

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: P637495

Luminaire Tested: **IFLD-S-SA2E-830-U-44-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637495
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2E-830-U-44-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 4 distribution lens and Visor
Light Source: (32) 3000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13870.9 lumens
Efficiency: N/A
Efficacy: 88.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

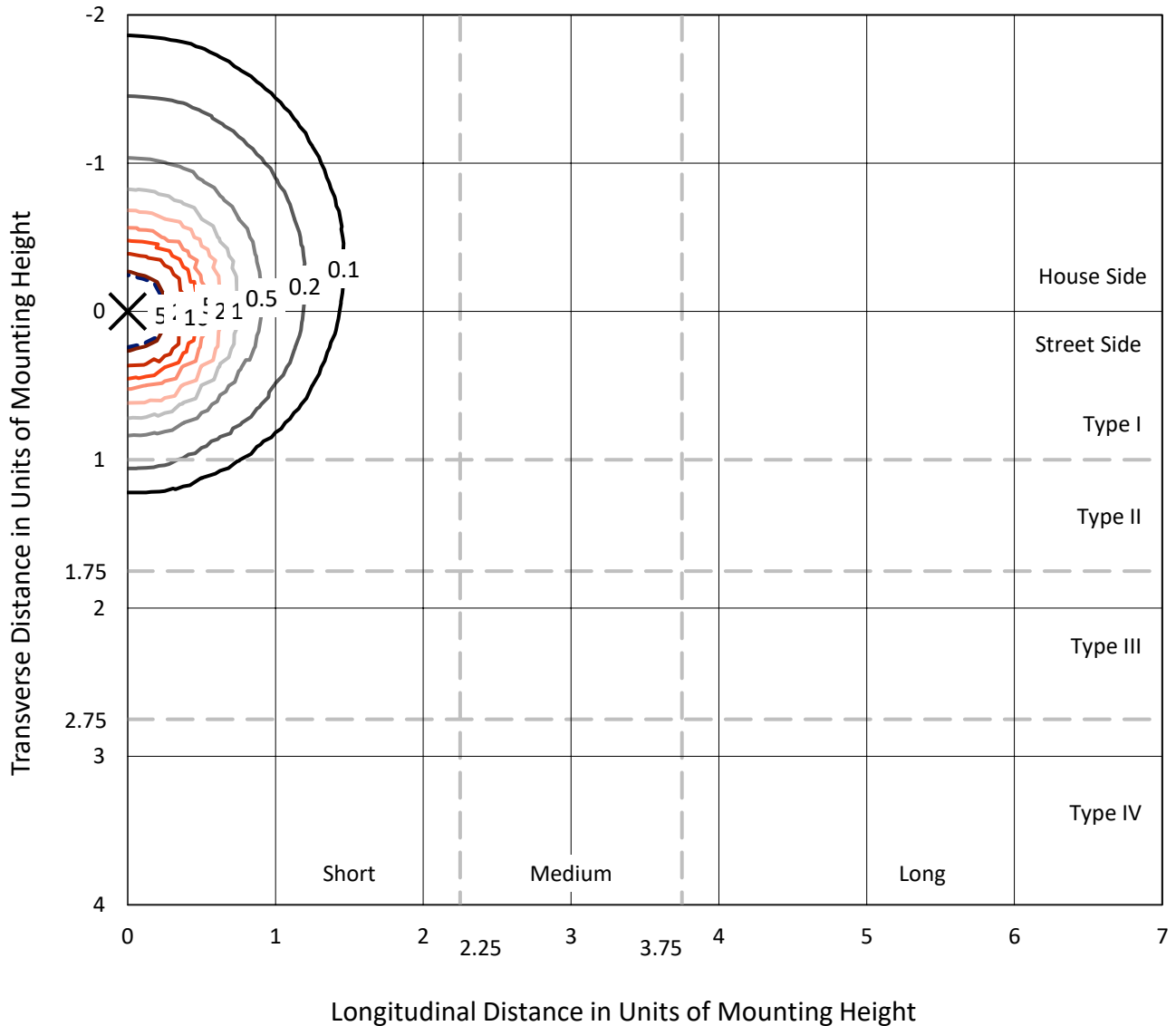
Input Watts (W): 156.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

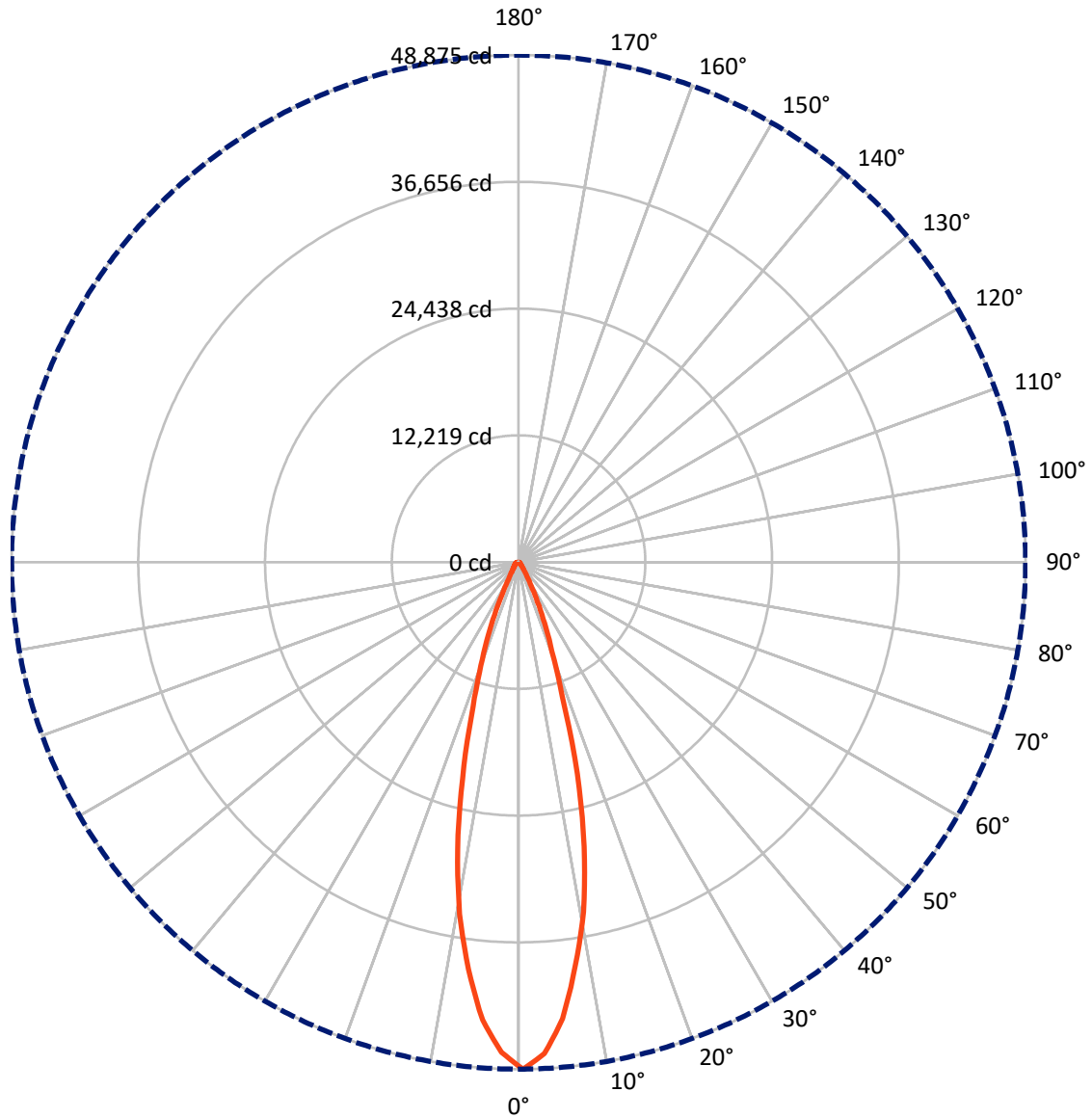
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 122.2 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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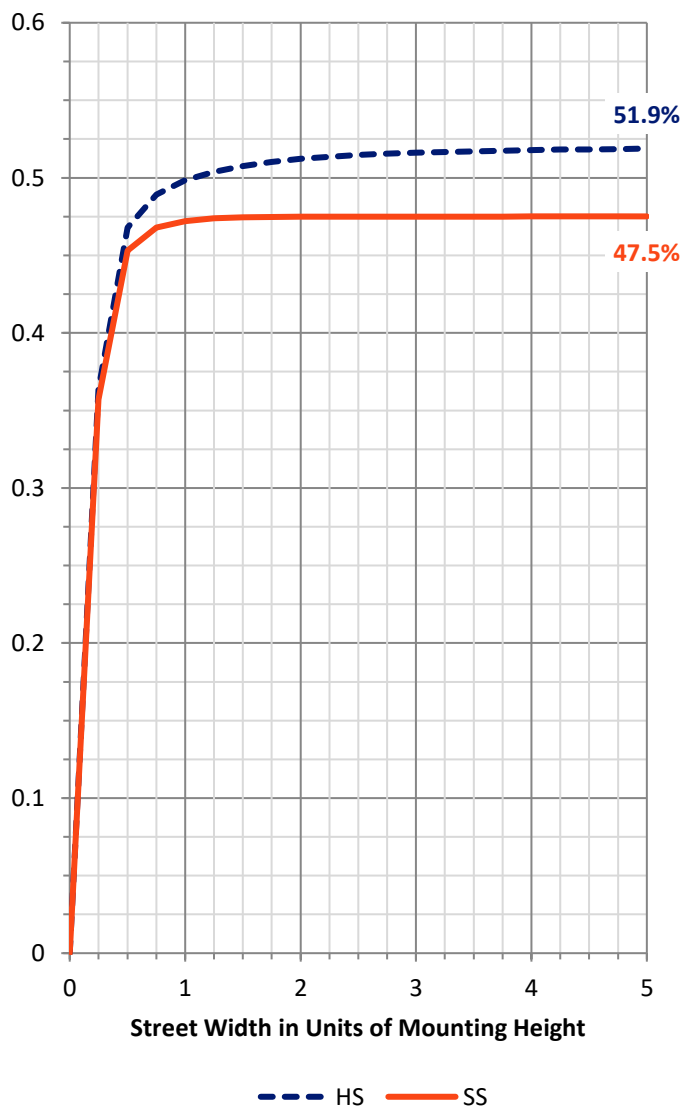
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7313.7	0.0	7313.7
	% Fixture	52.7	0.0	52.7
Street Side	Lumens	6557.2	0.0	6557.2
	% Fixture	47.3	0.0	47.3
Total	Lumens	13870.9	0.0	13870.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3944.7	28.4
10°-20°	5974.2	43.1
20°-30°	2521.1	18.2
