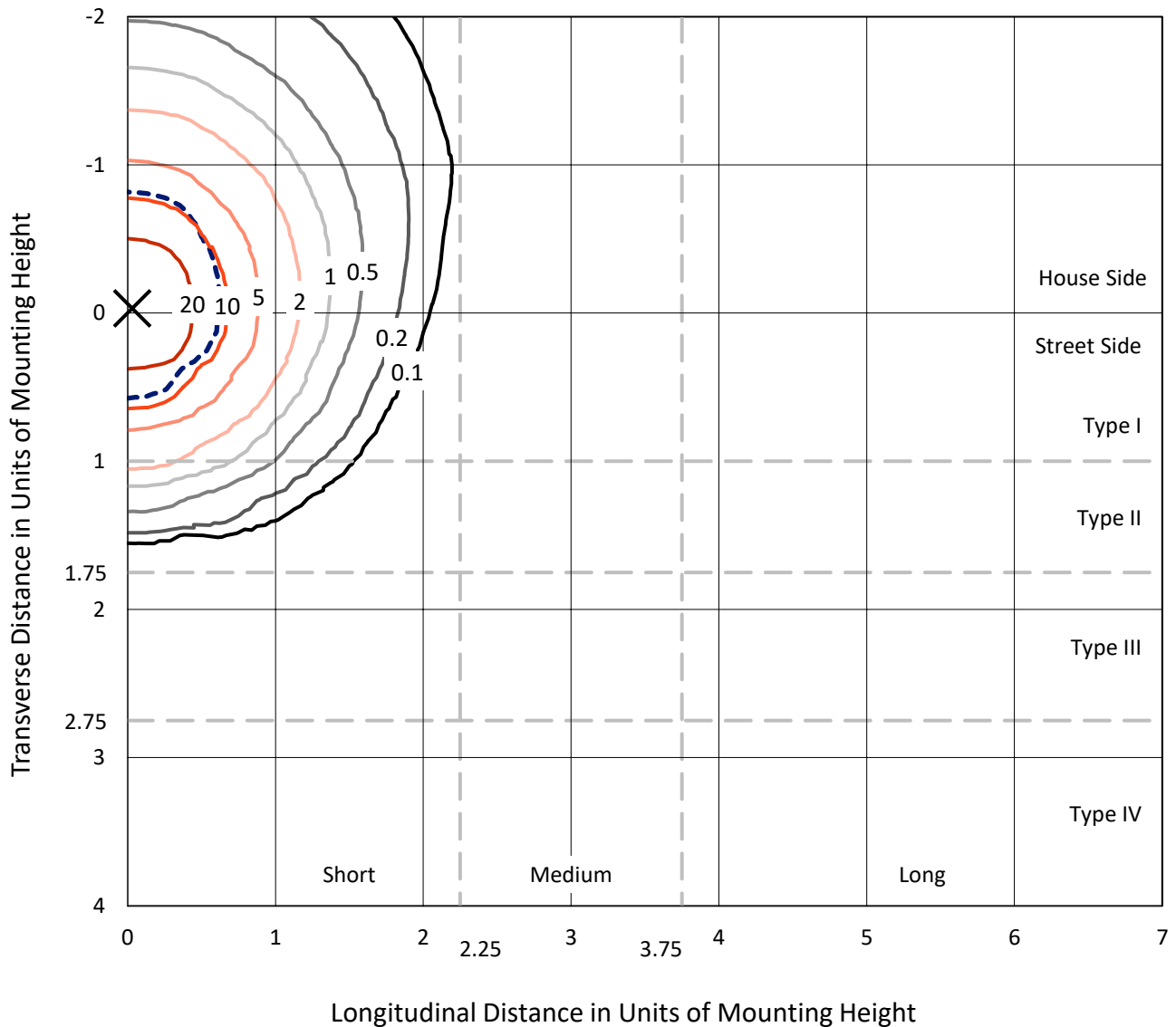
Input Watts (W): 249.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

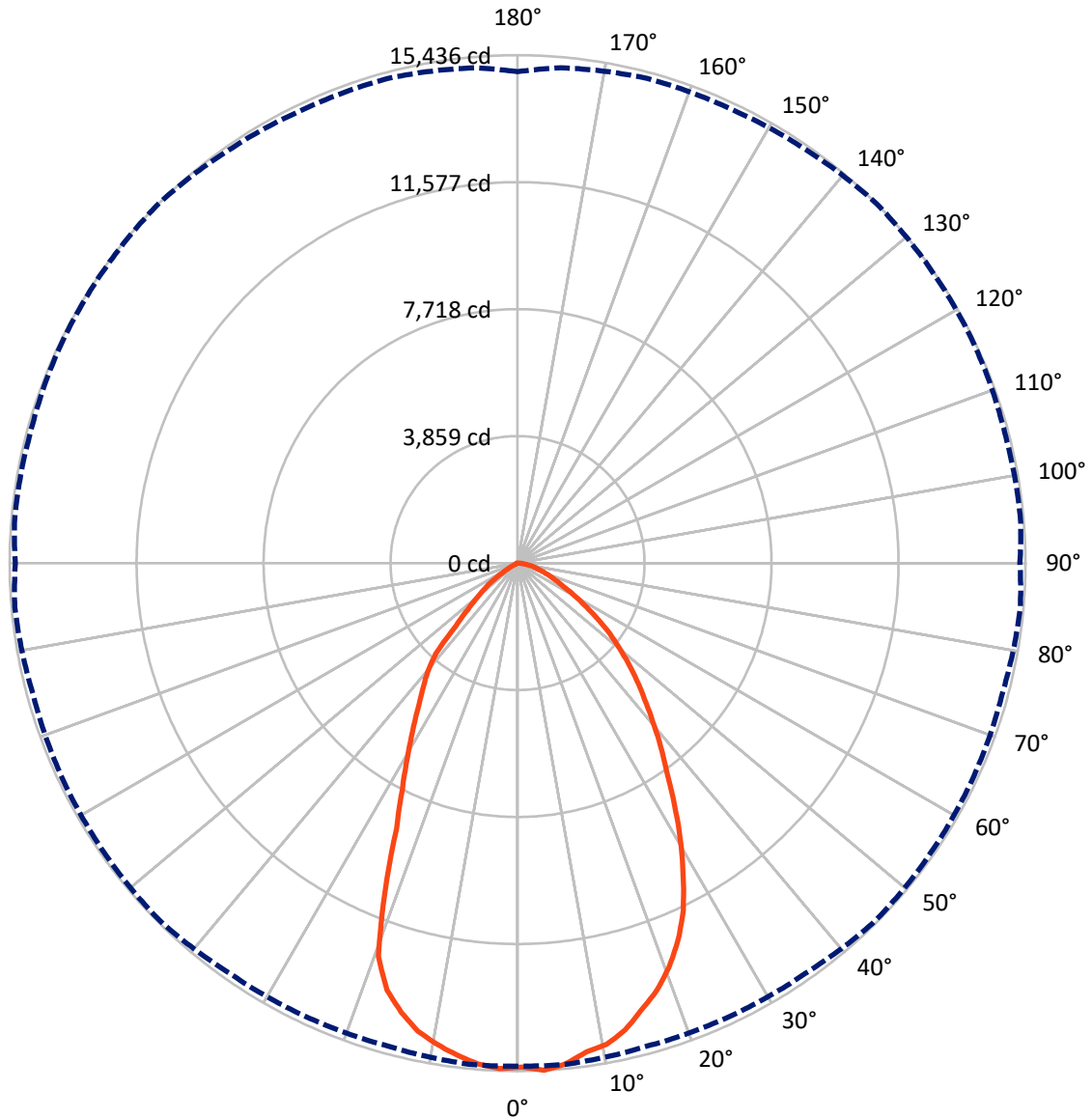
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 38.3 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 135-Deg Lateral - - - Horizontal Cone Through 2.5-Deg Vertical

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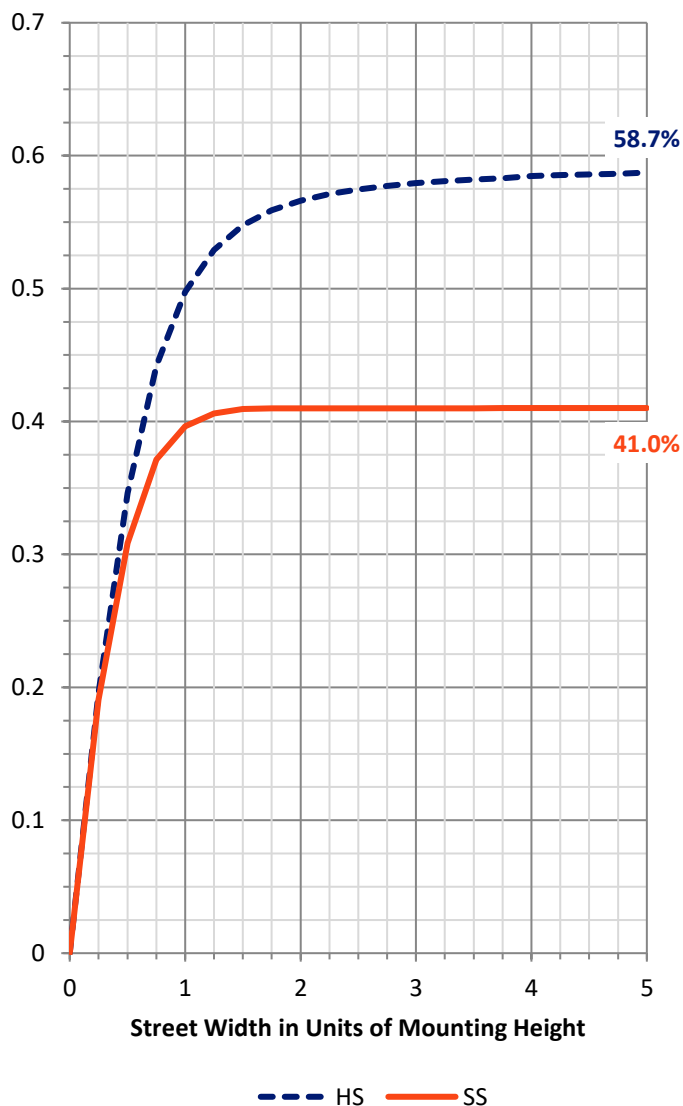
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11918.4	0.0	11918.4
	% Fixture	59.2	0.0	59.2
Street Side	Lumens	8205.5	0.0	8205.5
	% Fixture	40.8	0.0	40.8
Total	Lumens	20124.0	0.0	20124.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1436.2	7.1
10°-20°	3851.4	19.1
20°-30°	4696.9	23.3
30°-40°	4288.3	21.3
40°-50°	3099.0	15.4
50°-60°	1692.1	8.4
60°-70°	699.6	3.5
70°-80°	283.4	1.4
80°-90°	77.1	0.4
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°	20124.0	100.0
0°-180°	20124.0	100.0



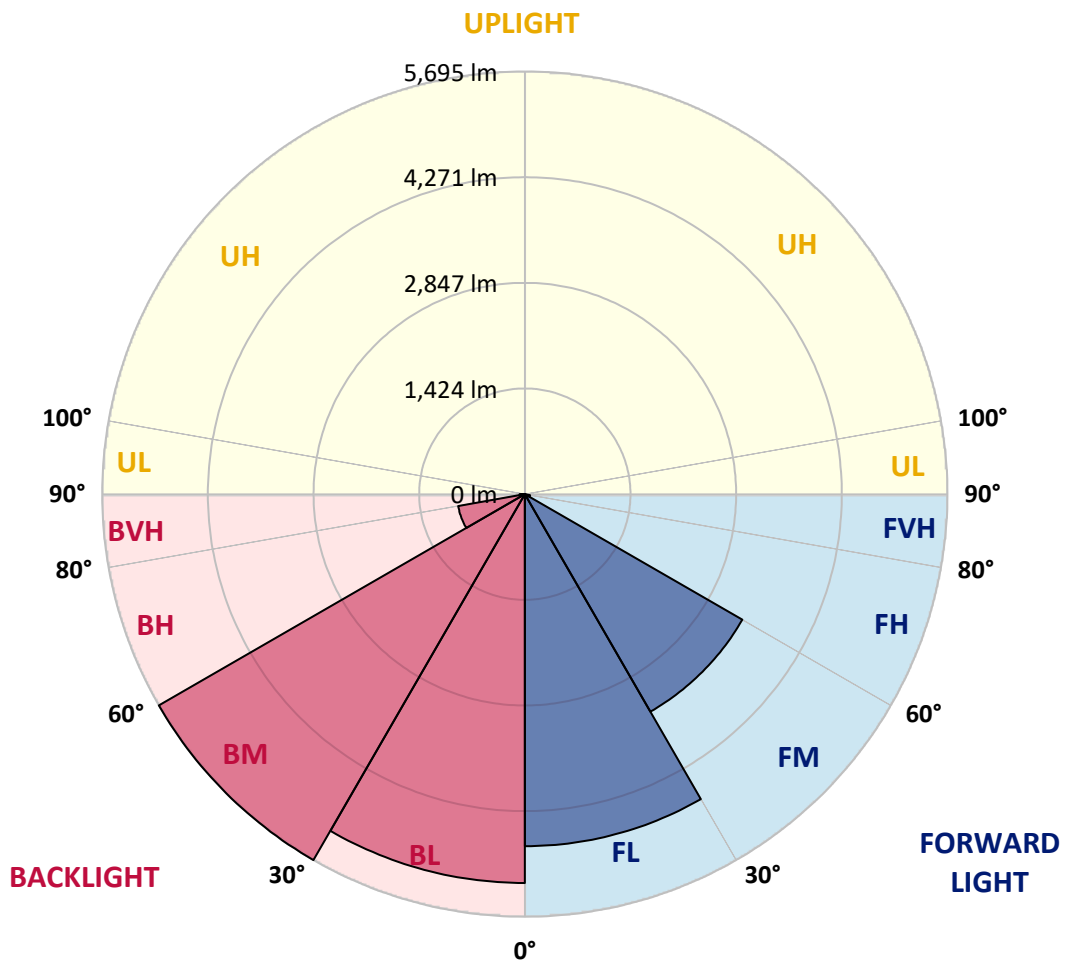
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4744.0	23.6			
FM (30°-60°)	3384.5	16.8			
FH (60°-80°)	70.9	0.4			G0/660
FVH (80°-90°)	6.2	0.0			G0/10
BL (0°-30°)	5240.6	26.0	B5		
