

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: P637492

Luminaire Tested: **IFLD-S-SA2B-830-U-44-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637492
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2B-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: 8750.3 lumens
Efficiency: N/A
Efficacy: 106.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G1

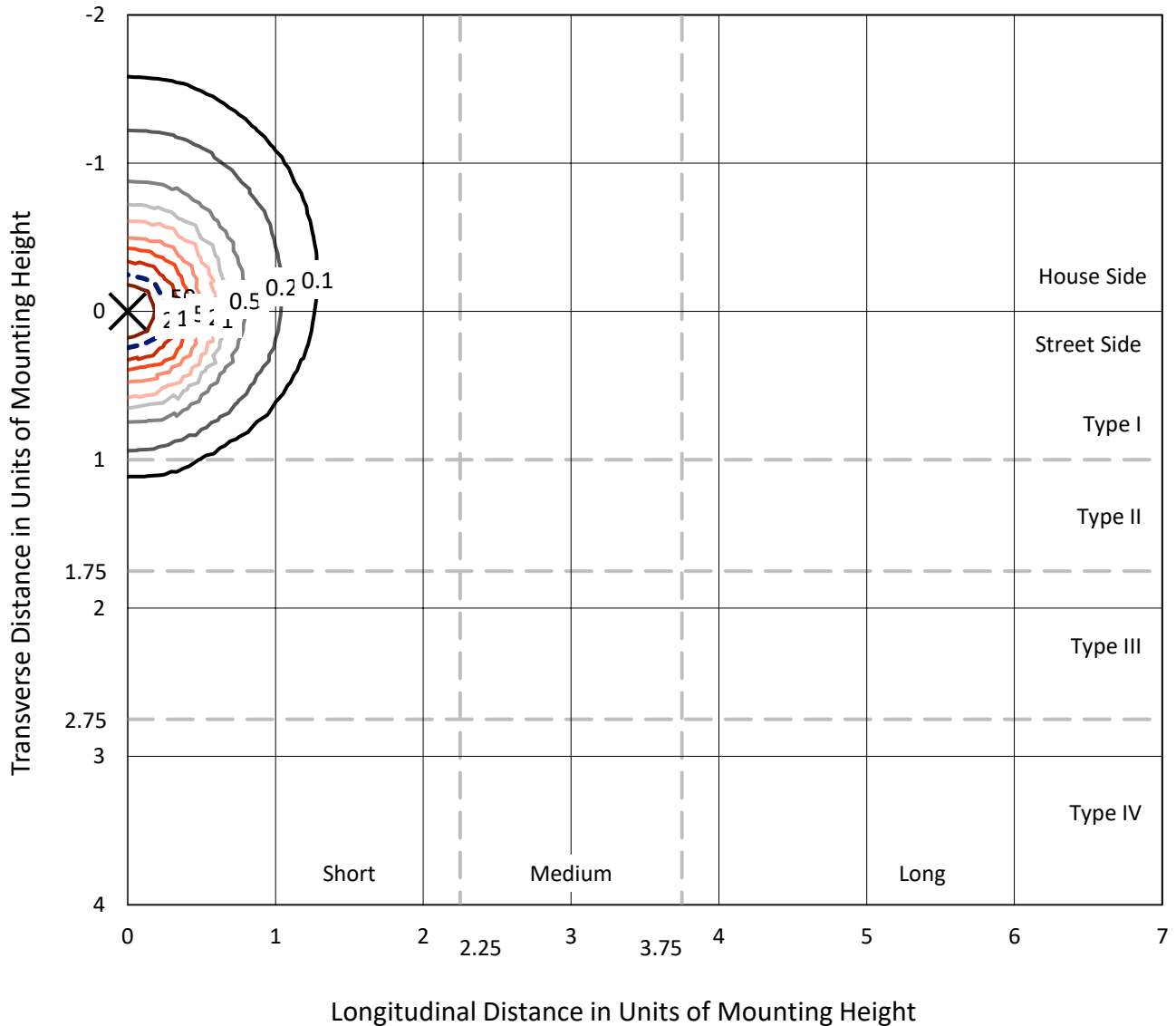
Input Watts (W): 82.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

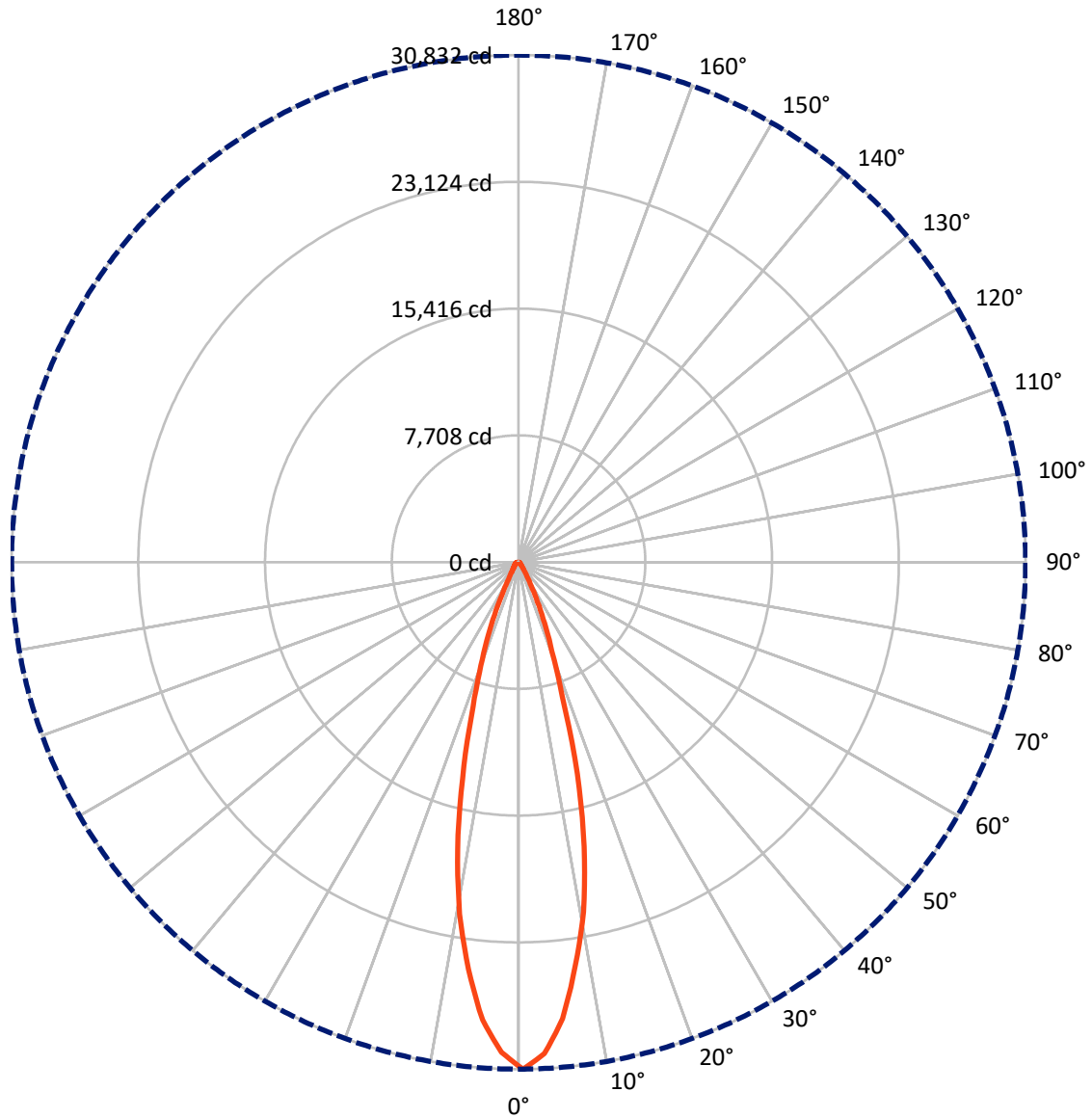
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 77.1 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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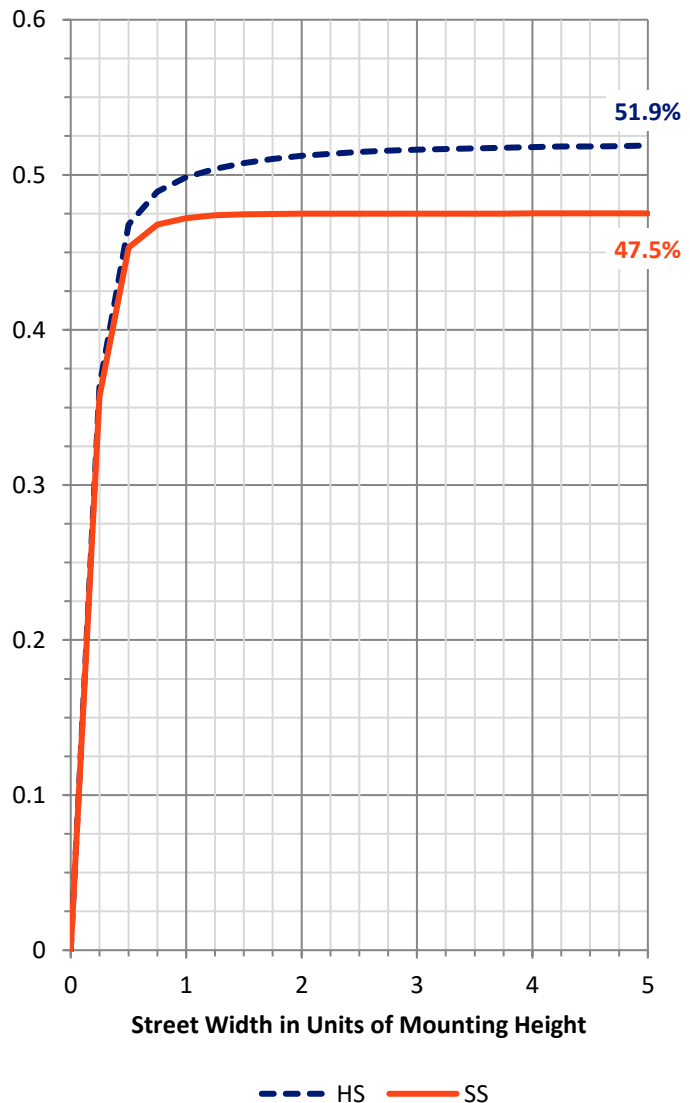
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4613.8	0.0	4613.8
	% Fixture	52.7	0.0	52.7
Street Side	Lumens	4136.6	0.0	4136.6
	% Fixture	47.3	0.0	47.3
Total	Lumens	8750.3	0.0	8750.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2488.4	28.4
10°-20°	3768.7	43.1
20°-30°	1590.4	18.2
30°-40°	414.8	4.7
40°-50°	209.8	2.4
50°-60°	137.1	1.6
60°-70°	82.2	0.9
70°-80°	43.2	0.5