30°-40°	657.5	4.7
40°-50°	332.6	2.4
50°-60°	217.4	1.6
60°-70°	130.2	0.9
70°-80°	68.5	0.5
80°-90°	24.7	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°	13870.9	100.0
0°-180°	13870.9	100.0



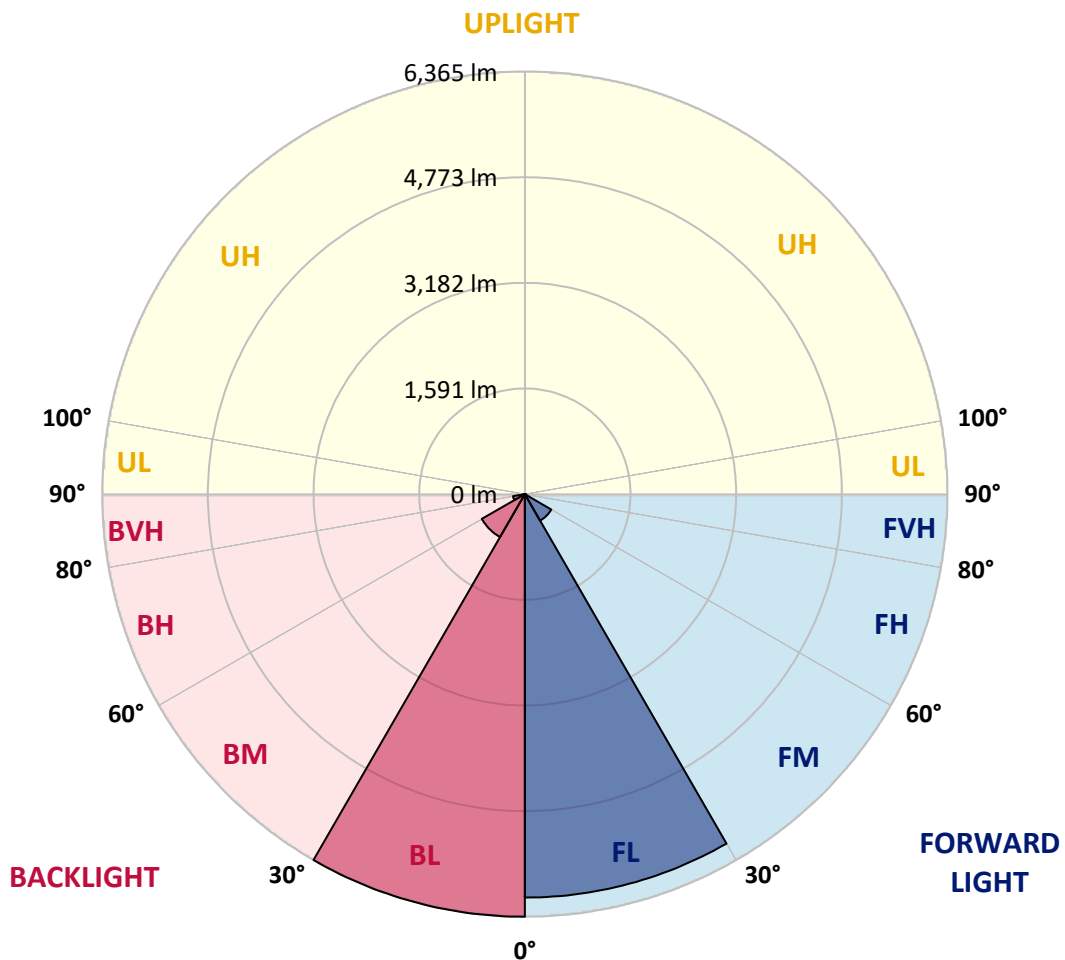
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	6075.4	43.8			
FM (30°-60°)	460.1	3.3			
FH (60°-80°)	18.7	0.1			G0/660
FVH (80°-90°)	3.0	0.0			G0/10
BL (0°-30°)	6364.6	45.9	B5		
BM (30°-60°)	747.4	5.4	B1/1000		
BH (60°-80°)	180.0	1.3	B1/500		G0/660
BVH (80°-90°)	21.7	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°	48875.3	48875.3	48875.3	48875.3	48875.3	48875.3	48875.3	48875.3	48875.3	48875.3
2.5°	47451.5	47478.0	47379.8	47591.7	47426.6	47869.0	47649.3	47992.0	47876.8	48068.4
5°	44211.4	44167.8	44139.8	44468.5	44373.4	44848.5	44544.8	44445.1	44753.5	44697.4
7.5°	39318.6	39433.9	39368.5	39454.1	39502.4	40044.5	40215.9	40081.9	40086.6	40164.5
10°	34302.7	34132.9	33891.5	34051.9	34391.5	34628.3	34533.3	34729.5	34685.9	34871.3
12.5°	28131.0	28265.0	28129.4	27986.1	28579.6	28514.2	28679.3	28786.8	28517.3	29117.0
15°	21189.8	21259.9	21425.0	21414.1	21870.5	21962.4	21940.6	22054.3	21844.0	21943.7
