

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: P638145

Luminaire Tested: **IFLD-M-SA4B-735-U-77-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P638145
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4B-735-U-77-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens and Visor
Light Source: (64) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17327.1 lumens
Efficiency: N/A
Efficacy: 104.3 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B4 - U0 - G2

Input Watts (W): 166.1
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



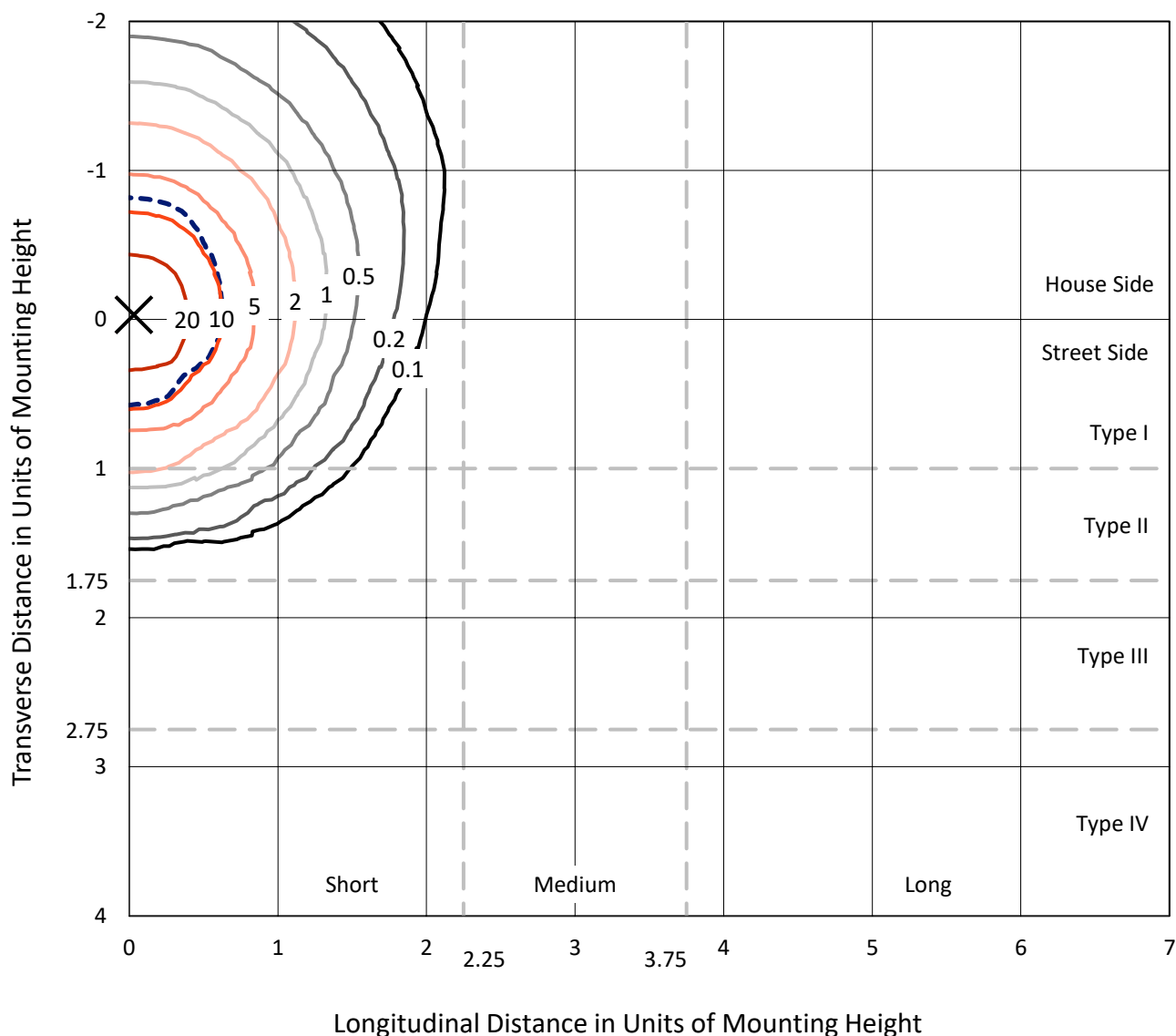
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

