

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: P637632

Luminaire Tested: **IFLD-L-SA8A-735-U-55-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637632
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8A-735-U-55-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 5 distribution lens and Visor
Light Source: (128) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31737.5 lumens
Efficiency: N/A
Efficacy: 128.1 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G2

Input Watts (W): 247.8
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



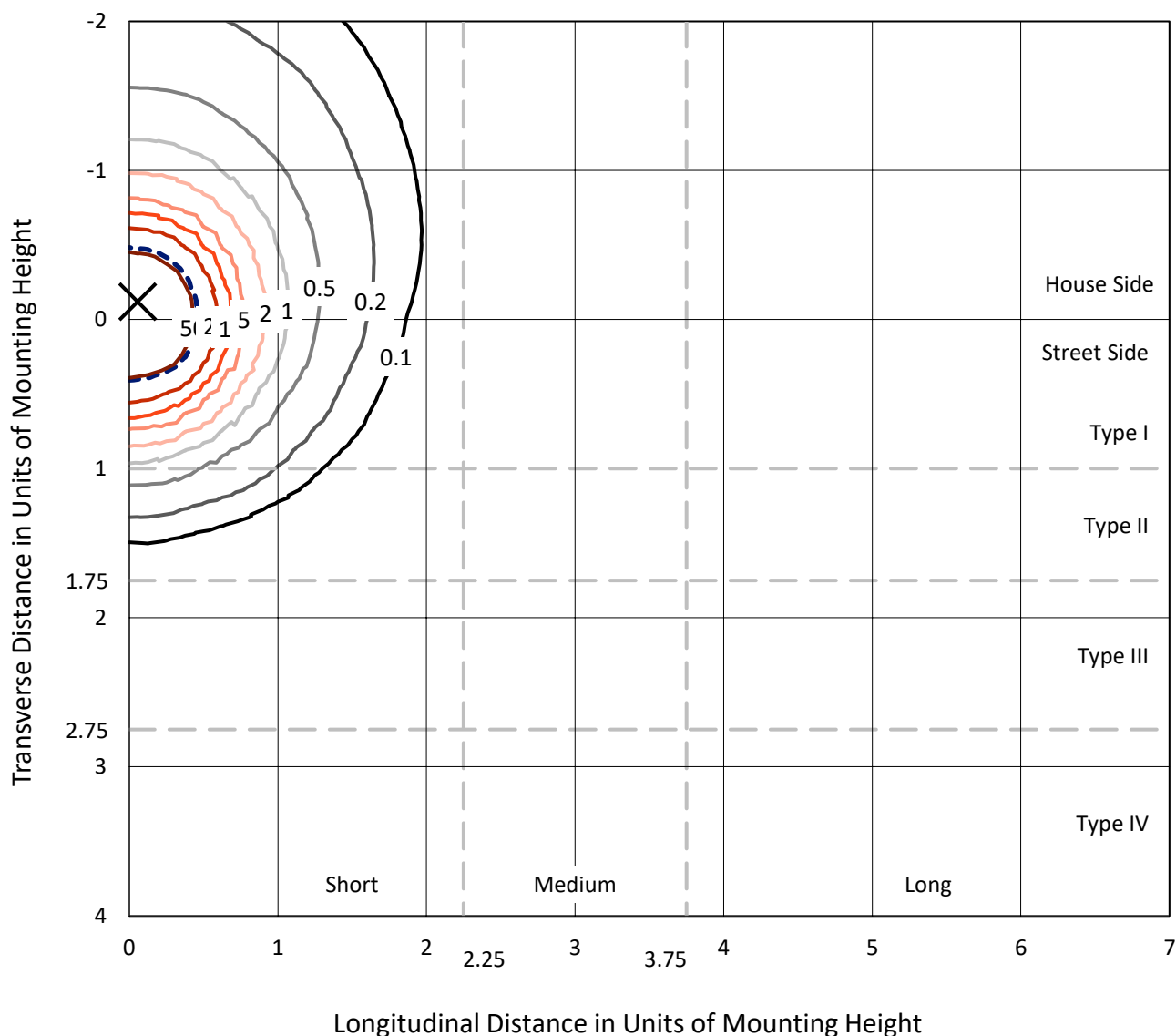
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd



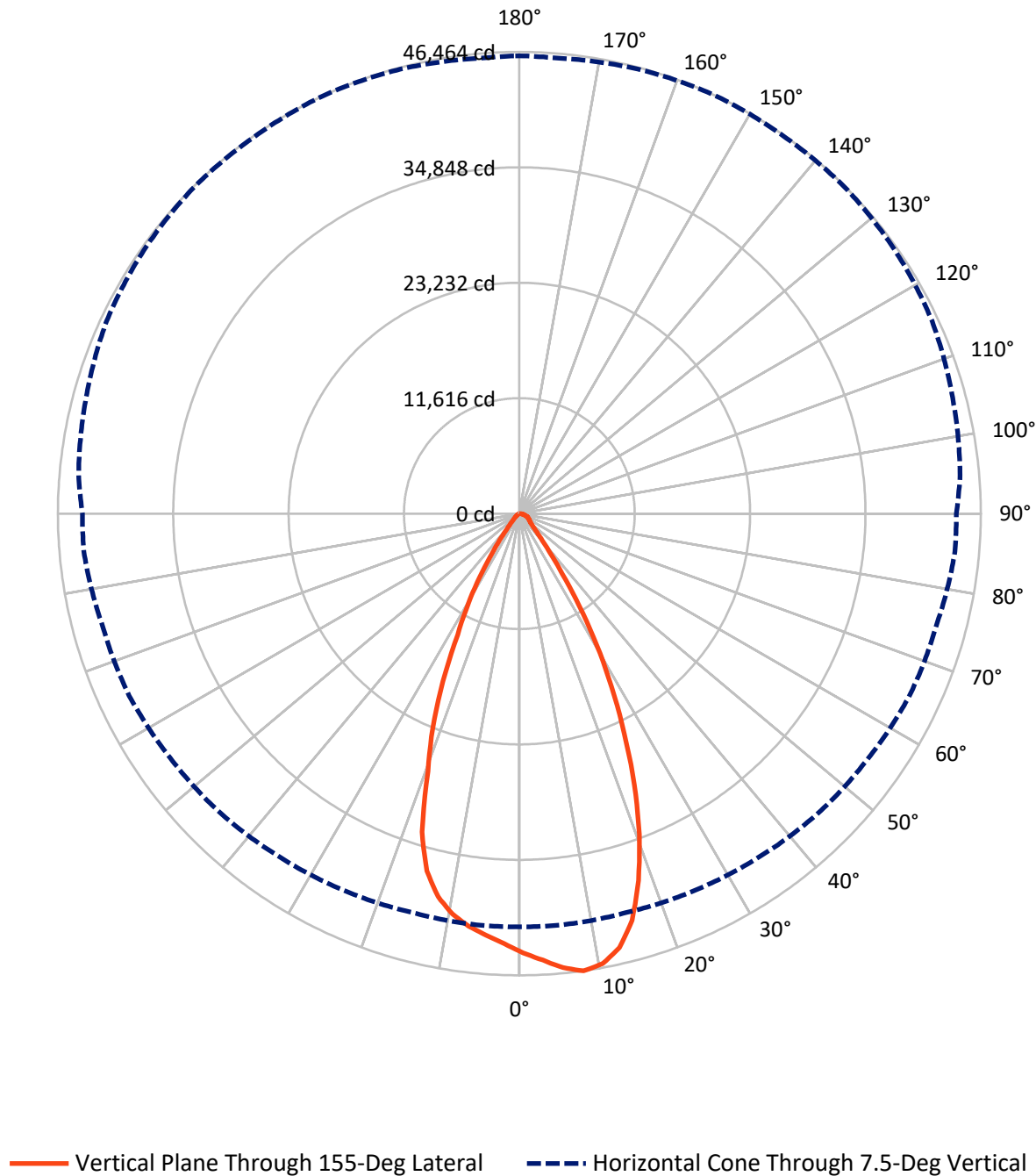
Based on 20 foot mounting height. Maximum calculated value = 112.4 fc

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	17520.2	0.0	17520.2
	% Fixture	55.2	0.0	55.2
Street Side	Lumens	14217.2	0.0	14217.2
	% Fixture	44.8	0.0	44.8
Total	Lumens	31737.5	0.0	31737.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4216.0	13.3
10°-20°	10932.0	34.4
20°-30°	10016.8	31.6
30°-40°	4046.8	12.8
40°-50°	1187.1	3.7
50°-60°	663.8	2.1
60°-70°	403.2	1.3
70°-80°	204.8	0.6
80°-90°	67.0	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°	31737.5	100.0
0°-180°	31737.5	100.0