17.5°	13613.0	13849.8	14293.7	15044.5	15888.8	15987.0	15962.0	15868.6	15767.3	15655.2
20°	9143.9	9118.9	9279.4	9499.0	11246.8	11709.4	11695.4	11402.6	10978.9	10897.9
22.5°	6405.4	6452.1	6430.3	6648.4	7009.8	8285.6	8128.2	7830.7	7692.1	7601.7
25°	4213.7	4196.5	4305.6	4371.0	4681.0	4836.7	5388.2	5277.6	5064.2	5087.5
27.5°	2568.7	2590.5	2631.0	2687.1	2906.7	2856.9	3171.5	3213.6	3145.1	3071.8
30°	1576.4	1592.0	1624.7	1665.2	1741.5	1687.0	1774.3	1925.4	1900.4	1849.0
32.5°	1070.2	1071.7	1095.1	1110.7	1101.3	1049.9	1077.9	1221.3	1224.4	1219.7
35°	769.5	769.5	791.3	803.8	777.3	735.2	739.9	828.7	867.7	875.4
37.5°	531.2	532.7	570.1	607.5	577.9	567.0	548.3	607.5	669.8	679.2
40°	403.5	401.9	420.6	448.6	451.7	431.5	437.7	475.1	539.0	546.8
42.5°	327.1	328.7	338.0	334.9	336.5	363.0	372.3	389.4	448.6	462.6
45°	275.7	277.3	281.9	266.4	260.1	300.6	313.1	322.4	372.3	389.4
47.5°	227.4	230.5	235.2	218.1	215.0	241.4	263.3	272.6	316.2	334.9
50°	163.6	166.7	183.8	174.5	183.8	190.0	219.6	233.7	263.3	288.2
52.5°	118.4	121.5	126.2	127.7	151.1	154.2	176.0	197.8	211.9	239.9
55°	93.5	96.6	93.5	90.3	110.6	127.7	135.5	158.9	169.8	202.5
57.5°	53.0	56.1	60.8	70.1	73.2	98.1	105.9	126.2	135.5	166.7