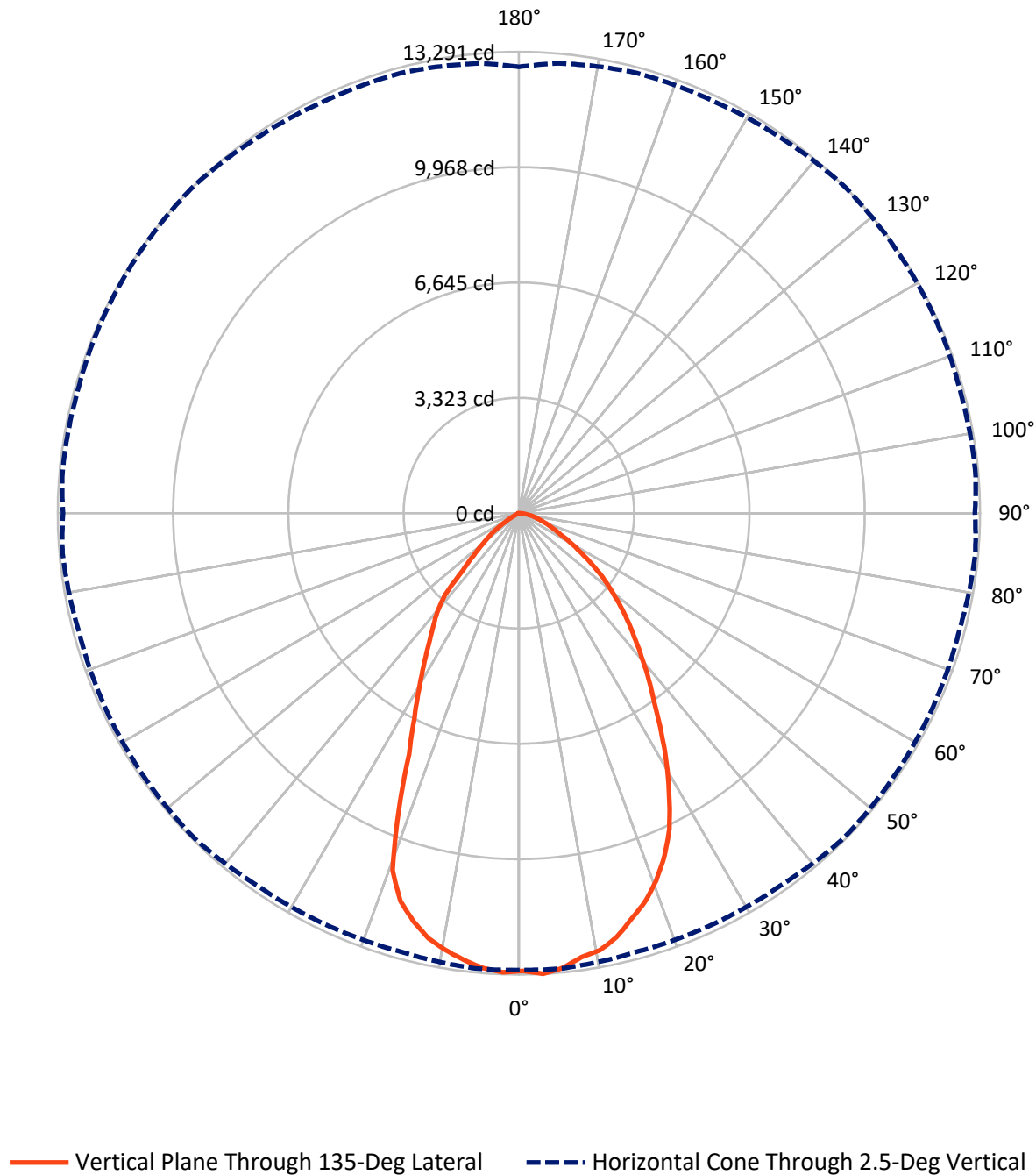


Based on 20 foot mounting height. Maximum calculated value = 33 fc

Type I - Short - N/A

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Luminous Intensity Polar Plot



