

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: P637466

Luminaire Tested: **IFLD-S-SA2E-827-U-44-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637466
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2E-827-U-44-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 4 distribution lens and Visor
Light Source: (32) 2700K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12832.3 lumens
Efficiency: N/A
Efficacy: 82.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

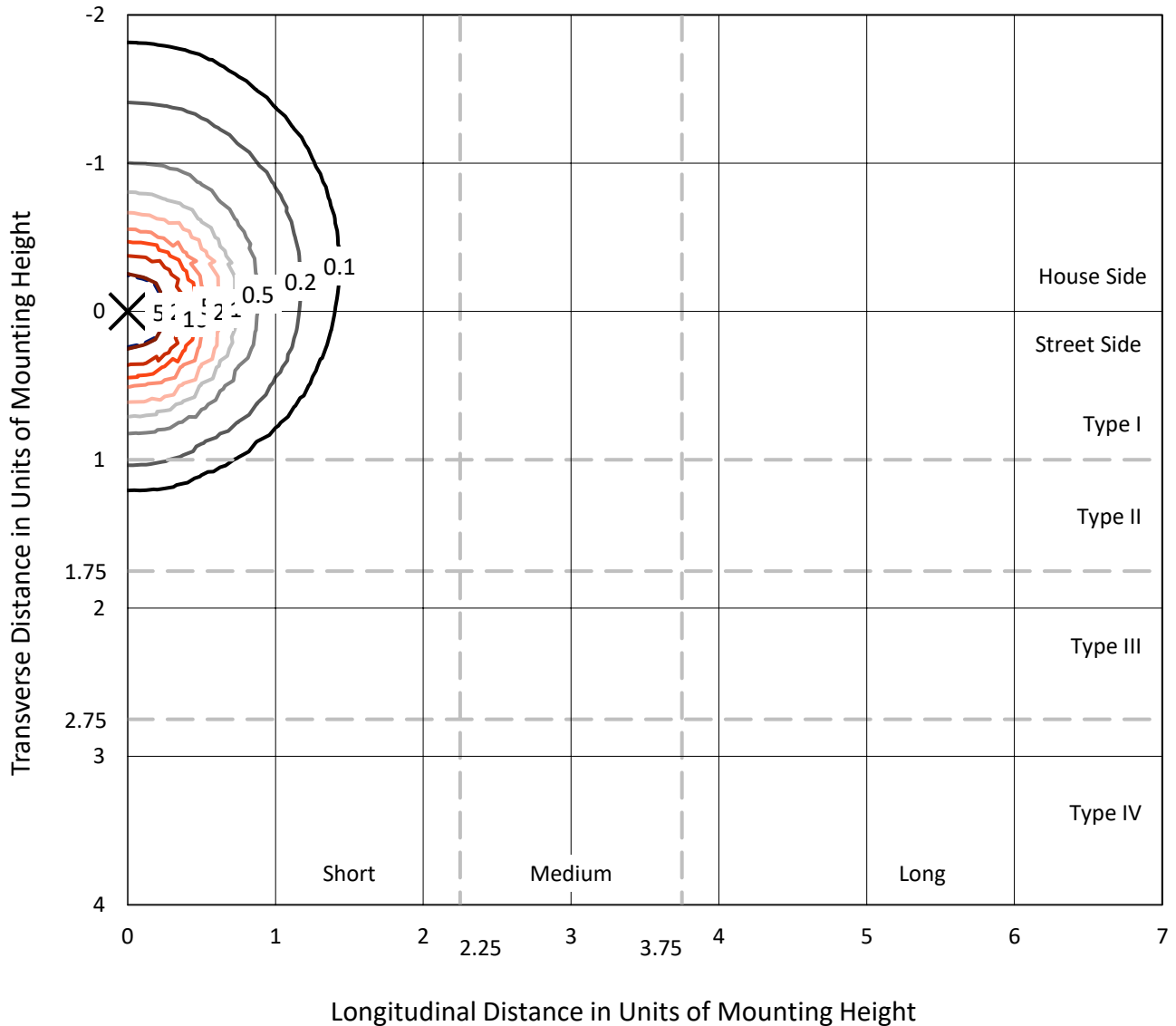
Input Watts (W): 156.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

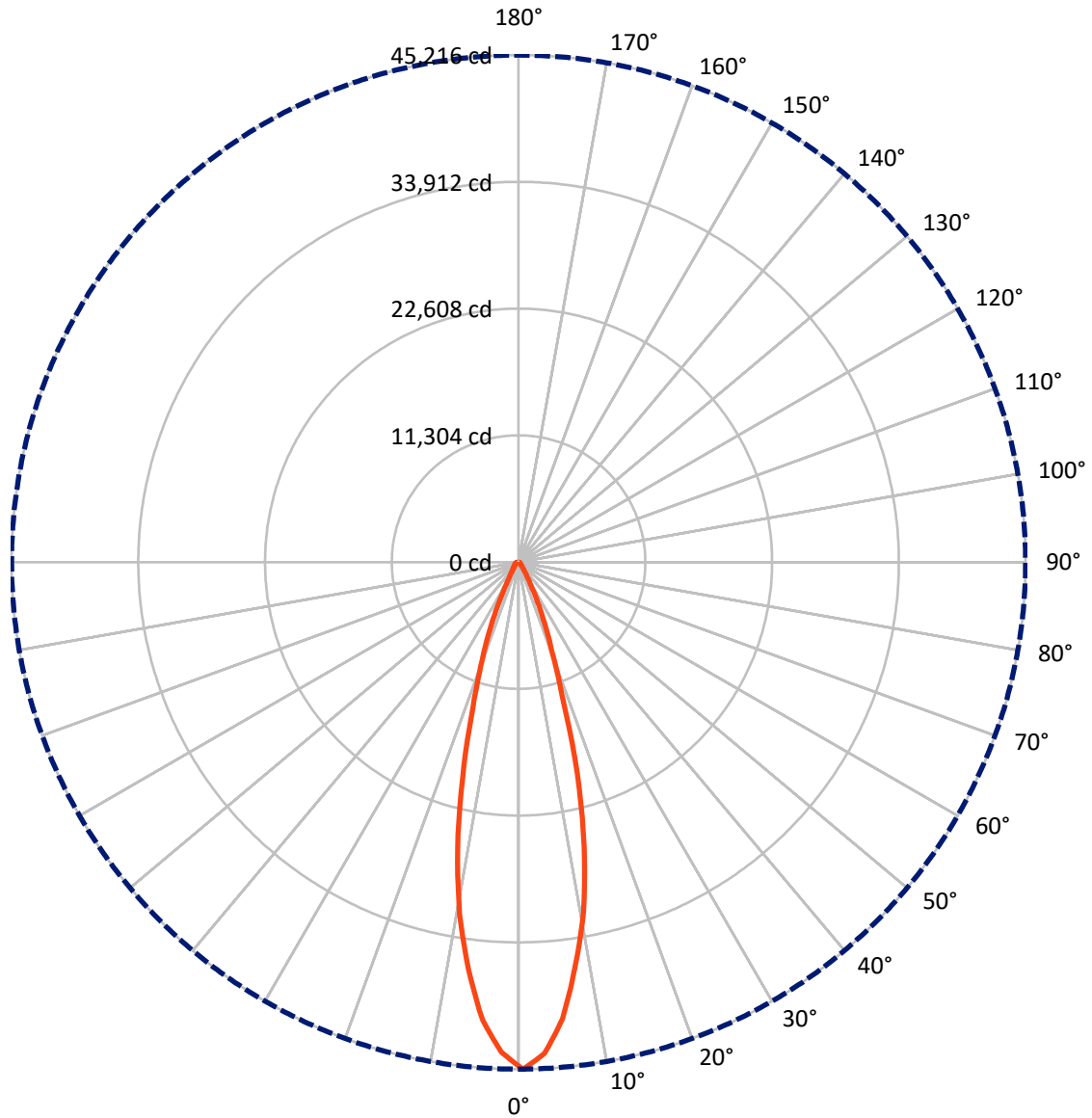
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 113 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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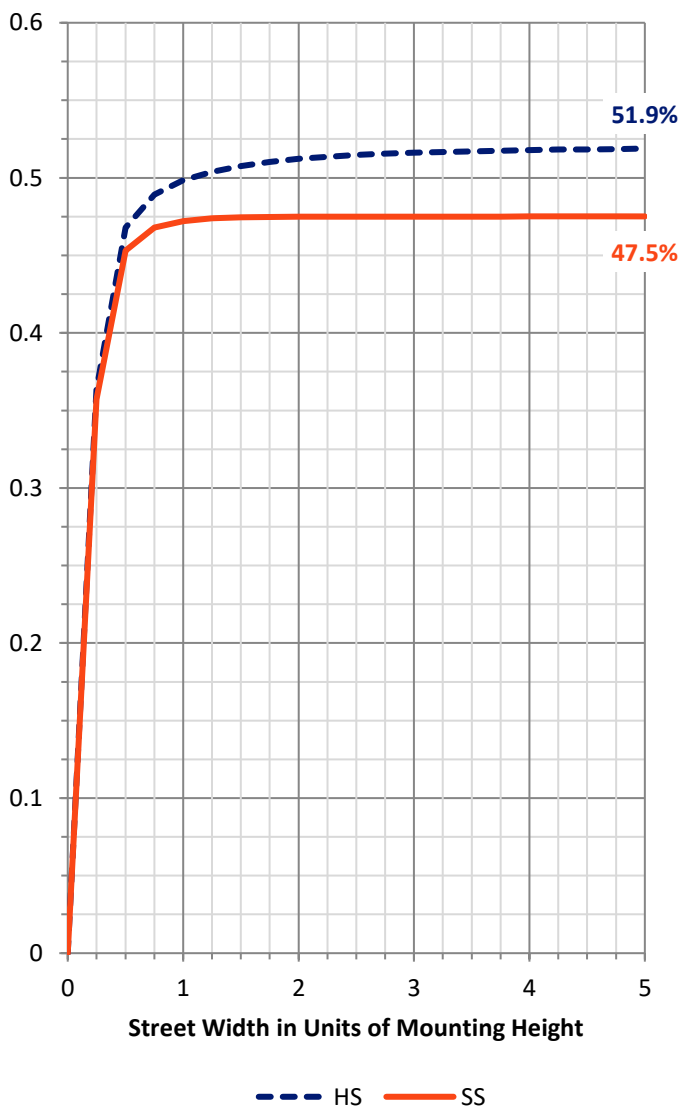
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6766.0	0.0	6766.0
	% Fixture	52.7	0.0	52.7
Street Side	Lumens	6066.2	0.0	6066.2
	% Fixture	47.3	0.0	47.3
Total	Lumens	12832.3	0.0	12832.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3649.3	28.4
10°-20°	5526.8	43.1
20°-30°	2332.3	18.2
30°-40°	608.3	4.7
