

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: P636675

Luminaire Tested: **IFLD-L-SA8A-940-U-66-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P636675
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8A-940-U-66-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 6 distribution lens and Visor
Light Source: (128) 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19709.1 lumens
Efficiency: N/A
Efficacy: 79.5 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G1

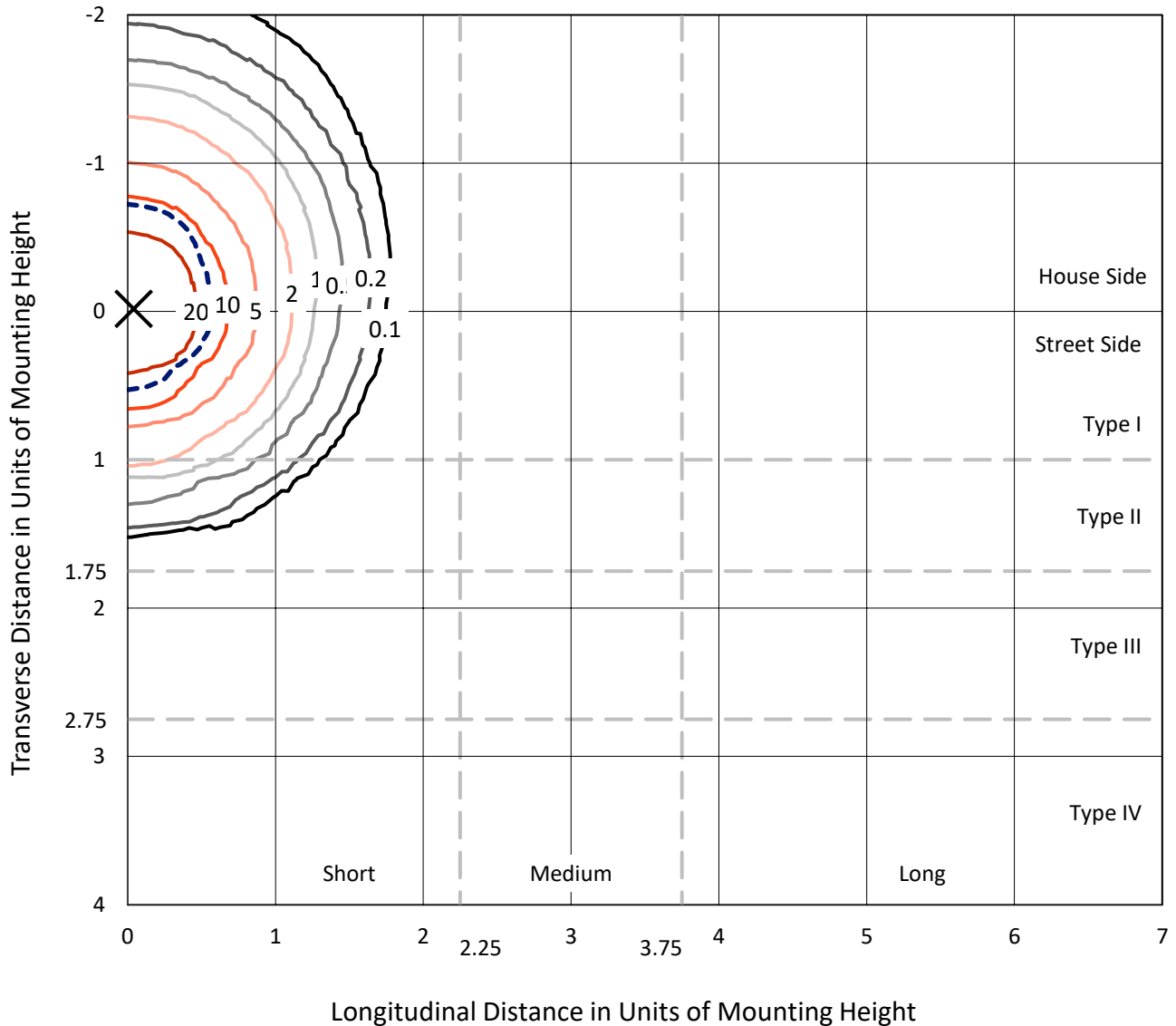
Input Watts (W): 247.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

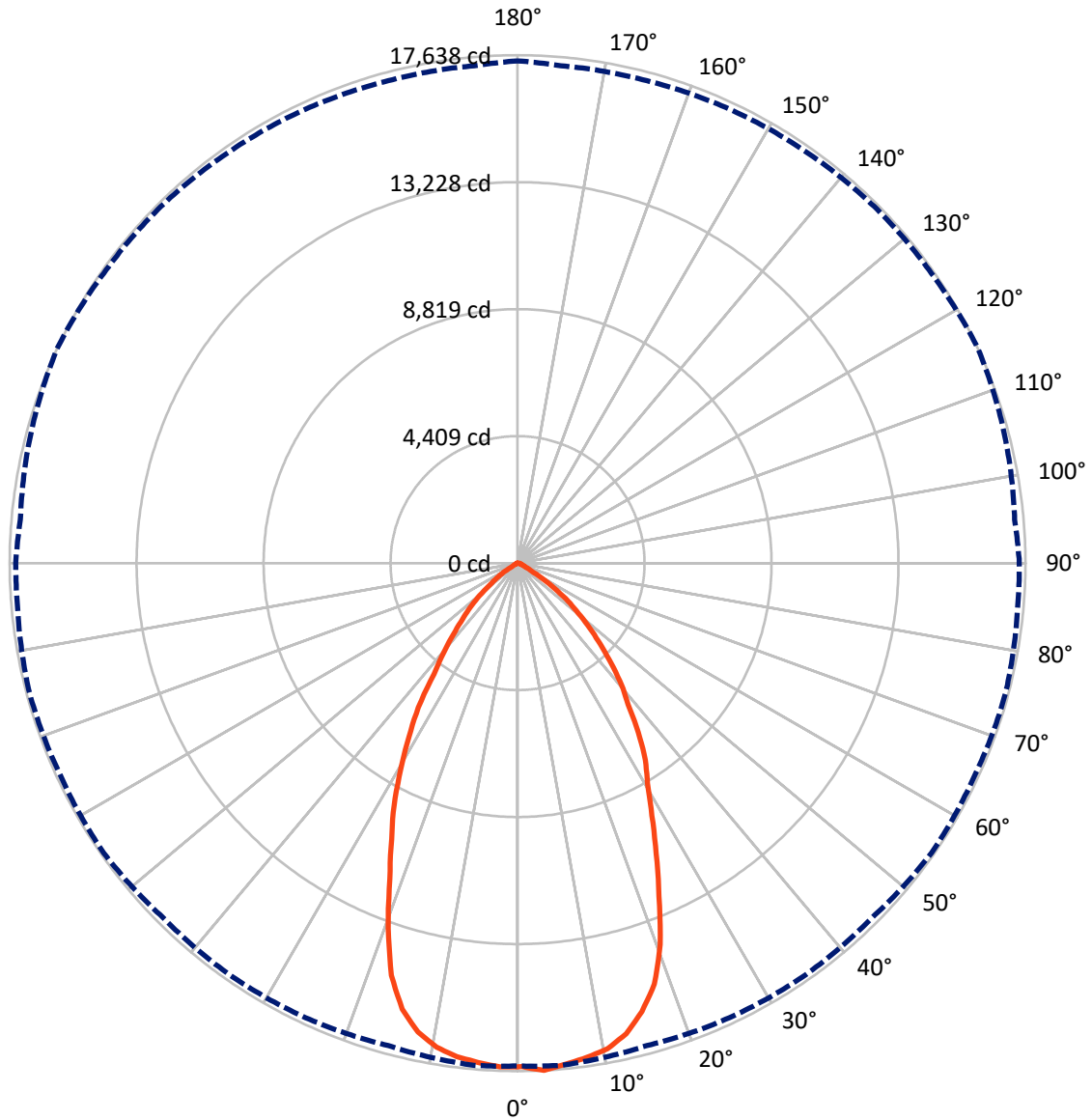
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 43.7 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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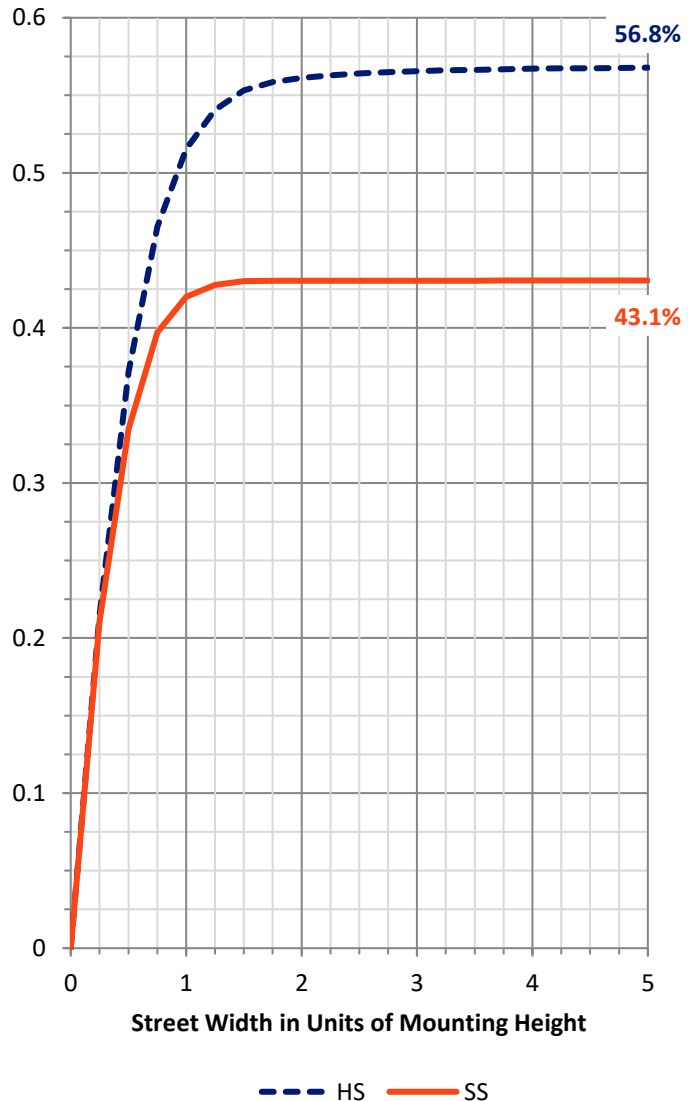
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11279.2	0.0	11279.2
	% Fixture	57.2	0.0	57.2
Street Side	Lumens	8429.8	0.0	8429.8
	% Fixture	42.8	0.0	42.8
Total	Lumens	19709.1	0.0	19709.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1647.0	8.4
10°-20°	4367.1	22.2
20°-30°	4995.1	25.3
30°-40°	4280.6	21.7
40°-50°	2830.5	14.4