80°-90°	15.6	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°	8750.3	100.0
0°-180°	8750.3	100.0



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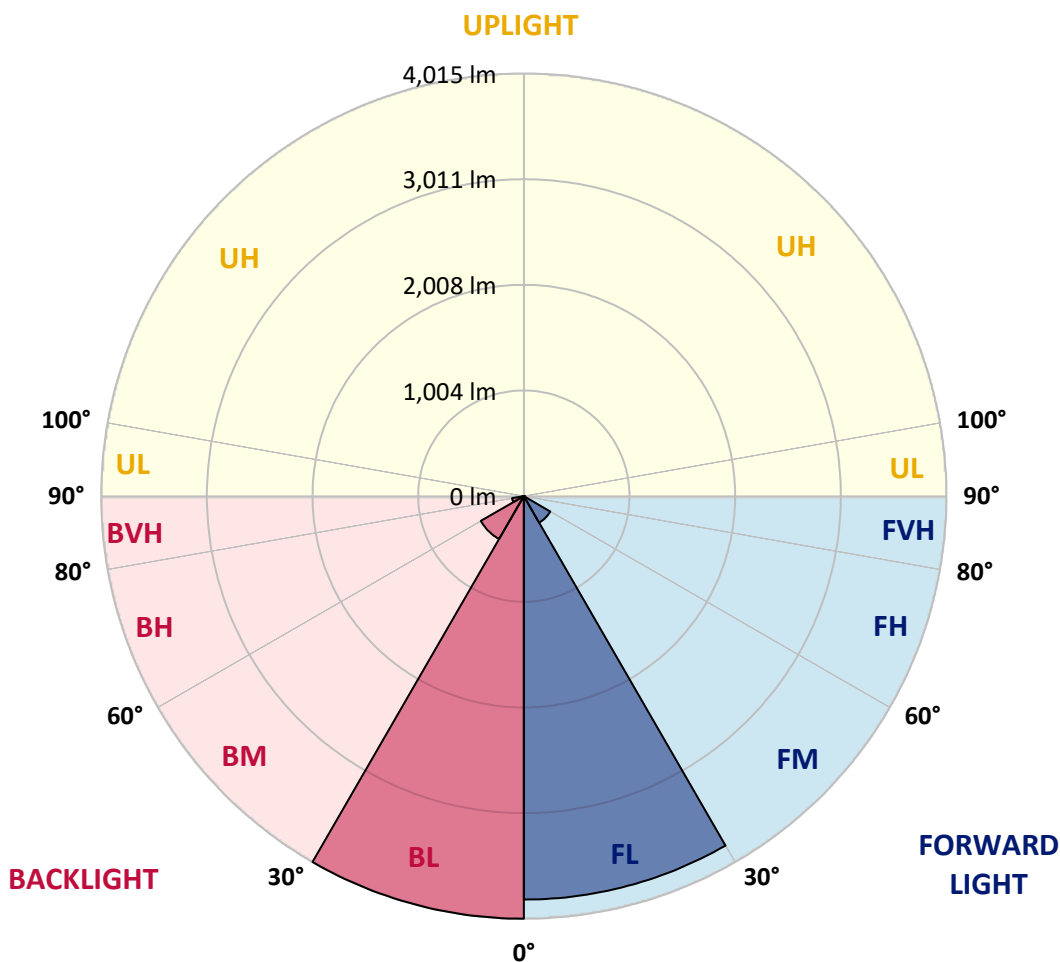
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3832.6	43.8			
FM (30°-60°)	290.3	3.3			
FH (60°-80°)	11.8	0.1			G0/660
FVH (80°-90°)	1.9	0.0			G0/10
BL (0°-30°)	4015.0	45.9	B4/5000		
BM (30°-60°)	471.5	5.4	B1/1000		
BH (60°-80°)	113.6	1.3	B1/500		G0/660
BVH (80°-90°)	13.7	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G1

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	30832.4	30832.4	30832.4	30832.4	30832.4	30832.4	30832.4	30832.4	30832.4	30832.4
2.5°	29934.2	29950.9	29889.0	30022.7	29918.5	30197.6	30059.0	30275.2	30202.5	30323.4
5°	27890.3	27862.7	27845.0	28052.4	27992.5	28292.2	28100.5	28037.7	28232.2	28196.8
7.5°	24803.7	24876.4	24835.1	24889.2	24919.6	25261.6	25369.7	25285.2	25288.1	25337.3
10°	21639.5	21532.4	21380.0	21481.3	21695.5	21844.8	21784.9	21908.7	21881.2	21998.1
12.5°	17746.1	17830.6	17745.1	17654.7	18029.1	17987.8	18092.0	18159.8	17989.8	18368.1
15°	13367.3	13411.5	13515.7	13508.8	13796.7	13854.7	13841.0	13912.7	13780.0	13842.9