40°-50°	307.7	2.4
50°-60°	201.1	1.6
60°-70°	120.5	0.9
70°-80°	63.4	0.5
80°-90°	22.9	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°	12832.3	100.0
0°-180°	12832.3	100.0



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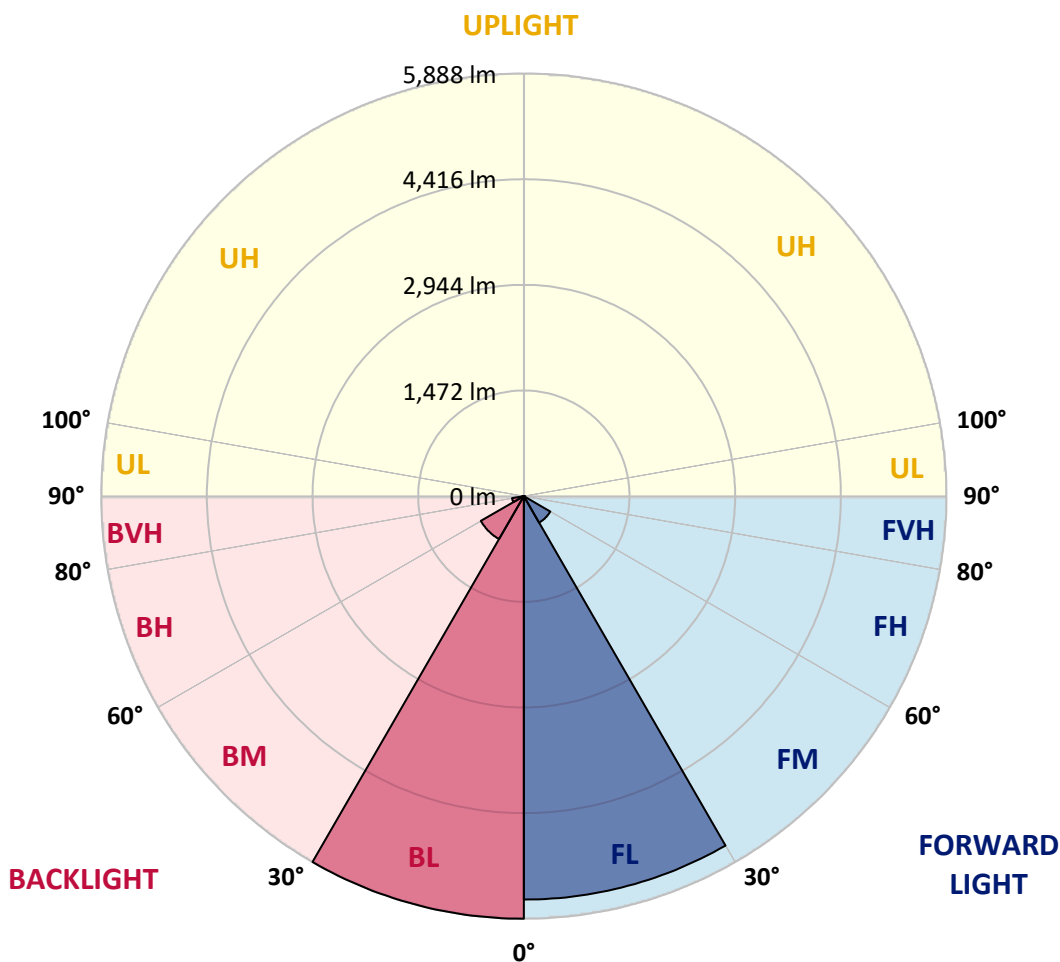
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5620.5	43.8			
FM (30°-60°)	425.7	3.3			
FH (60°-80°)	17.3	0.1			G0/660
FVH (80°-90°)	2.8	0.0			G0/10
BL (0°-30°)	5888.0	45.9	B5		
BM (30°-60°)	691.4	5.4	B1/1000		
BH (60°-80°)	166.5	1.3	B1/500		G0/660
BVH (80°-90°)	20.1	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°	45215.5	45215.5	45215.5	45215.5	45215.5	45215.5	45215.5	45215.5	45215.5	45215.5
2.5°	43898.3	43922.8	43832.0	44028.0	43875.3	44284.5	44081.3	44398.4	44291.7	44469.0
5°	40900.9	40860.5	40834.6	41138.6	41050.7	41490.3	41209.2	41117.0	41402.4	41350.5
7.5°	36374.4	36481.1	36420.5	36499.8	36544.5	37046.0	37204.5	37080.5	37084.9	37156.9
10°	31734.1	31577.0	31353.7	31502.1	31816.3	32035.3	31947.4	32129.0	32088.6	32260.1
12.5°	26024.5	26148.5	26023.1	25890.5	26439.6	26379.0	26531.8	26631.2	26381.9	26936.7
15°	19603.1	19667.9	19820.7	19810.6	20232.8	20317.8	20297.7	20402.9	20208.3	20300.6