BM (30°-60°)	5694.9	28.3	B4/8500		
BH (60°-80°)	912.1	4.5	B2/1000		G2/1000
BVH (80°-90°)	70.9	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G2

Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	15314.3	15314.3	15314.3	15314.3	15314.3	15314.3	15314.3	15314.3	15314.3	15314.3
2.5°	15285.9	15305.8	15198.1	15209.4	15229.3	15373.8	15337.0	15302.9	15254.8	15337.0
5°	15266.1	15277.4	15164.1	15124.4	15141.4	15271.8	15152.8	15152.8	15141.4	15127.2
7.5°	15113.1	15118.7	15030.9	14960.0	15005.4	15064.9	14977.1	15019.6	14957.2	15005.4
10°	14883.5	14846.7	14741.8	14722.0	14773.0	14829.7	14770.2	14809.9	14753.2	14790.0
12.5°	14546.3	14489.6	14404.6	14379.1	14467.0	14543.5	14495.3	14472.6	14398.9	14489.6
15°	13245.6	13203.0	13395.7	13733.0	14036.2	14101.4	14050.4	14073.0	13920.0	13945.5
17.5°	10901.9	10822.6	11029.5	11828.6	12967.8	13568.6	13523.3	13375.9	13149.2	13200.2
20°	9907.2	9884.6	9861.9	10051.8	10848.1	12670.3	12732.6	12358.5	12035.5	11964.6
22.5°	9346.1	9337.6	9315.0	9357.5	9567.2	10737.6	11451.7	11106.0	10890.6	10870.8
25°	8833.2	8819.0	8751.0	8804.9	8804.9	8872.9	9788.2	9997.9	9808.1	9785.4
27.5°	8311.8	8286.3	8274.9	8300.4	8170.1	7711.0	7943.4	8966.4	8867.2	8872.9