50°-60°	1235.1	6.3
60°-70°	242.7	1.2
70°-80°	87.6	0.4
80°-90°	23.3	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°	19709.1	100.0
0°-180°	19709.1	100.0



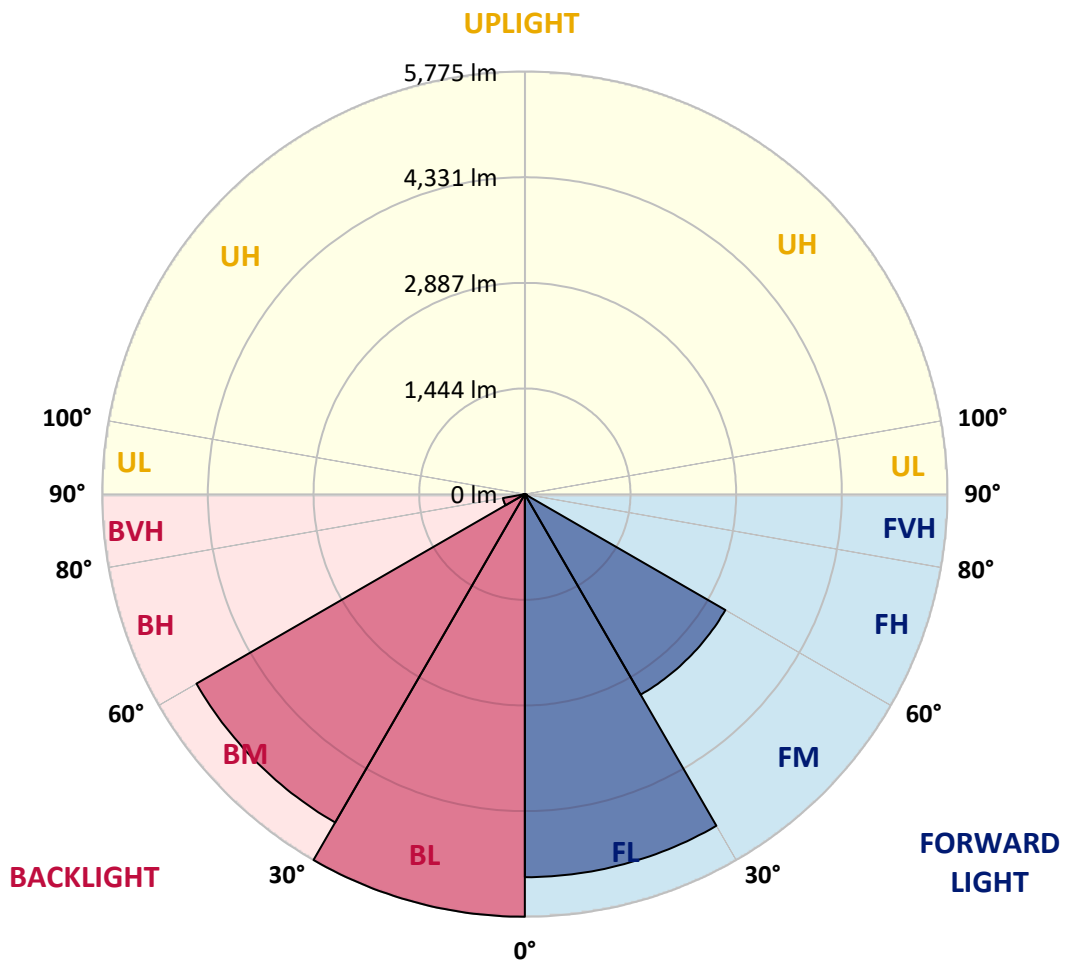
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5234.3	26.6			
FM (30°-60°)	3164.8	16.1			
FH (60°-80°)	26.8	0.1			G0/660
FVH (80°-90°)	3.9	0.0			G0/10
BL (0°-30°)	5774.9	29.3	B5		
BM (30°-60°)	5181.4	26.3	B4/8500		
BH (60°-80°)	303.4	1.5	B1/500		G1/500
BVH (80°-90°)	19.4	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°	17486.9	17486.9	17486.9	17486.9	17486.9	17486.9	17486.9	17486.9	17486.9	17486.9
2.5°	17461.7	17503.6	17344.4	17415.7	17445.0	17407.3	17545.5	17503.6	17537.2	17432.4
5°	17461.7	17503.6	17319.3	17352.8	17361.2	17290.0	17440.8	17390.5	17394.7	17285.8
7.5°	17352.8	17403.1	17235.5	17260.6	17264.8	17206.2	17336.1	17264.8	17239.7	17126.6
10°	17059.6	17088.9	16938.1	17000.9	17059.6	17005.1	17118.2	17038.6	17038.6	16938.1
12.5°	16594.5	16649.0	16481.4	16556.8	16607.1	16544.2	16674.1	16644.8	16649.0	16548.4
15°	15748.2	15559.7	15760.8	15911.6	15915.8	15903.3	16024.8	15995.4	16016.4	15865.6
17.5°	11634.2	11588.1	11822.7	13603.2	14927.1	15107.3	15128.2	14969.0	14897.8	14751.2