17.5°	12593.6	12812.7	13223.4	13918.0	14699.1	14789.8	14766.8	14680.3	14586.7	14482.9
20°	8459.2	8436.1	8584.5	8787.7	10404.6	10832.6	10819.7	10548.7	10156.8	10081.8
22.5°	5925.7	5969.0	5948.8	6150.5	6484.9	7665.1	7519.6	7244.3	7116.1	7032.5
25°	3898.1	3882.3	3983.2	4043.7	4330.5	4474.6	4984.7	4882.4	4685.0	4706.6
27.5°	2376.3	2396.5	2434.0	2485.9	2689.1	2642.9	2934.0	2973.0	2909.5	2841.8
30°	1458.4	1472.8	1503.1	1540.5	1611.1	1560.7	1641.4	1781.2	1758.1	1710.6
32.5°	990.0	991.5	1013.1	1027.5	1018.8	971.3	997.2	1129.8	1132.7	1128.4
35°	711.9	711.9	732.1	743.6	719.1	680.2	684.5	766.7	802.7	809.9
37.5°	491.4	492.9	527.4	562.0	534.6	524.6	507.3	562.0	619.7	628.3
40°	373.2	371.8	389.1	415.0	417.9	399.2	404.9	439.5	498.6	505.8
42.5°	302.6	304.1	312.7	309.8	311.3	335.8	344.4	360.3	415.0	428.0
45°	255.1	256.5	260.8	246.4	240.7	278.1	289.7	298.3	344.4	360.3
47.5°	210.4	213.3	217.6	201.8	198.9	223.4	243.5	252.2	292.5	309.8
50°	151.3	154.2	170.0	161.4	170.0	175.8	203.2	216.2	243.5	266.6
52.5°	109.5	112.4	116.7	118.2	139.8	142.7	162.8	183.0	196.0	221.9
55°	86.5	89.3	86.5	83.6	102.3	118.2	125.4	147.0	157.1	187.3