Coefficient of Utilization



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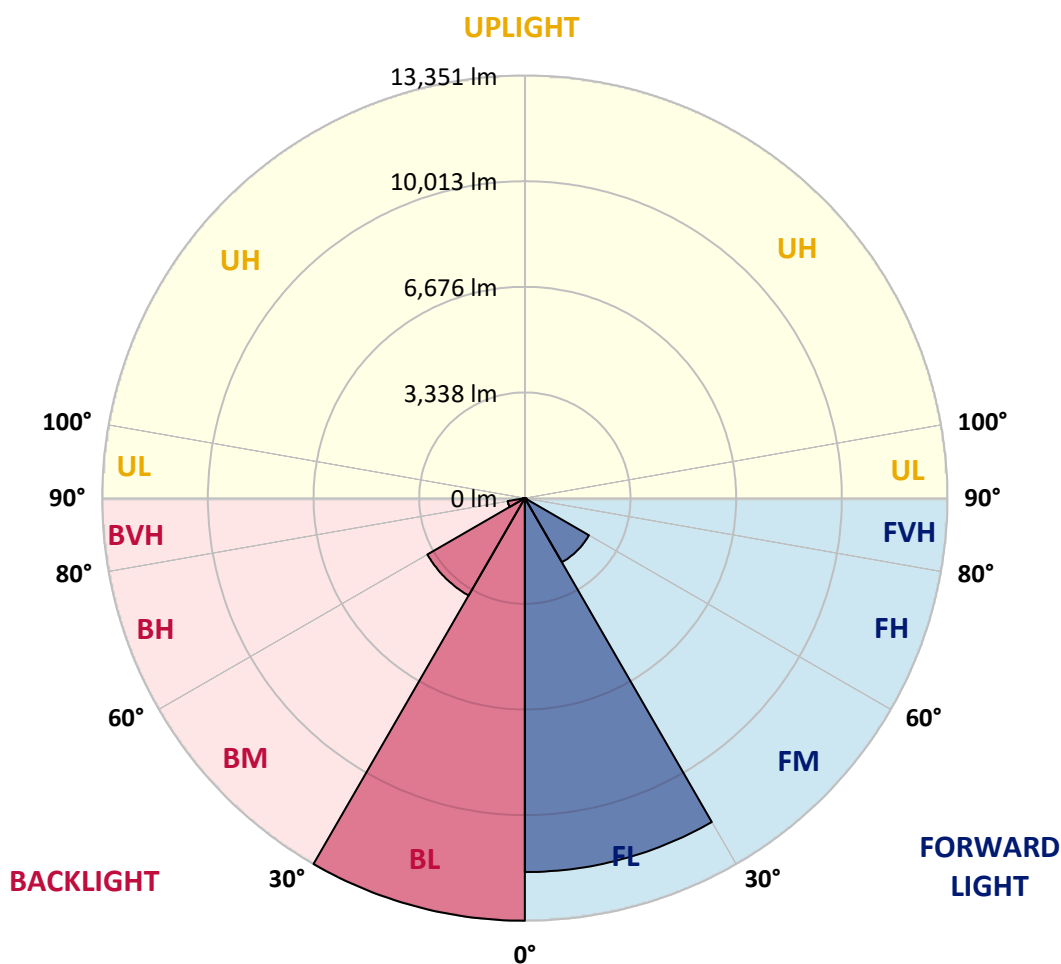
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	11813.5	37.2			
FM	(30°-60°)	2341.2	7.4			
FH	(60°-80°)	56.7	0.2			G0/660
FVH	(80°-90°)	5.8	0.0			G0/10
BL	(0°-30°)	13351.3	42.1	B5		
BM	(30°-60°)	3556.5	11.2	B3/5000		
BH	(60°-80°)	551.3	1.7	B2/1000		G2/1000
BVH	(80°-90°)	61.2	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-G2

