

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: P637508

Luminaire Tested: **IFLD-M-SA4C-830-U-44-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637508
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4C-830-U-44-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 4 distribution lens and Visor
Light Source: (64) 3000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21789.4 lumens
Efficiency: N/A
Efficacy: 99.9 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

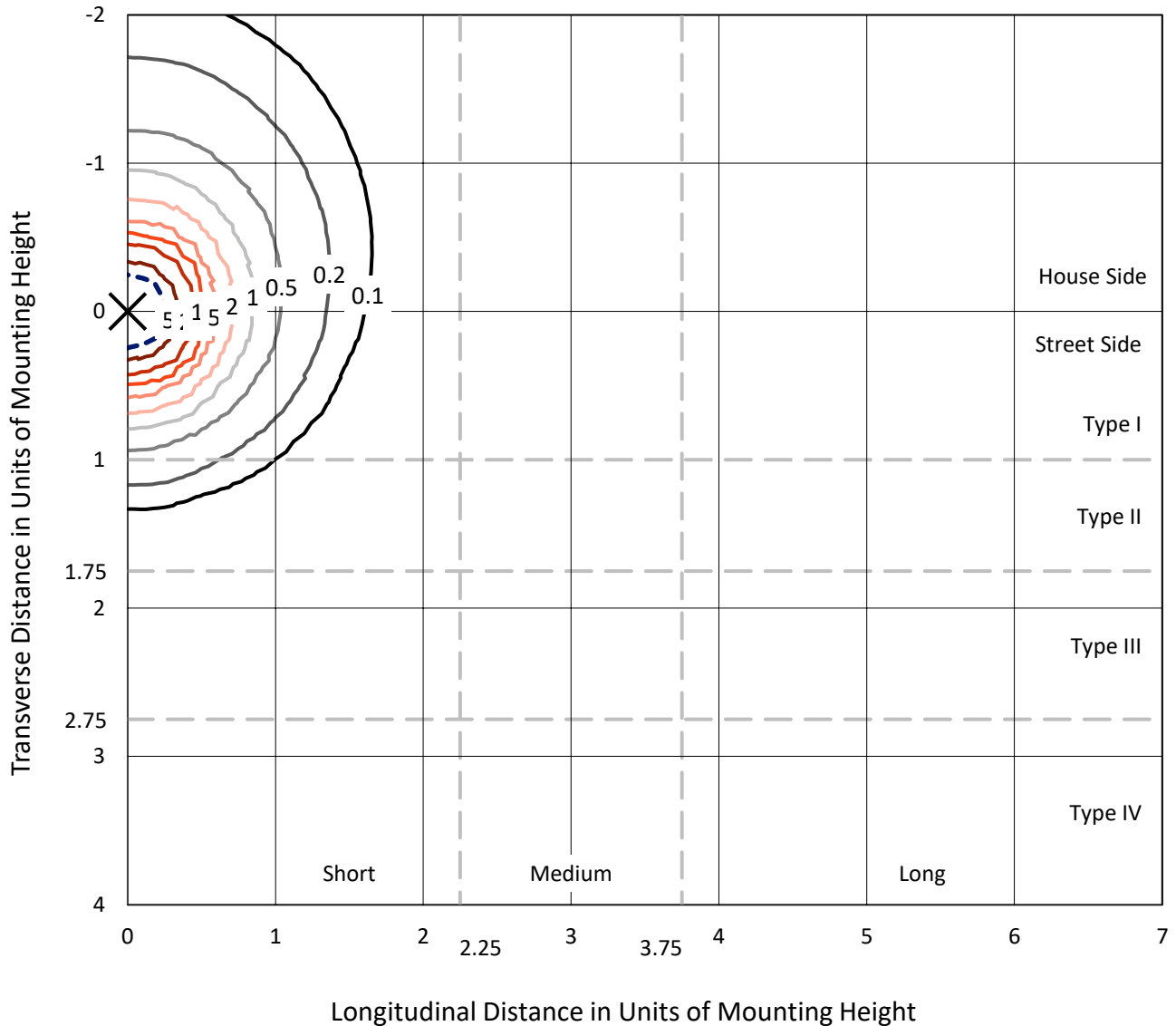
Input Watts (W): 218.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

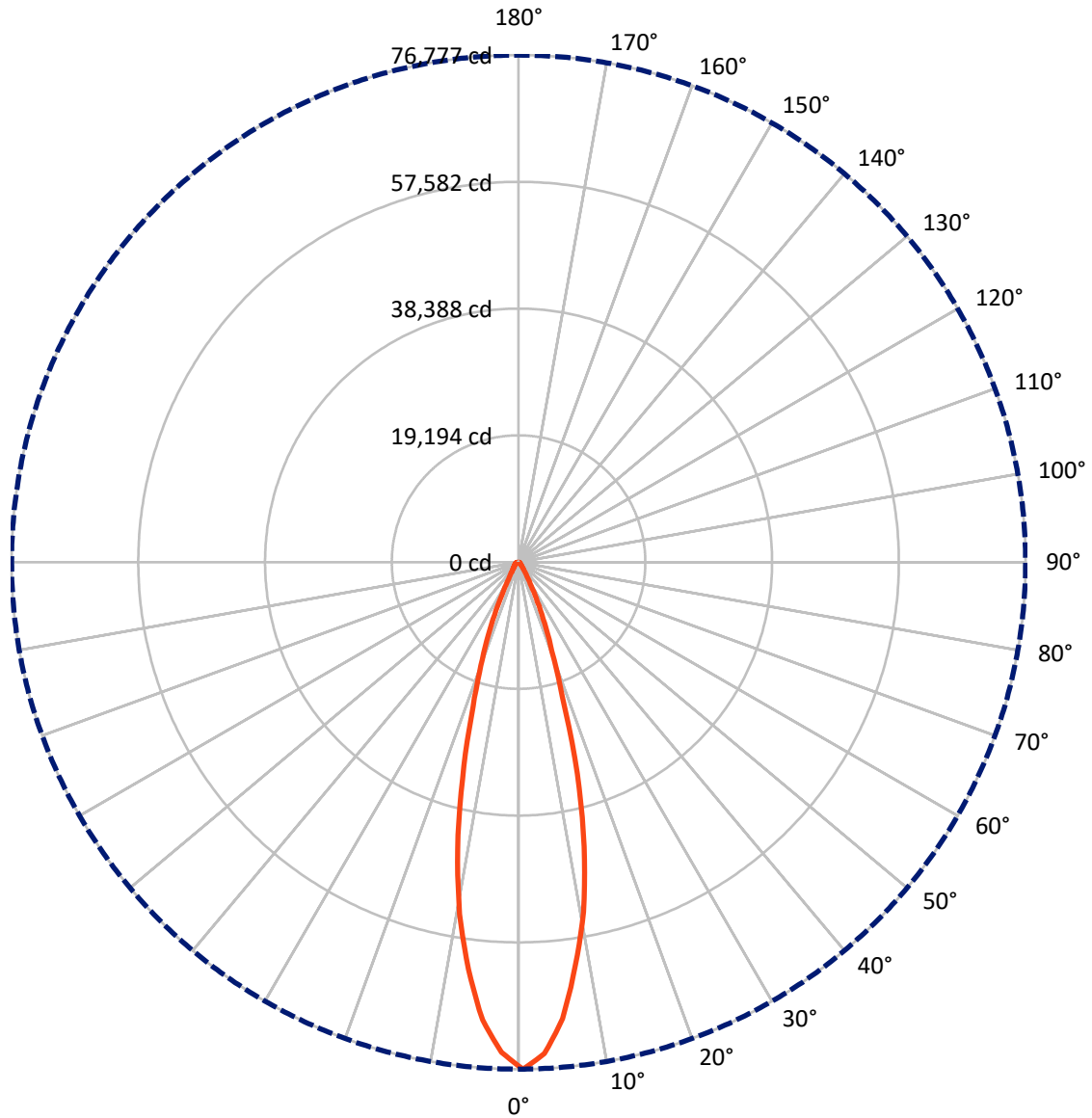
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 191.9 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 0-Deg Lateral - - - Horizontal Cone Through 0-Deg Vertical

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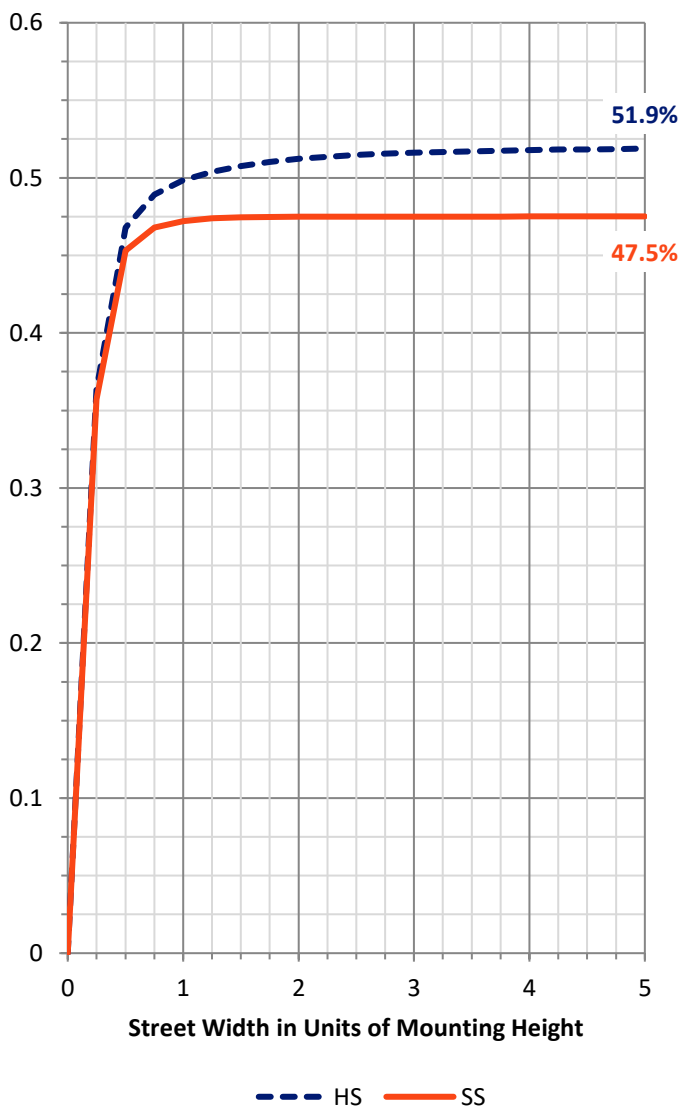
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11488.8	0.0	11488.8
	% Fixture	52.7	0.0	52.7
Street Side	Lumens	10300.5	0.0	10300.5
	% Fixture	47.3	0.0	47.3
Total	Lumens	21789.4	0.0	21789.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	6196.5	28.4
10°-20°	9384.6	43.1