57.5°	49.0	51.9	56.2	64.8	67.7	90.8	98.0	116.7	125.4	154.2
60°	8.6	10.1	15.9	38.9	47.6	57.6	73.5	89.3	100.9	121.1
62.5°	1.4	1.4	2.9	8.6	27.4	40.4	53.3	63.4	73.5	92.2
65°	0.0	0.0	1.4	2.9	7.2	23.1	28.8	37.5	50.4	66.3
67.5°	0.0	0.0	1.4	2.9	4.3	8.6	13.0	23.1	28.8	44.7
70°	0.0	0.0	1.4	2.9	4.3	5.8	7.2	10.1	17.3	27.4
72.5°	0.0	0.0	1.4	2.9	4.3	5.8	7.2	8.6	8.6	17.3
75°	0.0	0.0	1.4	2.9	4.3	7.2	8.6	8.6	7.2	7.2
77.5°	0.0	0.0	1.4	2.9	5.8	8.6	10.1	8.6	5.8	5.8
80°	0.0	0.0	2.9	4.3	7.2	10.1	13.0	10.1	5.8	2.9
82.5°	0.0	0.0	2.9	5.8	7.2	11.5	15.9	13.0	5.8	2.9
85°	0.0	0.0	1.4	4.3	8.6	11.5	15.9	11.5	5.8	1.4
87.5°	0.0	0.0	1.4	1.4	2.9	4.3	8.6	7.2	2.9	1.4
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°
45215.5	0°	45215.5	45215.5	45215.5	45215.5	45215.5	45215.5	45215.5	45215.5	45215.5
44133.2	2.5°	44386.8	44617.4	44665.0	44601.6	44693.8	44528.1	44401.2	44072.7	43875.3
41334.6	5°	41601.2	41566.6	41807.3	41886.6	41876.5	41749.7	41572.4	41373.5	41180.4
37017.1	7.5°	37247.7	37292.4	37511.4	37651.2	37580.6	37422.1	37299.6	37149.7	37020.0
32322.1	10°	32617.5	32310.6	32582.9	32582.9	32771.7	32323.5	32365.3	31987.7	32005.0
26926.7	12.5°	27018.9	27129.9	27174.5	27302.8	27082.3	26844.5	26553.4	26495.8	26315.6