Type I Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	44212.7	44212.7	44212.7	44212.7	44212.7	44212.7	44212.7	44212.7	44212.7	44212.7
2.5°	43253.9	43400.3	43107.5	43301.5	43451.5	43810.2	43839.5	43963.9	44007.8	44333.5
5°	42434.1	42547.6	42309.7	42569.5	42781.8	43100.2	43345.4	43689.4	43879.7	44264.0
7.5°	41581.4	41607.0	41559.5	41833.9	42152.3	42591.5	42895.3	43345.4	43462.5	44011.5
10°	40549.4	40362.7	40454.2	40856.8	41332.6	42006.0	42214.6	42664.7	42873.3	43433.2
12.5°	38902.5	38997.7	38884.2	39396.6	39791.8	40556.7	40776.3	41230.1	41629.0	42123.1
15°	36582.3	36527.4	36758.0	37156.9	37585.0	38192.6	38547.5	39041.6	39345.4	39857.7
17.5°	31367.2	31553.9	32505.4	33504.5	34382.8	35092.8	35517.3	35927.2	36146.8	36703.1
20°	27089.0	26854.8	26982.9	27546.5	30046.1	31133.0	31579.5	31678.3	31769.8	32209.0
22.5°	22305.8	22229.0	22657.2	23290.3	23883.2	26390.0	26997.6	26767.0	26957.3	27370.8
25°	16563.8	16951.7	17332.3	18547.3	19315.9	20545.5	21698.3	21800.8	21870.3	22130.2
27.5°	13482.3	13346.9	13339.6	13679.9	14814.4	15839.1	16819.9	17046.8	17006.6	17255.5
30°	10598.5	10554.6	10400.8	10481.4	10367.9	11279.2	11740.3	12673.5	12622.3	12629.6
32.5°	7645.1	7480.4	7418.2	7539.0	7421.9	7337.7	7740.2	8794.2	8775.9	8849.1
35°	4625.9	4603.9	4655.1	4761.3	4527.0	4519.7	4603.9	5595.7	5716.4	5833.6
37.5°	2554.5	2532.5	2572.8	2964.4	2887.5	2818.0	2839.9	3363.3	3710.9	3798.8
40°	1683.5	1679.8	1709.1	1778.6	1910.4	1884.7	1895.7	2129.9	2459.3	2536.2
42.5°	1127.2	1130.8	1149.1	1229.7	1248.0	1379.7	1357.7	1412.6	1720.1	1785.9
45°	900.3	896.6	907.6	871.0	893.0	1028.4	1043.0	1046.7	1310.2	1350.4
47.5°	710.0	710.0	721.0	673.4	662.4	746.6	823.4	834.4	1046.7	1101.6
50°	497.7	497.7	552.6	530.7	556.3	581.9	666.1	677.0	856.4	914.9
52.5°	366.0	373.3	380.6	384.3	468.4	464.8	538.0	589.2	647.8	750.2
55°	278.1	285.5	267.2	285.5	347.7	387.9	402.6	475.8	516.0	629.5
57.5°	183.0	201.3	186.6	219.6	234.2	300.1	322.1	391.6	417.2	516.0
60°	25.6	29.3	47.6	153.7	164.7	197.6	248.9	311.1	336.7	420.9
62.5°	3.7	3.7	11.0	25.6	109.8	131.7	186.6	215.9	248.9	314.7
65°	0.0	0.0	3.7	7.3	22.0	76.9	95.2	117.1	172.0	226.9
67.5°	0.0	0.0	3.7	7.3	11.0	25.6	40.3	76.9	98.8	157.4
70°	0.0	0.0	3.7	7.3	11.0	14.6	22.0	29.3	58.6	91.5
72.5°	0.0	0.0	3.7	7.3	11.0	14.6	18.3	22.0	25.6	58.6
75°	0.0	0.0	3.7	7.3	11.0	18.3	22.0	22.0	22.0	25.6
77.5°	0.0	0.0	3.7	7.3	14.6	22.0	25.6	22.0	18.3	18.3
80°	0.0	0.0	3.7	11.0	18.3	25.6	29.3	22.0	14.6	11.0
82.5°	0.0	0.0	3.7	11.0	18.3	25.6	29.3	25.6	14.6	11.0
85°	0.0	0.0	3.7	11.0	14.6	18.3	29.3	25.6	14.6	7.3
87.5°	0.0	0.0	0.0	3.7	3.7	7.3	14.6	11.0	7.3	3.7
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°
44212.7	0°	44212.7	44212.7	44212.7	44212.7	44212.7	44212.7	44212.7	44212.7	44212.7
44326.2	2.5°	44655.6	44820.3	45109.4	45189.9	45438.7	45153.3	44995.9	45010.6	44670.2