20°-30°	3960.4	18.2
30°-40°	1032.9	4.7
40°-50°	522.4	2.4
50°-60°	341.5	1.6
60°-70°	204.6	0.9
70°-80°	107.6	0.5
80°-90°	38.9	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°	21789.4	100.0
0°-180°	21789.4	100.0



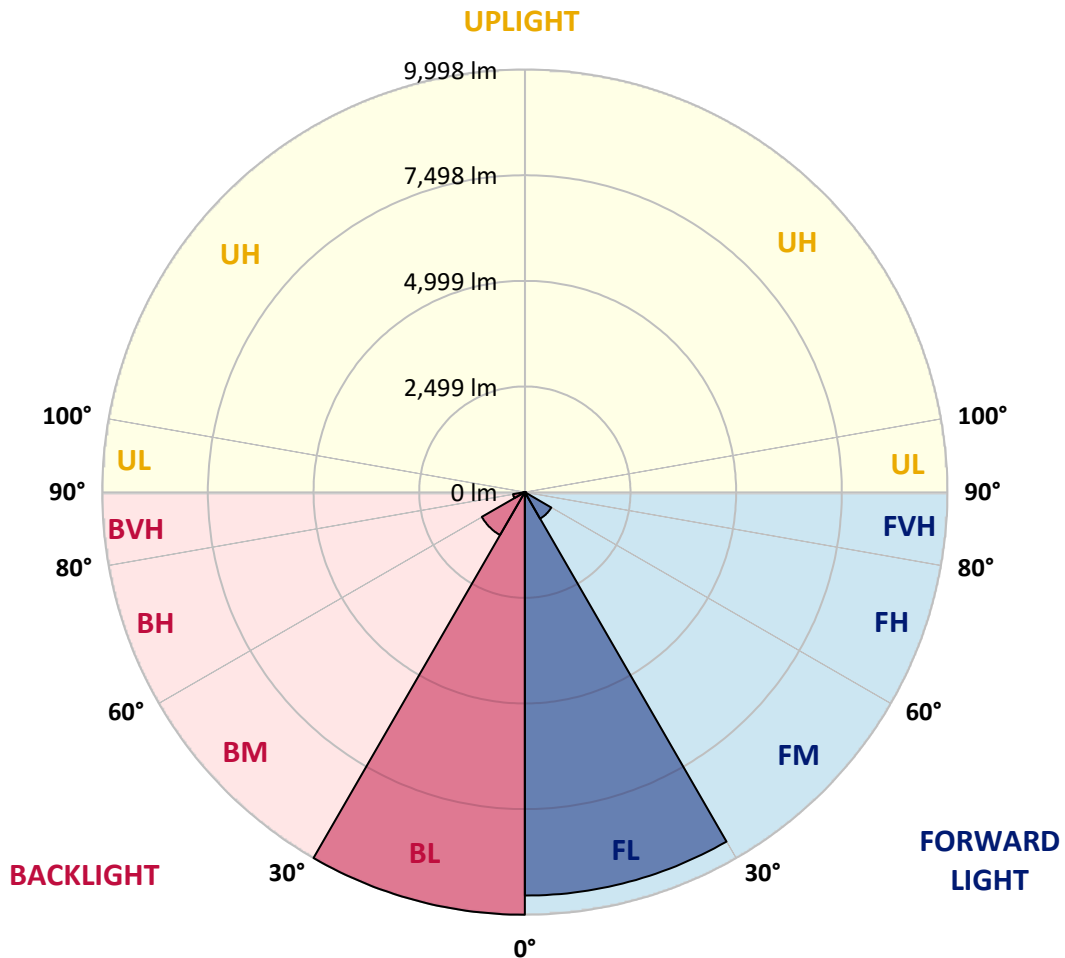
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	9543.6	43.8			
FM (30°-60°)	722.8	3.3			
FH (60°-80°)	29.4	0.1			G0/660
FVH (80°-90°)	4.7	0.0			G0/10
BL (0°-30°)	9997.9	45.9	B5		
BM (30°-60°)	1174.0	5.4	B2/2500		
BH (60°-80°)	282.8	1.3	B1/500		G0/660
BVH (80°-90°)	34.2	0.2			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 V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	76776.5	76776.5	76776.5	76776.5	76776.5	76776.5	76776.5	76776.5	76776.5	76776.5
2.5°	74540.0	74581.6	74427.4	74760.2	74500.8	75195.7	74850.7	75389.1	75208.0	75509.0
5°	69450.2	69381.7	69337.7	69854.0	69704.7	70451.0	69973.9	69817.3	70301.8	70213.7
7.5°	61764.3	61945.3	61842.6	61977.2	62053.0	62904.6	63173.7	62963.3	62970.6	63093.0
10°	53885.0	53618.3	53239.0	53491.0	54024.5	54396.4	54247.1	54555.5	54486.9	54778.1
12.5°	44190.0	44400.5	44187.6	43962.5	44894.8	44792.0	45051.4	45220.2	44796.9	45739.0
15°	33286.3	33396.4	33655.8	33638.7	34355.6	34500.0	34465.7	34644.4	34314.0	34470.6