20124.7	15°	20414.4	20731.4	20459.1	20924.5	20699.7	20451.9	20407.2	19960.5	20101.7
14596.7	17.5°	14524.7	14874.9	14984.4	15251.0	15046.4	14899.4	14713.5	14578.0	14567.9
10218.7	20°	10299.4	10651.1	10731.8	11051.7	11028.6	10982.5	10825.4	10653.9	10468.0
6956.1	22.5°	7061.3	7348.1	7616.1	8047.0	8039.8	7904.3	7888.5	7646.4	7650.7
4699.4	25°	4748.4	4957.3	5020.7	5461.7	5510.7	5496.3	5414.2	5189.3	5274.4
2870.6	27.5°	2873.5	3056.5	3271.3	3426.9	3573.9	3550.8	3468.7	3343.3	3288.6
1725.0	30°	1771.1	1853.2	1932.5	2119.8	2207.7	2253.9	2214.9	2098.2	2106.9
1135.6	32.5°	1160.1	1229.2	1286.9	1405.1	1451.2	1536.2	1520.3	1495.8	1467.0
817.1	35°	845.9	896.4	935.3	990.0	1049.1	1121.2	1132.7	1122.6	1111.1
631.2	37.5°	645.6	697.5	742.2	765.2	811.3	867.5	899.2	897.8	889.1
514.5	40°	524.6	563.5	603.8	634.1	665.8	707.6	746.5	750.8	750.8
432.3	42.5°	438.1	471.2	511.6	543.3	566.3	605.3	645.6	648.5	645.6
366.0	45°	374.7	403.5	442.4	479.9	498.6	527.4	566.3	575.0	569.2
314.2	47.5°	325.7	351.6	384.8	425.1	445.3	471.2	507.3	517.3	515.9
270.9	50°	279.6	309.8	343.0	376.1	402.1	426.6	461.1	472.7	468.4
230.6	52.5°	246.4	273.8	302.6	338.7	368.9	390.5	417.9	438.1	432.3