30°	7747.8	7739.3	7708.2	7762.0	7359.6	6790.0	6642.6	8031.2	8051.1	8045.4
32.5°	6909.0	6945.8	7087.5	7147.0	6483.9	6013.5	5766.9	6948.7	7353.9	7345.4
35°	5018.8	5018.8	5480.7	6339.4	5681.9	5327.7	5194.5	5891.6	6665.3	6693.6
37.5°	4126.1	4140.3	4231.0	4622.1	4902.6	4777.9	4738.2	4959.3	5781.1	5826.5
40°	3712.4	3712.4	3712.4	3550.9	3542.3	4304.7	4282.0	4211.1	4993.3	5092.5
42.5°	3335.5	3344.0	3349.6	2941.6	2714.9	3720.9	3669.9	3562.2	4287.7	4403.8
45°	2947.2	2961.4	2978.4	2459.8	2360.6	2678.0	3105.9	2986.9	3590.5	3740.7
47.5°	1799.5	1822.2	2207.6	2085.7	2097.1	2065.9	2533.5	2513.7	2944.4	3156.9
50°	1215.7	1224.2	1261.1	1323.4	1799.5	1623.8	1793.8	2080.1	2235.9	2559.0
52.5°	1020.2	1034.4	943.7	858.7	1181.7	1269.6	1252.6	1544.5	1606.8	2006.4
55°	717.0	762.3	719.8	711.3	671.6	986.2	949.3	1187.4	1227.1	1524.6
57.5°	73.7	85.0	147.4	529.9	439.3	558.3	677.3	870.0	909.7	1125.1
60°	5.7	5.7	14.2	73.7	320.2	334.4	467.6	535.6	612.1	785.0
62.5°	0.0	2.8	5.7	11.3	51.0	178.5	235.2	280.6	368.4	507.3
65°	0.0	0.0	2.8	8.5	11.3	68.0	90.7	147.4	201.2	314.6
67.5°	0.0	0.0	2.8	5.7	8.5	17.0	31.2	53.8	107.7	178.5