17.5°	21384.2	21756.1	22453.5	23632.9	24959.2	25113.4	25074.2	24927.4	24768.3	24592.2
20°	14363.8	14324.6	14576.7	14921.7	17667.2	18394.0	18371.9	17911.9	17246.3	17119.1
22.5°	10062.0	10135.4	10101.1	10443.7	11011.4	13015.5	12768.4	12301.0	12083.2	11941.3
25°	6619.1	6592.2	6763.5	6866.2	7353.2	7597.9	8464.1	8290.4	7955.1	7991.8
27.5°	4035.1	4069.3	4133.0	4221.0	4566.1	4487.8	4982.1	5048.1	4940.5	4825.4
30°	2476.3	2500.8	2552.2	2615.8	2735.7	2650.1	2787.1	3024.5	2985.3	2904.6
32.5°	1681.1	1683.5	1720.2	1744.7	1730.0	1649.3	1693.3	1918.4	1923.3	1916.0
35°	1208.8	1208.8	1243.1	1262.6	1221.0	1155.0	1162.3	1301.8	1363.0	1375.2
37.5°	834.4	836.9	895.6	954.3	907.8	890.7	861.3	954.3	1052.2	1066.9
40°	633.8	631.3	660.7	704.7	709.6	677.8	687.6	746.3	846.7	858.9
42.5°	513.9	516.3	531.0	526.1	528.5	570.1	584.8	611.7	704.7	726.8
45°	433.1	435.6	442.9	418.4	408.6	472.3	491.8	506.5	584.8	611.7
47.5°	357.3	362.2	369.5	342.6	337.7	379.3	413.5	428.2	496.7	526.1
50°	256.9	261.8	288.7	274.1	288.7	298.5	345.0	367.0	413.5	452.7
52.5°	186.0	190.9	198.2	200.7	237.4	242.3	276.5	310.8	332.8	376.8
55°	146.8	151.7	146.8	141.9	173.7	200.7	212.9	249.6	266.7	318.1