194.5	55°	206.1	239.2	269.5	299.7	337.2	360.3	386.2	410.7	404.9
164.3	57.5°	178.7	206.1	240.7	268.0	305.5	332.9	358.8	384.8	383.3
134.0	60°	149.9	178.7	211.8	240.7	275.2	305.5	331.4	360.3	363.2
100.9	62.5°	118.2	152.8	181.6	214.7	249.3	282.5	305.5	334.3	338.7
76.4	65°	89.3	125.4	157.1	188.8	223.4	259.4	279.6	304.1	308.4
56.2	67.5°	66.3	96.6	134.0	162.8	198.9	233.5	252.2	272.4	279.6
34.6	70°	50.4	73.5	112.4	139.8	177.3	204.6	224.8	242.1	247.9
23.1	72.5°	31.7	57.6	90.8	119.6	152.8	177.3	191.7	201.8	210.4
13.0	75°	21.6	44.7	73.5	102.3	126.8	145.5	158.5	167.2	174.4
5.8	77.5°	13.0	34.6	60.5	85.0	100.9	115.3	128.3	134.0	138.3
4.3	80°	7.2	25.9	50.4	69.2	79.3	89.3	99.4	106.6	109.5
2.9	82.5°	4.3	20.2	40.4	53.3	57.6	67.7	77.8	82.1	82.1
1.4	85°	2.9	14.4	27.4	38.9	41.8	49.0	51.9	54.8	57.6
1.4	87.5°	2.9	8.6	17.3	21.6	23.1	25.9	27.4	30.3	33.1
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
45215.5
43729.7
40964.3
36580.5
31836.4
26151.4
19960.5
14299.9
10387.3
7567.1
5140.3
3241.0
2069.4
1456.9
1106.8
884.8
742.2
642.7
569.2
513.0
465.5
430.9
407.8
384.8
364.6
341.5
312.7
282.5
250.7
209.0
172.9
136.9
106.6
80.7
56.2
31.7
0.0

(END OF REPORT)