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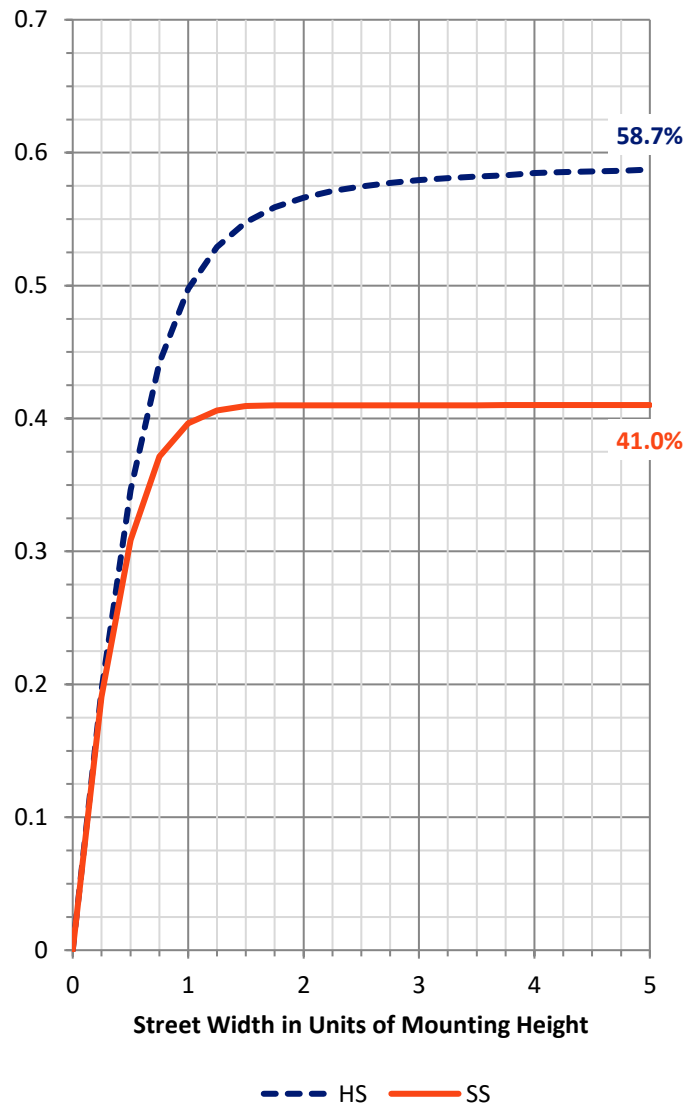
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10262.0	0.0	10262.0
	% Fixture	59.2	0.0	59.2
Street Side	Lumens	7065.1	0.0	7065.1
	% Fixture	40.8	0.0	40.8
Total	Lumens	17327.1	0.0	17327.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1236.6	7.1
10°-20°	3316.1	19.1
20°-30°	4044.1	23.3
30°-40°	3692.3	21.3
40°-50°	2668.3	15.4
50°-60°	1456.9	8.4
60°-70°	602.4	3.5
70°-80°	244.0	1.4
80°-90°	66.4	0.4
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°	17327.1	100.0
0°-180°	17327.1	100.0