57.5°	83.2	88.1	95.4	110.1	115.0	154.2	166.4	198.2	212.9	261.8
60°	14.7	17.1	26.9	66.1	80.8	97.9	124.8	151.7	171.3	205.5
62.5°	2.4	2.4	4.9	14.7	46.5	68.5	90.5	107.7	124.8	156.6
65°	0.0	0.0	2.4	4.9	12.2	39.2	48.9	63.6	85.6	112.6
67.5°	0.0	0.0	2.4	4.9	7.3	14.7	22.0	39.2	48.9	75.9
70°	0.0	0.0	2.4	4.9	7.3	9.8	12.2	17.1	29.4	46.5
72.5°	0.0	0.0	2.4	4.9	7.3	9.8	12.2	14.7	14.7	29.4
75°	0.0	0.0	2.4	4.9	7.3	12.2	14.7	14.7	12.2	12.2
77.5°	0.0	0.0	2.4	4.9	9.8	14.7	17.1	14.7	9.8	9.8
80°	0.0	0.0	4.9	7.3	12.2	17.1	22.0	17.1	9.8	4.9
82.5°	0.0	0.0	4.9	9.8	12.2	19.6	26.9	22.0	9.8	4.9
85°	0.0	0.0	2.4	7.3	14.7	19.6	26.9	19.6	9.8	2.4
87.5°	0.0	0.0	2.4	2.4	4.9	7.3	14.7	12.2	4.9	2.4
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°
76776.5	0°	76776.5	76776.5	76776.5	76776.5	76776.5	76776.5	76776.5	76776.5	76776.5
74938.8	2.5°	75369.5	75761.0	75841.8	75734.1	75890.7	75609.3	75394.0	74836.0	74500.8
70186.8	5°	70639.5	70580.7	70989.4	71124.0	71106.8	70891.5	70590.5	70252.8	69924.9
62855.6	7.5°	63247.1	63323.0	63694.9	63932.3	63812.4	63543.2	63335.2	63080.7	62860.5
54883.4	10°	55385.0	54863.8	55326.3	55326.3	55646.8	54885.8	54956.8	54315.7	54345.0
45721.9	12.5°	45878.5	46066.9	46142.7	46360.5	45986.1	45582.4	45088.1	44990.2	44684.3