20°	10779.5	10813.0	10762.8	10771.1	11814.3	13980.3	13850.4	13456.6	13276.5	13129.8
22.5°	10155.3	10100.8	10067.3	10046.4	10075.7	11487.5	12421.8	11826.9	11730.5	11659.3
25°	9476.6	9451.5	9409.6	9401.2	9384.4	9145.6	10490.5	10544.9	10389.9	10301.9
27.5°	8844.0	8827.2	8781.1	8777.0	8584.2	8006.1	8152.7	9447.3	9405.4	9371.9
30°	8169.5	8136.0	8110.8	8110.8	7528.5	6933.6	6694.8	8236.5	8236.5	8207.2
32.5°	7436.3	7407.0	7415.4	7314.8	6619.4	6074.7	5697.7	7109.5	7549.4	7524.3
35°	4545.6	4537.2	5387.7	6506.3	5689.3	5195.0	5169.8	6083.1	6724.1	6791.1
37.5°	4047.0	4021.9	4034.5	4105.7	4872.4	4675.5	4667.1	4822.1	5722.8	5756.3
40°	3632.3	3615.5	3603.0	3347.4	3104.4	4172.7	4143.4	4042.8	4889.1	4947.8
42.5°	3238.5	3221.7	3221.7	2861.4	2467.6	3431.2	3443.8	3326.4	4122.4	4143.4
45°	2832.1	2819.5	2748.3	2283.3	2170.1	2279.1	2853.0	2719.0	3272.0	3489.8
47.5°	1336.4	1328.1	1923.0	1897.8	1889.5	1822.4	2178.5	2253.9	2597.5	2815.3
50°	1072.5	1064.1	1013.9	892.4	1554.3	1382.5	1571.1	1734.4	1843.4	2044.5
52.5°	888.2	879.8	775.1	687.1	863.0	1009.7	938.4	1160.5	1156.3	1374.1
55°	582.3	540.4	594.9	561.4	452.5	733.2	716.4	879.8	858.8	1047.4
57.5°	12.6	12.6	29.3	318.4	284.9	310.0	410.6	502.7	565.6	620.0