70°	0.0	0.0	2.8	5.7	8.5	14.2	22.7	34.0	48.2	96.4
72.5°	0.0	0.0	2.8	2.8	5.7	14.2	17.0	22.7	34.0	48.2
75°	0.0	0.0	2.8	2.8	8.5	17.0	14.2	17.0	22.7	31.2
77.5°	0.0	0.0	2.8	5.7	8.5	17.0	14.2	17.0	17.0	19.8
80°	0.0	0.0	2.8	5.7	11.3	19.8	17.0	17.0	14.2	14.2
82.5°	0.0	0.0	2.8	8.5	11.3	25.5	25.5	22.7	11.3	8.5
85°	0.0	0.0	5.7	11.3	17.0	28.3	28.3	22.7	8.5	5.7
87.5°	0.0	0.0	5.7	8.5	14.2	19.8	28.3	22.7	8.5	2.8
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°
15314.3	0°	15314.3	15314.3	15314.3	15314.3	15314.3	15314.3	15314.3	15314.3	15314.3
15266.1	2.5°	15342.6	15325.6	15382.3	15405.0	15436.1	15317.1	15243.4	15246.3	15110.2
15093.2	5°	15183.9	15186.8	15260.4	15254.8	15285.9	15220.8	15192.4	15144.3	15025.2
14875.0	7.5°	14982.7	14957.2	15028.1	15081.9	15002.6	15047.9	14982.7	15005.4	14934.5
14682.3	10°	14826.9	14767.3	14832.5	14869.4	14872.2	14826.9	14764.5	14705.0	14679.5
14381.9	12.5°	14481.1	14404.6	14515.1	14566.1	14557.6	14469.8	14398.9	14413.1	14330.9
13854.8	15°	14005.0	14007.9	14087.2	14135.4	14090.0	14070.2	14075.9	14041.9	13971.0
13126.5	17.5°	13276.7	13319.2	13528.9	13645.1	13670.6	13631.0	13611.1	13571.4	13500.6