34172.1	15°	34663.9	35202.3	34739.8	35530.2	35148.4	34727.6	34651.7	33893.1	34132.9
24785.5	17.5°	24663.1	25257.7	25443.7	25896.4	25548.9	25299.3	24983.7	24753.7	24736.5
17351.5	20°	17488.6	18085.6	18222.7	18765.9	18726.8	18648.4	18381.7	18090.5	17774.9
11811.6	22.5°	11990.2	12477.2	12932.3	13663.9	13651.7	13421.7	13394.8	12983.7	12991.0
7979.6	25°	8062.8	8417.6	8525.3	9274.1	9357.3	9332.8	9193.3	8811.6	8956.0
4874.4	27.5°	4879.3	5190.0	5554.6	5818.9	6068.5	6029.4	5889.9	5677.0	5584.0
2929.0	30°	3007.3	3146.8	3281.4	3599.5	3748.8	3827.1	3761.0	3562.8	3577.5
1928.2	32.5°	1969.8	2087.3	2185.2	2385.8	2464.1	2608.5	2581.6	2540.0	2491.0
1387.4	35°	1436.4	1522.0	1588.1	1681.1	1781.4	1903.8	1923.3	1906.2	1886.6
1071.8	37.5°	1096.2	1184.3	1260.2	1299.3	1377.7	1473.1	1526.9	1524.5	1509.8
873.6	40°	890.7	956.8	1025.3	1076.7	1130.5	1201.5	1267.5	1274.9	1274.9
734.1	42.5°	743.9	800.2	868.7	922.5	961.7	1027.7	1096.2	1101.1	1096.2
621.5	45°	636.2	685.2	751.2	814.8	846.7	895.6	961.7	976.3	966.6
533.4	47.5°	553.0	597.1	653.3	721.9	756.1	800.2	861.3	878.5	876.0
460.0	50°	474.7	526.1	582.4	638.7	682.7	724.3	783.0	802.6	795.3
391.5	52.5°	418.4	464.9	513.9	575.0	626.4	663.1	709.6	743.9	734.1