60°	4.2	4.2	8.4	16.8	117.3	129.9	159.2	184.3	259.7	322.6
62.5°	0.0	0.0	4.2	8.4	16.8	67.0	75.4	88.0	121.5	167.6
65°	0.0	0.0	0.0	4.2	8.4	16.8	25.1	54.5	75.4	96.4
67.5°	0.0	0.0	0.0	4.2	4.2	8.4	16.8	25.1	33.5	67.0
70°	0.0	0.0	0.0	4.2	4.2	8.4	12.6	16.8	25.1	33.5
72.5°	0.0	0.0	0.0	4.2	4.2	12.6	8.4	12.6	16.8	20.9
75°	0.0	0.0	0.0	4.2	4.2	4.2	8.4	12.6	12.6	16.8
77.5°	0.0	0.0	0.0	4.2	8.4	8.4	8.4	8.4	8.4	12.6
80°	0.0	0.0	0.0	4.2	4.2	8.4	12.6	16.8	8.4	8.4
82.5°	0.0	0.0	0.0	8.4	4.2	16.8	25.1	20.9	8.4	4.2
85°	0.0	0.0	0.0	4.2	16.8	20.9	20.9	12.6	4.2	4.2
87.5°	0.0	0.0	0.0	4.2	4.2	8.4	12.6	12.6	4.2	4.2
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°
17486.9	0°	17486.9	17486.9	17486.9	17486.9	17486.9	17486.9	17486.9	17486.9	17486.9
17424.0	2.5°	17327.7	17491.1	17637.7	17545.5	17512.0	17445.0	17394.7	17340.2	17336.1
17273.2	5°	17176.9	17331.9	17474.3	17365.4	17373.8	17340.2	17306.7	17294.2	17302.5
17118.2	7.5°	17047.0	17176.9	17331.9	17239.7	17264.8	17243.9	17227.1	17202.0	17239.7
16917.1	10°	16850.1	16967.4	17147.5	17059.6	17047.0	17026.0	17009.3	16963.2	16984.1
16552.6	12.5°	16418.6	16565.2	16770.5	16669.9	16703.4	16644.8	16619.7	16590.3	16594.5
15920.0	15°	15832.0	15945.2	16154.6	16075.0	16100.2	16062.5	16062.5	16062.5	16091.8