44216.4	5°	44655.6	45032.5	45537.6	45779.1	45962.1	45947.4	45907.2	45804.7	45555.9
43996.8	7.5°	44538.5	45153.3	45848.6	46170.7	46390.3	46372.0	46463.5	46298.8	45995.0
43605.2	10°	44161.5	44695.8	45552.2	45815.7	46170.7	46178.0	46064.6	46097.5	45555.9
42174.3	12.5°	42975.8	43393.0	44143.2	44443.3	44875.2	44944.7	44820.3	44772.7	44260.3
39828.4	15°	40681.1	40922.7	41676.6	41976.7	42404.9	42346.3	42470.7	42419.5	41969.4
36659.1	17.5°	37325.2	37402.1	38192.6	38445.1	38847.6	39005.0	38818.4	39056.2	38668.3
32285.8	20°	32512.7	32926.3	33815.6	34203.5	34437.7	34719.5	34474.3	34741.5	34287.7
26979.3	22.5°	27630.7	27875.9	28681.0	29240.9	29676.4	29731.3	29639.9	29826.5	29215.3
22302.2	25°	22298.5	22704.7	23341.5	24073.5	24501.6	24765.1	24527.3	24648.0	24549.2
17295.7	27.5°	17588.5	17950.8	18430.2	18975.5	19619.6	19963.6	19773.3	19978.3	19495.2
12896.8	30°	12907.7	13090.7	13632.4	14210.6	14916.9	15334.1	15352.4	15561.0	15275.6
9035.8	32.5°	9101.7	9262.7	9595.7	9980.0	10653.4	11118.1	11045.0	11074.2	10898.6
5888.4	35°	5917.7	6133.6	6371.5	6554.5	6960.7	7473.1	7432.8	7396.2	7275.5
3872.0	37.5°	3956.1	4040.3	4172.0	4336.7	4600.2	4922.3	5028.4	4896.7	4845.4
2613.0	40°	2675.2	2821.6	2909.5	3033.9	3158.3	3429.1	3502.3	3476.7	3425.5
1829.8	42.5°	1899.4	2012.8	2122.6	2243.4	2309.3	2477.6	2620.3	2580.1	2558.1
1390.7	45°	1441.9	1544.4	1672.5	1764.0	1829.8	1928.7	2064.1	2078.7	2045.8
1116.2	47.5°	1156.5	1248.0	1350.4	1463.9	1540.7	1602.9	1720.1	1764.0	1742.0
940.5	50°	980.8	1050.3	1149.1	1262.6	1346.8	1401.7	1504.1	1551.7	1537.1
786.8	52.5°	834.4	918.6	1010.1	1105.2	1207.7	1262.6	1357.7	1427.3	1416.3
651.4	55°	691.7	801.5	896.6	991.8	1108.9	1163.8	1248.0	1339.4	1321.1
552.6	57.5°	603.8	695.3	794.2	885.6	1010.1	1083.3	1160.1	1255.3	1251.6
453.8	60°	505.0	596.5	706.3	783.2	914.9	1017.4	1086.9	1185.7	1193.1
344.0	62.5°	402.6	516.0	600.2	706.3	827.1	947.9	1013.7	1112.5	1149.1
263.5	65°	300.1	424.5	519.7	625.8	739.3	874.7	933.2	1032.0	1068.6
190.3	67.5°	223.2	318.4	439.2	530.7	658.7	775.9	845.4	936.9	962.5
113.5	70°	168.3	245.2	366.0	446.5	578.2	673.4	742.9	812.5	845.4
76.9	72.5°	98.8	183.0	289.1	384.3	497.7	578.2	629.5	684.4	706.3
36.6	75°	69.5	139.1	226.9	318.4	402.6	468.4	516.0	563.6	585.6
18.3	77.5°	36.6	102.5	179.3	256.2	314.7	369.6	417.2	453.8	468.4
14.6	80°	22.0	73.2	146.4	201.3	241.5	289.1	336.7	362.3	358.6
11.0	82.5°	14.6	58.6	106.1	146.4	175.7	212.3	245.2	263.5	263.5
7.3	85°	11.0	40.3	73.2	113.5	117.1	146.4	153.7	172.0	175.7
7.3	87.5°	7.3	25.6	40.3	65.9	62.2	76.9	80.5	91.5	98.8
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

180°
44212.7
44395.7
45636.4
46064.6
45398.5
44143.2
42112.1
38573.2
34251.1
29131.2
24487.0
19619.6
15326.8
10997.4
7169.3
4834.5
3432.8
2539.8
2042.1
1731.0
1533.4
1409.0
1321.1
1248.0
1193.1
1145.5
1065.0
962.5
838.1
699.0
578.2
464.8
355.0
259.8
172.0
95.2
0.0

(END OF REPORT)