17.5°	8587.6	8737.0	9017.0	9490.7	10023.3	10085.2	10069.5	10010.5	9946.6	9875.9
20°	5768.3	5752.6	5853.8	5992.3	7094.9	7386.8	7377.9	7193.2	6925.9	6874.8
22.5°	4040.8	4070.2	4056.5	4194.1	4422.0	5226.8	5127.6	4939.9	4852.4	4795.4
25°	2658.1	2647.3	2716.1	2757.4	2952.9	3051.2	3399.1	3329.3	3194.7	3209.4
27.5°	1620.4	1634.2	1659.7	1695.1	1833.7	1802.2	2000.7	2027.3	1984.0	1937.8
30°	994.5	1004.3	1024.9	1050.5	1098.6	1064.2	1119.3	1214.6	1198.9	1166.4
32.5°	675.1	676.1	690.8	700.6	694.8	662.3	680.0	770.4	772.4	769.4
35°	485.4	485.4	499.2	507.1	490.4	463.8	466.8	522.8	547.3	552.3
37.5°	335.1	336.1	359.7	383.2	364.6	357.7	345.9	383.2	422.5	428.4
40°	254.5	253.5	265.3	283.0	285.0	272.2	276.1	299.7	340.0	344.9
42.5°	206.4	207.3	213.2	211.3	212.3	229.0	234.9	245.7	283.0	291.9
45°	173.9	174.9	177.9	168.0	164.1	189.7	197.5	203.4	234.9	245.7
47.5°	143.5	145.4	148.4	137.6	135.6	152.3	166.1	172.0	199.5	211.3
50°	103.2	105.1	116.0	110.1	116.0	119.9	138.6	147.4	166.1	181.8
52.5°	74.7	76.6	79.6	80.6	95.3	97.3	111.0	124.8	133.6	151.3
55°	59.0	60.9	59.0	57.0	69.8	80.6	85.5	100.2	107.1	127.7