60°	9.3	10.9	17.1	42.1	51.4	62.3	79.4	96.6	109.0	130.8
62.5°	1.6	1.6	3.1	9.3	29.6	43.6	57.6	68.5	79.4	99.7
65°	0.0	0.0	1.6	3.1	7.8	24.9	31.2	40.5	54.5	71.7
67.5°	0.0	0.0	1.6	3.1	4.7	9.3	14.0	24.9	31.2	48.3
70°	0.0	0.0	1.6	3.1	4.7	6.2	7.8	10.9	18.7	29.6
72.5°	0.0	0.0	1.6	3.1	4.7	6.2	7.8	9.3	9.3	18.7
75°	0.0	0.0	1.6	3.1	4.7	7.8	9.3	9.3	7.8	7.8
77.5°	0.0	0.0	1.6	3.1	6.2	9.3	10.9	9.3	6.2	6.2
80°	0.0	0.0	3.1	4.7	7.8	10.9	14.0	10.9	6.2	3.1
82.5°	0.0	0.0	3.1	6.2	7.8	12.5	17.1	14.0	6.2	3.1
85°	0.0	0.0	1.6	4.7	9.3	12.5	17.1	12.5	6.2	1.6
87.5°	0.0	0.0	1.6	1.6	3.1	4.7	9.3	7.8	3.1	1.6
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°
48875.3	0°	48875.3	48875.3	48875.3	48875.3	48875.3	48875.3	48875.3	48875.3	48875.3
47705.4	2.5°	47979.6	48228.8	48280.2	48211.7	48311.4	48132.2	47995.1	47640.0	47426.6
44680.3	5°	44968.5	44931.1	45191.2	45276.9	45266.0	45128.9	44937.3	44722.4	44513.6
40013.4	7.5°	40262.6	40310.9	40547.7	40698.8	40622.4	40451.1	40318.7	40156.7	40016.5
34938.3	10°	35257.6	34925.8	35220.2	35220.2	35424.3	34939.8	34985.0	34576.9	34595.6
29106.1	12.5°	29205.8	29325.8	29374.1	29512.7	29274.4	29017.4	28702.7	28640.4	28445.7