11964.6	20°	12063.8	12318.9	12692.9	13052.8	13123.7	13112.4	13041.5	13024.5	12984.8
10814.1	22.5°	10998.3	11188.2	11621.7	12182.8	12471.9	12500.2	12415.2	12389.7	12347.2
9785.4	25°	9895.9	10099.9	10491.0	11100.3	11698.3	11820.1	11805.9	11729.4	11684.1
8872.9	27.5°	8966.4	9170.4	9524.7	10074.4	10714.9	11106.0	11142.8	11021.0	11018.1
8059.6	30°	8127.6	8408.1	8677.3	9125.1	9745.7	10332.3	10394.7	10309.7	10318.2
7314.2	32.5°	7470.1	7702.5	7932.0	8232.4	8748.2	9431.1	9674.9	9595.5	9564.3
6693.6	35°	6798.5	6957.2	7192.4	7467.3	7818.7	8496.0	8918.2	8858.7	8827.5
5854.8	37.5°	6033.3	6305.4	6475.4	6784.3	7059.2	7597.6	8192.7	8184.2	8119.1
5140.7	40°	5248.3	5534.6	5792.4	6104.2	6316.7	6744.6	7404.9	7402.1	7410.6
4401.0	42.5°	4537.0	4800.6	5112.3	5452.4	5656.4	5968.1	6676.6	6716.3	6764.5
3791.7	45°	3893.7	4131.8	4420.9	4834.6	5081.1	5259.7	5888.8	6070.2	6067.3
3247.6	47.5°	3315.6	3539.5	3783.2	4185.6	4500.2	4661.7	5183.2	5441.0	5424.0
2663.8	50°	2782.9	2981.2	3236.3	3528.2	3950.4	4092.1	4480.4	4820.4	4794.9
2122.6	52.5°	2238.8	2513.7	2729.0	2995.4	3440.3	3579.2	3879.6	4211.1	4191.3
1592.6	55°	1745.7	2012.1	2272.8	2502.3	2876.4	3083.3	3298.6	3638.7	3633.0