Coefficient of Utilization



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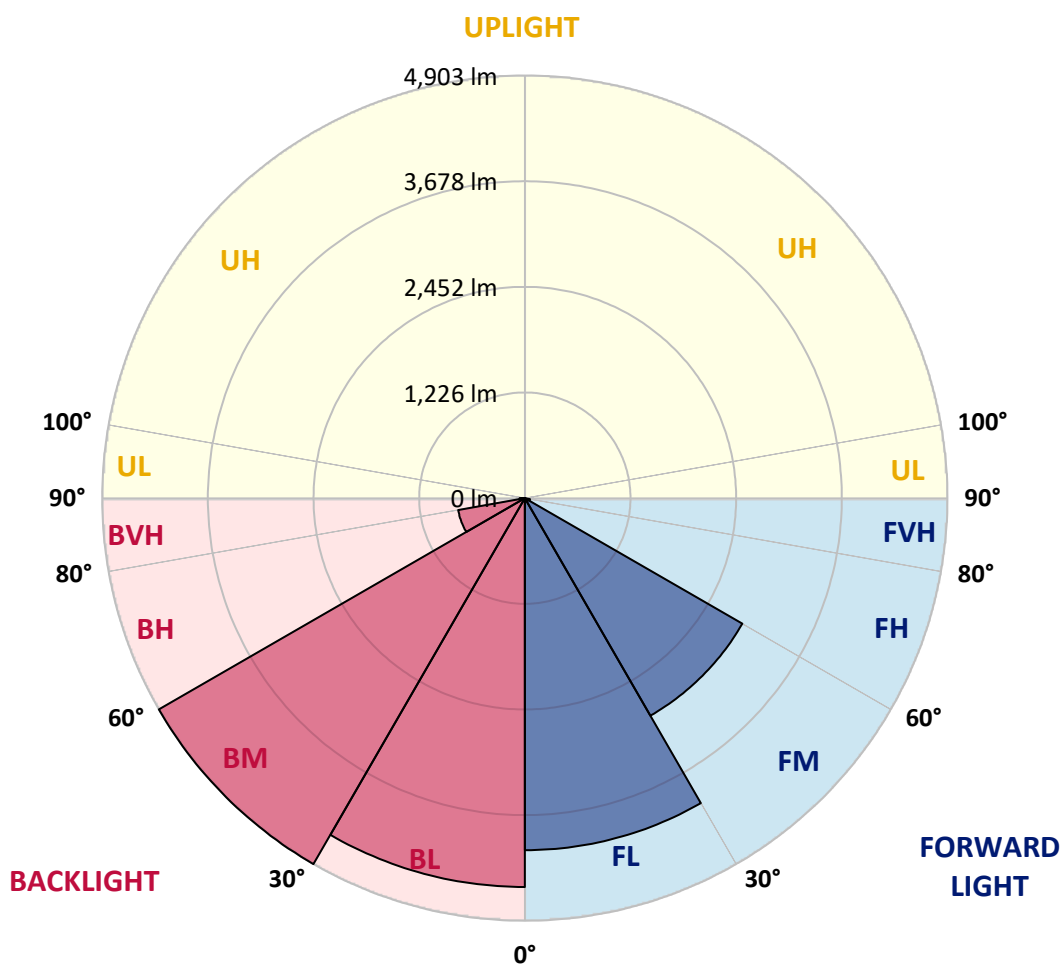
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4084.6	23.6			
FM	(30°-60°)	2914.1	16.8			
FH	(60°-80°)	61.0	0.4			G0/660
FVH	(80°-90°)	5.3	0.0			G0/10
BL	(0°-30°)	4512.2	26.0	B4/5000		
BM	(30°-60°)	4903.4	28.3	B3/5000		
BH	(60°-80°)	785.3	4.5	B2/1000		G2/1000
BVH	(80°-90°)	61.0	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G2