57.5°	33.4	35.4	38.3	44.2	46.2	61.9	66.8	79.6	85.5	105.1
60°	5.9	6.9	10.8	26.5	32.4	39.3	50.1	60.9	68.8	82.5
62.5°	1.0	1.0	2.0	5.9	18.7	27.5	36.4	43.2	50.1	62.9
65°	0.0	0.0	1.0	2.0	4.9	15.7	19.7	25.5	34.4	45.2
67.5°	0.0	0.0	1.0	2.0	2.9	5.9	8.8	15.7	19.7	30.5
70°	0.0	0.0	1.0	2.0	2.9	3.9	4.9	6.9	11.8	18.7
72.5°	0.0	0.0	1.0	2.0	2.9	3.9	4.9	5.9	5.9	11.8
75°	0.0	0.0	1.0	2.0	2.9	4.9	5.9	5.9	4.9	4.9
77.5°	0.0	0.0	1.0	2.0	3.9	5.9	6.9	5.9	3.9	3.9
80°	0.0	0.0	2.0	2.9	4.9	6.9	8.8	6.9	3.9	2.0
82.5°	0.0	0.0	2.0	3.9	4.9	7.9	10.8	8.8	3.9	2.0
85°	0.0	0.0	1.0	2.9	5.9	7.9	10.8	7.9	3.9	1.0
87.5°	0.0	0.0	1.0	1.0	2.0	2.9	5.9	4.9	2.0	1.0
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°
30832.4	0°	30832.4	30832.4	30832.4	30832.4	30832.4	30832.4	30832.4	30832.4	30832.4
30094.4	2.5°	30267.3	30424.6	30457.0	30413.8	30476.7	30363.6	30277.2	30053.1	29918.5
28186.0	5°	28367.8	28344.2	28508.4	28562.4	28555.5	28469.0	28348.2	28212.6	28080.9
25241.9	7.5°	25399.2	25429.6	25579.0	25674.3	25626.2	25518.1	25434.6	25332.4	25243.9
22040.4	10°	22241.8	22032.5	22218.3	22218.3	22347.0	22041.4	22069.9	21812.4	21824.2
18361.3	12.5°	18424.2	18499.8	18530.3	18617.7	18467.4	18305.3	18106.8	18067.4	17944.6