14772.1	17.5°	14809.8	15040.2	15371.2	15270.6	15308.4	15316.7	15308.4	15337.7	15375.4
13138.2	20°	13146.6	13540.4	14143.7	14340.6	14420.2	14424.4	14365.7	14436.9	14512.4
11609.0	22.5°	11617.4	12032.2	12564.2	13104.7	13439.8	13423.1	13431.5	13477.5	13557.1
10247.5	25°	10293.5	10691.5	11173.3	11655.1	12388.3	12539.1	12543.3	12585.2	12648.0
9317.4	27.5°	9338.3	9493.4	9933.3	10419.2	11206.9	11688.6	11663.5	11701.2	11768.2
8152.7	30°	8186.2	8781.1	8881.7	9179.1	9857.8	10741.8	10746.0	10787.9	10854.9
7465.6	32.5°	7444.7	7838.5	8148.5	8156.9	8735.1	9644.2	9824.3	9866.2	9912.3
6753.4	35°	6749.2	6795.3	7214.3	7331.6	7666.7	8567.5	8885.9	8911.0	8986.4
5743.8	37.5°	5840.1	6112.4	6229.8	6648.7	6665.5	7394.4	8027.0	8001.9	8060.6
4943.6	40°	5006.4	5266.2	5563.6	5869.5	5911.4	6456.0	7155.6	7180.8	7205.9
4101.5	42.5°	4135.0	4466.0	4771.8	4977.1	5262.0	5576.2	6242.3	6359.6	6418.3
3515.0	45°	3577.8	3670.0	4034.5	4336.1	4625.2	4771.8	5396.0	5609.7	5647.4
2781.8	47.5°	2819.5	3129.5	3376.7	3632.3	3992.6	4122.4	4574.9	4872.4	4901.7
2065.4	50°	2178.5	2400.6	2739.9	2970.3	3389.3	3460.5	3770.5	4156.0	4193.7
1382.5	52.5°	1558.5	1860.1	2191.1	2413.1	2815.3	2907.5	3137.9	3506.6	3531.7