21753.7	15°	22066.8	22409.5	22115.1	22618.2	22375.2	22107.3	22059.0	21576.1	21728.7
15778.2	17.5°	15700.3	16078.9	16197.3	16485.4	16264.2	16105.3	15904.4	15758.0	15747.1
11045.8	20°	11133.1	11513.2	11600.4	11946.2	11921.3	11871.4	11701.7	11516.3	11315.3
7519.2	22.5°	7632.9	7942.9	8232.6	8698.4	8690.6	8544.1	8527.0	8265.3	8270.0
5079.7	25°	5132.7	5358.6	5427.1	5903.8	5956.8	5941.2	5852.4	5609.4	5701.3
3103.0	27.5°	3106.1	3303.9	3536.0	3704.3	3863.2	3838.2	3749.5	3613.9	3554.7
1864.6	30°	1914.4	2003.2	2088.9	2291.4	2386.4	2436.3	2394.2	2268.1	2277.4
1227.5	32.5°	1254.0	1328.7	1391.1	1518.8	1568.6	1660.5	1643.4	1616.9	1585.8
883.2	35°	914.4	968.9	1011.0	1070.2	1134.0	1211.9	1224.4	1213.5	1201.0
682.3	37.5°	697.9	753.9	802.2	827.2	877.0	937.8	972.0	970.5	961.1
556.1	40°	567.0	609.1	652.7	685.4	719.7	764.8	806.9	811.6	811.6
467.3	42.5°	473.5	509.4	553.0	587.3	612.2	654.2	697.9	701.0	697.9
395.7	45°	405.0	436.2	478.2	518.7	539.0	570.1	612.2	621.5	615.3
339.6	47.5°	352.0	380.1	415.9	459.5	481.3	509.4	548.3	559.2	557.7
292.9	50°	302.2	334.9	370.7	406.6	434.6	461.1	498.5	510.9	506.3
249.2	52.5°	266.4	296.0	327.1	366.1	398.8	422.1	451.7	473.5	467.3