13723.0	15°	13920.6	14136.7	13951.0	14268.4	14115.1	13946.1	13915.6	13611.0	13707.3
9953.5	17.5°	9904.4	10143.2	10217.8	10399.6	10260.1	10159.9	10033.1	9940.7	9933.9
6968.1	20°	7023.2	7262.9	7318.0	7536.1	7520.4	7489.0	7381.8	7264.9	7138.1
4743.4	22.5°	4815.1	5010.7	5193.4	5487.3	5482.3	5390.0	5379.2	5214.1	5217.0
3204.5	25°	3237.9	3380.4	3423.6	3724.3	3757.7	3747.9	3691.9	3538.6	3596.6
1957.5	27.5°	1959.5	2084.3	2230.7	2336.8	2437.0	2421.3	2365.3	2279.8	2242.5
1176.3	30°	1207.7	1263.7	1317.8	1445.5	1505.5	1536.9	1510.4	1430.8	1436.7
774.3	32.5°	791.1	838.2	877.5	958.1	989.6	1047.5	1036.7	1020.0	1000.4
557.2	35°	576.8	611.2	637.8	675.1	715.4	764.5	772.4	765.5	757.6
430.4	37.5°	440.2	475.6	506.1	521.8	553.2	591.6	613.2	612.2	606.3
350.8	40°	357.7	384.2	411.7	432.4	454.0	482.5	509.0	512.0	512.0
294.8	42.5°	298.7	321.3	348.8	370.5	386.2	412.7	440.2	442.2	440.2
249.6	45°	255.5	275.1	301.7	327.2	340.0	359.7	386.2	392.1	388.2
214.2	47.5°	222.1	239.8	262.4	289.9	303.6	321.3	345.9	352.8	351.8
184.7	50°	190.6	211.3	233.9	256.5	274.2	290.9	314.5	322.3	319.4
157.2	52.5°	168.0	186.7	206.4	230.9	251.6	266.3	285.0	298.7	294.8