Type I Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	13185.8	13185.8	13185.8	13185.8	13185.8	13185.8	13185.8	13185.8	13185.8	13185.8
2.5°	13161.4	13178.5	13085.8	13095.6	13112.6	13237.1	13205.4	13176.1	13134.6	13205.4
5°	13144.4	13154.1	13056.5	13022.4	13037.0	13149.2	13046.8	13046.8	13037.0	13024.8
7.5°	13012.6	13017.5	12941.8	12880.8	12919.9	12971.1	12895.5	12932.1	12878.4	12919.9
10°	12815.0	12783.2	12693.0	12675.9	12719.8	12768.6	12717.4	12751.5	12702.7	12734.4
12.5°	12524.6	12475.8	12402.6	12380.6	12456.3	12522.2	12480.7	12461.2	12397.7	12475.8
15°	11404.6	11368.0	11534.0	11824.3	12085.4	12141.5	12097.6	12117.1	11985.4	12007.3
17.5°	9386.7	9318.4	9496.5	10184.6	11165.5	11682.8	11643.8	11516.9	11321.7	11365.6
20°	8530.3	8510.8	8491.3	8654.7	9340.4	10909.3	10963.0	10640.9	10362.7	10301.7
22.5°	8047.2	8039.8	8020.3	8056.9	8237.5	9245.2	9860.1	9562.4	9377.0	9359.9
25°	7605.5	7593.3	7534.8	7581.1	7581.1	7639.7	8427.8	8608.4	8444.9	8425.4
27.5°	7156.6	7134.6	7124.8	7146.8	7034.6	6639.3	6839.4	7720.2	7634.8	7639.7
30°	6671.0	6663.7	6636.8	6683.2	6336.7	5846.3	5719.4	6915.0	6932.1	6927.2
32.5°	5948.8	5980.5	6102.5	6153.7	5582.8	5177.7	4965.4	5982.9	6331.8	6324.5
35°	4321.3	4321.3	4719.0	5458.3	4892.2	4587.2	4472.5	5072.8	5738.9	5763.3
37.5°	3552.7	3564.9	3642.9	3979.7	4221.2	4113.9	4079.7	4270.0	4977.6	5016.7
40°	3196.4	3196.4	3196.4	3057.3	3050.0	3706.4	3686.9	3625.9	4299.3	4384.7
42.5°	2871.9	2879.2	2884.1	2532.7	2337.5	3203.7	3159.8	3067.1	3691.7	3791.8
45°	2537.6	2549.8	2564.5	2117.9	2032.5	2305.8	2674.3	2571.8	3091.5	3220.8
47.5°	1549.4	1568.9	1900.8	1795.9	1805.6	1778.8	2181.4	2164.3	2535.2	2718.2
50°	1046.8	1054.1	1085.8	1139.5	1549.4	1398.1	1544.5	1791.0	1925.2	2203.3
52.5°	878.4	890.6	812.5	739.3	1017.5	1093.1	1078.5	1329.8	1383.5	1727.5
55°	617.3	656.4	619.8	612.4	578.3	849.1	817.4	1022.4	1056.5	1312.7
57.5°	63.4	73.2	126.9	456.3	378.2	480.7	583.2	749.1	783.2	968.7
60°	4.9	4.9	12.2	63.4	275.7	287.9	402.6	461.2	527.0	675.9
62.5°	0.0	2.4	4.9	9.8	43.9	153.7	202.5	241.6	317.2	436.8
65°	0.0	0.0	2.4	7.3	9.8	58.6	78.1	126.9	173.2	270.8
67.5°	0.0	0.0	2.4	4.9	7.3	14.6	26.8	46.4	92.7	153.7
70°	0.0	0.0	2.4	4.9	7.3	12.2	19.5	29.3	41.5	83.0
72.5°	0.0	0.0	2.4	2.4	4.9	12.2	14.6	19.5	29.3	41.5
75°	0.0	0.0	2.4	2.4	7.3	14.6	12.2	14.6	19.5	26.8
77.5°	0.0	0.0	2.4	4.9	7.3	14.6	12.2	14.6	14.6	17.1
80°	0.0	0.0	2.4	4.9	9.8	17.1	14.6	14.6	12.2	12.2
82.5°	0.0	0.0	2.4	7.3	9.8	22.0	22.0	19.5	9.8	7.3
85°	0.0	0.0	4.9	9.8	14.6	24.4	24.4	19.5	7.3	4.9
87.5°	0.0	0.0	4.9	7.3	12.2	17.1	24.4	19.5	7.3	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°
13185.8	0°	13185.8	13185.8	13185.8	13185.8	13185.8	13185.8	13185.8	13185.8	13185.8
13144.4	2.5°	13210.2	13195.6	13244.4	13263.9	13290.8	13188.3	13124.8	13127.3	13010.2
12995.5	5°	13073.6	13076.0	13139.5	13134.6	13161.4	13105.3	13080.9	13039.4	12937.0