1246.9	57.5°	1320.6	1612.5	1859.0	2077.2	2374.8	2629.8	2802.7	3111.6	3151.3
853.0	60°	977.7	1201.6	1467.9	1711.7	1946.9	2210.4	2326.6	2629.8	2646.8
583.8	62.5°	666.0	912.5	1173.2	1394.3	1570.0	1842.0	1946.9	2196.3	2227.4
374.1	65°	461.9	620.6	918.2	1076.9	1292.2	1524.6	1629.5	1827.9	1890.2
215.4	67.5°	306.1	442.1	717.0	861.5	1074.0	1232.7	1365.9	1527.5	1595.5
136.0	70°	167.2	325.9	512.9	680.1	864.3	1017.4	1147.7	1278.1	1337.6
62.3	72.5°	113.4	218.2	357.1	538.4	697.1	847.3	963.5	1059.9	1062.7
36.8	75°	56.7	147.4	272.1	416.6	544.1	691.5	796.3	853.0	785.0
22.7	77.5°	34.0	107.7	221.0	334.4	442.1	558.3	617.8	649.0	538.4
17.0	80°	19.8	76.5	172.9	266.4	306.1	410.9	467.6	476.1	359.9
11.3	82.5°	14.2	56.7	136.0	195.5	187.0	289.1	351.4	340.1	229.5
8.5	85°	8.5	39.7	85.0	121.9	113.4	189.9	204.0	209.7	133.2
5.7	87.5°	5.7	22.7	45.3	65.2	53.8	82.2	82.2	99.2	65.2
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
15314.3
14934.5
14996.9
14815.5
14566.1
14260.1
13900.2
13469.4
12894.2
12335.9
11635.9
11012.5
10275.6
9567.2
8785.0
8172.9
7410.6
6739.0
6073.0
5429.7
4817.6
4233.8
3647.2
3134.3
2672.3
2233.1
1876.0
1587.0
1314.9
1037.2
734.0
518.6
337.2
212.5
121.9
56.7
0.0

(END OF REPORT)