210.3	55°	222.8	258.6	291.3	324.0	364.5	389.4	417.5	444.0	437.7
177.6	57.5°	193.2	222.8	260.1	289.7	330.2	359.8	387.9	415.9	414.4
144.9	60°	162.0	193.2	229.0	260.1	297.5	330.2	358.3	389.4	392.5
109.0	62.5°	127.7	165.1	196.3	232.1	269.5	305.3	330.2	361.4	366.1
82.6	65°	96.6	135.5	169.8	204.1	241.4	280.4	302.2	328.7	333.4
60.8	67.5°	71.7	104.4	144.9	176.0	215.0	252.4	272.6	294.4	302.2
37.4	70°	54.5	79.4	121.5	151.1	191.6	221.2	243.0	261.7	267.9
24.9	72.5°	34.3	62.3	98.1	129.3	165.1	191.6	207.2	218.1	227.4
14.0	75°	23.4	48.3	79.4	110.6	137.1	157.3	171.4	180.7	188.5
6.2	77.5°	14.0	37.4	65.4	91.9	109.0	124.6	138.6	144.9	149.5
4.7	80°	7.8	28.0	54.5	74.8	85.7	96.6	107.5	115.3	118.4
3.1	82.5°	4.7	21.8	43.6	57.6	62.3	73.2	84.1	88.8	88.8
1.6	85°	3.1	15.6	29.6	42.1	45.2	53.0	56.1	59.2	62.3
1.6	87.5°	3.1	9.3	18.7	23.4	24.9	28.0	29.6	32.7	35.8
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
48875.3
47269.2
44280.0
39541.4
34413.3
28268.1
21576.1
15457.3
11228.1
8179.6
5556.4
3503.3
2236.9
1574.9
1196.3
956.4
802.2
694.7
615.3
554.6
503.1
465.8
440.8
415.9
394.1
369.2
338.0
305.3
271.0
225.9
186.9
148.0
115.3
87.2
60.8
34.3
0.0

(END OF REPORT)