12807.6	7.5°	12900.4	12878.4	12939.4	12985.8	12917.4	12956.5	12900.4	12919.9	12858.9
12641.7	10°	12766.2	12714.9	12771.0	12802.8	12805.2	12766.2	12712.5	12661.2	12639.3
12383.1	12.5°	12468.5	12402.6	12497.8	12541.7	12534.4	12458.7	12397.7	12409.9	12339.2
11929.2	15°	12058.6	12061.0	12129.3	12170.8	12131.8	12114.7	12119.6	12090.3	12029.3
11302.2	17.5°	11431.5	11468.1	11648.6	11748.7	11770.6	11736.5	11719.4	11685.2	11624.2
10301.7	20°	10387.1	10606.7	10928.8	11238.7	11299.7	11290.0	11228.9	11214.3	11180.1
9311.1	22.5°	9469.7	9633.2	10006.5	10489.6	10738.5	10762.9	10689.7	10667.7	10631.1
8425.4	25°	8520.5	8696.2	9032.9	9557.5	10072.4	10177.3	10165.1	10099.2	10060.2
7639.7	27.5°	7720.2	7895.9	8200.9	8674.3	9225.7	9562.4	9594.1	9489.2	9486.8
6939.4	30°	6998.0	7239.5	7471.3	7856.8	8391.2	8896.3	8950.0	8876.8	8884.1
6297.7	32.5°	6431.9	6632.0	6829.6	7088.2	7532.3	8120.4	8330.2	8261.9	8235.1
5763.3	35°	5853.6	5990.2	6192.8	6429.4	6732.0	7315.2	7678.7	7627.5	7600.6
5041.1	37.5°	5194.8	5429.0	5575.4	5841.4	6078.1	6541.7	7054.1	7046.8	6990.6
4426.2	40°	4518.9	4765.3	4987.4	5255.8	5438.8	5807.2	6375.8	6373.3	6380.6
3789.3	42.5°	3906.5	4133.4	4401.8	4694.6	4870.3	5138.7	5748.7	5782.8	5824.3
3264.7	45°	3352.6	3557.5	3806.4	4162.7	4374.9	4528.7	5070.4	5226.5	5224.1
2796.3	47.5°	2854.8	3047.6	3257.4	3603.9	3874.7	4013.8	4462.8	4684.8	4670.2
2293.6	50°	2396.1	2566.9	2786.5	3037.8	3401.4	3523.4	3857.7	4150.5	4128.5
1827.6	52.5°	1927.6	2164.3	2349.7	2579.1	2962.2	3081.7	3340.4	3625.9	3608.8
1371.3	55°	1503.0	1732.4	1956.9	2154.5	2476.6	2654.7	2840.2	3133.0	3128.1
1073.6	57.5°	1137.0	1388.4	1600.6	1788.5	2044.7	2264.3	2413.2	2679.1	2713.3
734.4	60°	841.8	1034.6	1263.9	1473.8	1676.3	1903.2	2003.3	2264.3	2279.0
502.6	62.5°	573.4	785.7	1010.2	1200.5	1351.8	1586.0	1676.3	1891.0	1917.9
322.1	65°	397.7	534.4	790.6	927.2	1112.6	1312.7	1403.0	1573.8	1627.5
185.4	67.5°	263.5	380.6	617.3	741.8	924.8	1061.4	1176.1	1315.2	1373.7
117.1	70°	144.0	280.6	441.6	585.6	744.2	876.0	988.2	1100.4	1151.7
53.7	72.5°	97.6	187.9	307.4	463.6	600.2	729.6	829.6	912.6	915.0
31.7	75°	48.8	126.9	234.2	358.7	468.5	595.4	685.6	734.4	675.9
19.5	77.5°	29.3	92.7	190.3	287.9	380.6	480.7	531.9	558.8	463.6
14.6	80°	17.1	65.9	148.8	229.4	263.5	353.8	402.6	409.9	309.9
9.8	82.5°	12.2	48.8	117.1	168.4	161.0	248.9	302.6	292.8	197.6
7.3	85°	7.3	34.2	73.2	104.9	97.6	163.5	175.7	180.6	114.7
4.9	87.5°	4.9	19.5	39.0	56.1	46.4	70.8	70.8	85.4	56.1
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

180°
13185.8
12858.9
12912.6
12756.4
12541.7
12278.2
11968.3
11597.4
11102.1
10621.4
10018.7
9481.9
8847.5
8237.5
7564.0
7037.0
6380.6
5802.4
5229.0
4675.1
4148.0
3645.4
3140.3
2698.7
2300.9
1922.7
1615.3
1366.4
1132.2
893.0
632.0
446.5
290.4
183.0
104.9
48.8
0.0

(END OF REPORT)