330.3	55°	349.9	406.2	457.6	509.0	572.6	611.7	655.8	697.4	687.6
279.0	57.5°	303.4	349.9	408.6	455.1	518.8	565.3	609.3	653.3	650.9
227.6	60°	254.5	303.4	359.7	408.6	467.4	518.8	562.8	611.7	616.6
171.3	62.5°	200.7	259.4	308.3	364.6	423.3	479.6	518.8	567.7	575.0
129.7	65°	151.7	212.9	266.7	320.6	379.3	440.5	474.7	516.3	523.7
95.4	67.5°	112.6	163.9	227.6	276.5	337.7	396.4	428.2	462.5	474.7
58.7	70°	85.6	124.8	190.9	237.4	301.0	347.5	381.7	411.1	420.9
39.2	72.5°	53.8	97.9	154.2	203.1	259.4	301.0	325.4	342.6	357.3
22.0	75°	36.7	75.9	124.8	173.7	215.3	247.1	269.2	283.8	296.1
9.8	77.5°	22.0	58.7	102.8	144.4	171.3	195.8	217.8	227.6	234.9
7.3	80°	12.2	44.0	85.6	117.5	134.6	151.7	168.8	181.1	186.0
4.9	82.5°	7.3	34.3	68.5	90.5	97.9	115.0	132.1	139.5	139.5
2.4	85°	4.9	24.5	46.5	66.1	71.0	83.2	88.1	93.0	97.9
2.4	87.5°	4.9	14.7	29.4	36.7	39.2	44.0	46.5	51.4	56.3
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
76776.5
74253.7
69557.9
62114.2
54058.7
44405.4
33893.1
24281.4
17637.8
12849.1
8728.4
5503.3
3513.9
2473.9
1879.3
1502.4
1260.2
1091.4
966.6
871.1
790.4
731.6
692.5
653.3
619.1
579.9
531.0
479.6
425.8
354.8
293.6
232.5
181.1
137.0
95.4
53.8
0.0

(END OF REPORT)