1059.9	55°	1118.6	1315.5	1587.8	1906.2	2199.5	2404.8	2564.0	2915.9	2949.4
695.5	57.5°	762.5	946.8	1059.9	1378.3	1554.3	1776.3	1906.2	2174.3	2199.5
331.0	60°	364.5	452.5	540.4	699.6	812.8	1001.3	1085.1	1194.0	1223.3
201.1	62.5°	234.6	276.5	351.9	418.9	527.9	645.2	678.7	770.9	804.4
125.7	65°	155.0	196.9	276.5	293.3	402.2	494.4	536.3	603.3	641.0
75.4	67.5°	88.0	138.3	205.3	243.0	318.4	406.4	452.5	511.1	544.6
50.3	70°	58.7	113.1	163.4	201.1	251.4	326.8	385.4	435.7	456.7
25.1	72.5°	33.5	71.2	113.1	159.2	201.1	272.3	326.8	368.7	243.0
16.8	75°	20.9	54.5	96.4	134.1	167.6	217.9	263.9	259.7	108.9
12.6	77.5°	16.8	41.9	83.8	113.1	138.3	150.8	188.5	213.7	83.8
8.4	80°	12.6	33.5	75.4	96.4	54.5	108.9	146.6	159.2	58.7
8.4	82.5°	8.4	20.9	62.8	67.0	37.7	79.6	117.3	104.7	41.9
4.2	85°	4.2	12.6	20.9	37.7	33.5	37.7	29.3	41.9	29.3
4.2	87.5°	4.2	8.4	16.8	16.8	16.8	12.6	16.8	16.8	16.8
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
17486.9
17436.6
17407.3
17344.4
17084.7
16716.0
16104.4
15501.1
14562.6
13569.7
12757.0
11831.1
10972.2
10017.0
9066.0
8131.8
7285.5
6502.1
5739.6
4972.9
4248.1
3577.8
2978.7
2249.7
1256.8
812.8
641.0
540.4
452.5
196.9
108.9
83.8
62.8
41.9
29.3
16.8
0.0

(END OF REPORT)