132.7	55°	140.5	163.1	183.8	204.4	229.9	245.7	263.4	280.1	276.1
112.0	57.5°	121.9	140.5	164.1	182.8	208.3	227.0	244.7	262.4	261.4
91.4	60°	102.2	121.9	144.5	164.1	187.7	208.3	226.0	245.7	247.6
68.8	62.5°	80.6	104.2	123.8	146.4	170.0	192.6	208.3	228.0	230.9
52.1	65°	60.9	85.5	107.1	128.7	152.3	176.9	190.6	207.3	210.3
38.3	67.5°	45.2	65.8	91.4	111.0	135.6	159.2	172.0	185.7	190.6
23.6	70°	34.4	50.1	76.6	95.3	120.9	139.5	153.3	165.1	169.0
15.7	72.5°	21.6	39.3	61.9	81.6	104.2	120.9	130.7	137.6	143.5
8.8	75°	14.7	30.5	50.1	69.8	86.5	99.3	108.1	114.0	118.9
3.9	77.5°	8.8	23.6	41.3	58.0	68.8	78.6	87.5	91.4	94.3
2.9	80°	4.9	17.7	34.4	47.2	54.0	60.9	67.8	72.7	74.7
2.0	82.5°	2.9	13.8	27.5	36.4	39.3	46.2	53.1	56.0	56.0
1.0	85°	2.0	9.8	18.7	26.5	28.5	33.4	35.4	37.3	39.3
1.0	87.5°	2.0	5.9	11.8	14.7	15.7	17.7	18.7	20.6	22.6
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
30832.4
29819.2
27933.5
24944.2
21709.2
17832.6
13611.0
9751.1
7083.1
5160.0
3505.2
2210.0
1411.1
993.5
754.7
603.4
506.1
438.3
388.2
349.8
317.4
293.8
278.1
262.4
248.6
232.9
213.2
192.6
171.0
142.5
117.9
93.4
72.7
55.0
38.3
21.6
0.0

(END OF REPORT)