

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: P637775

Luminaire Tested: **IFLD-L-SA7D-830-U-55-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637775
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7D-830-U-55-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 5 distribution lens and Visor
Light Source: (112) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 36408.7 lumens
Efficiency: N/A
Efficacy: 86.2 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): 422.6
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



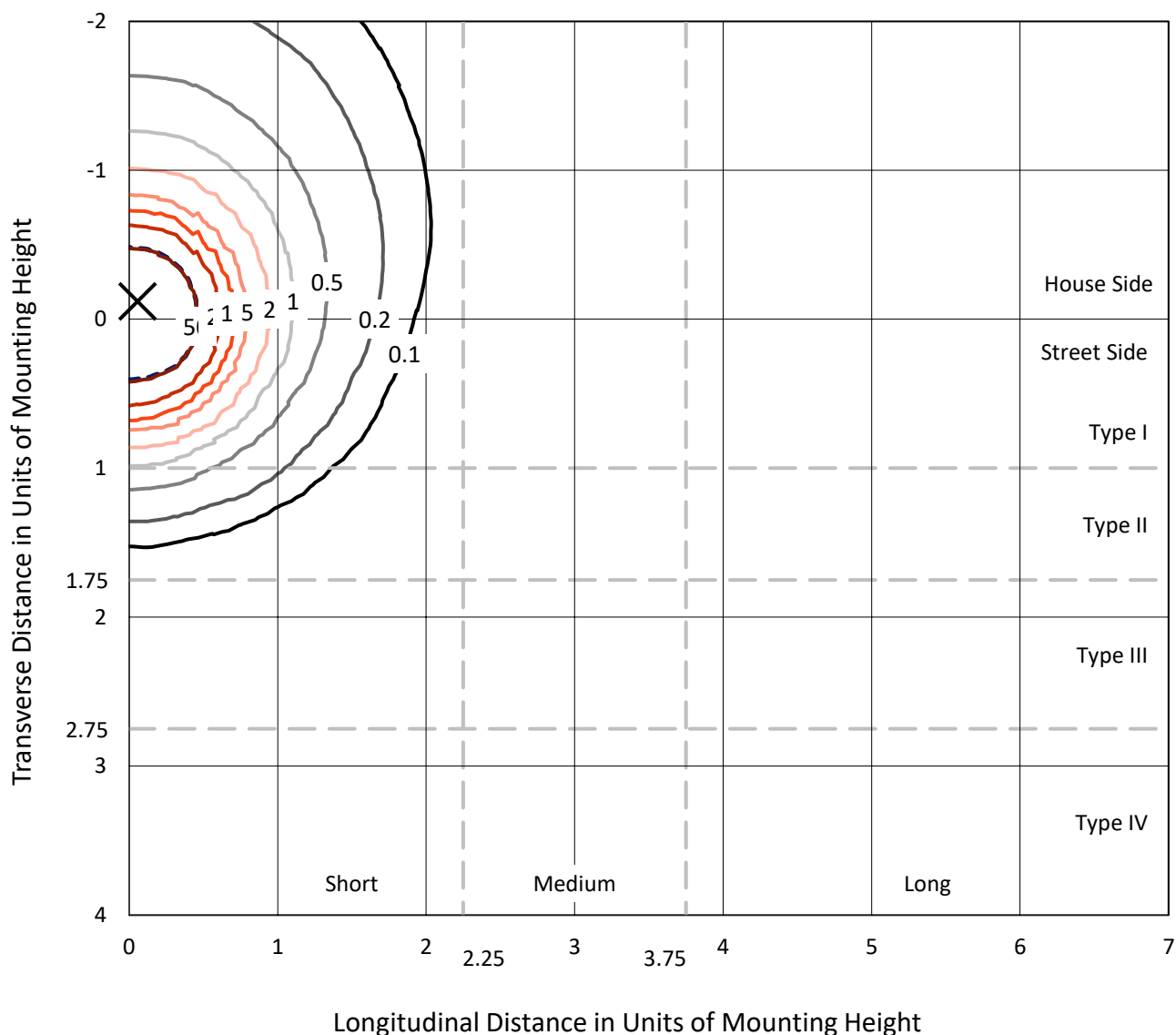
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd



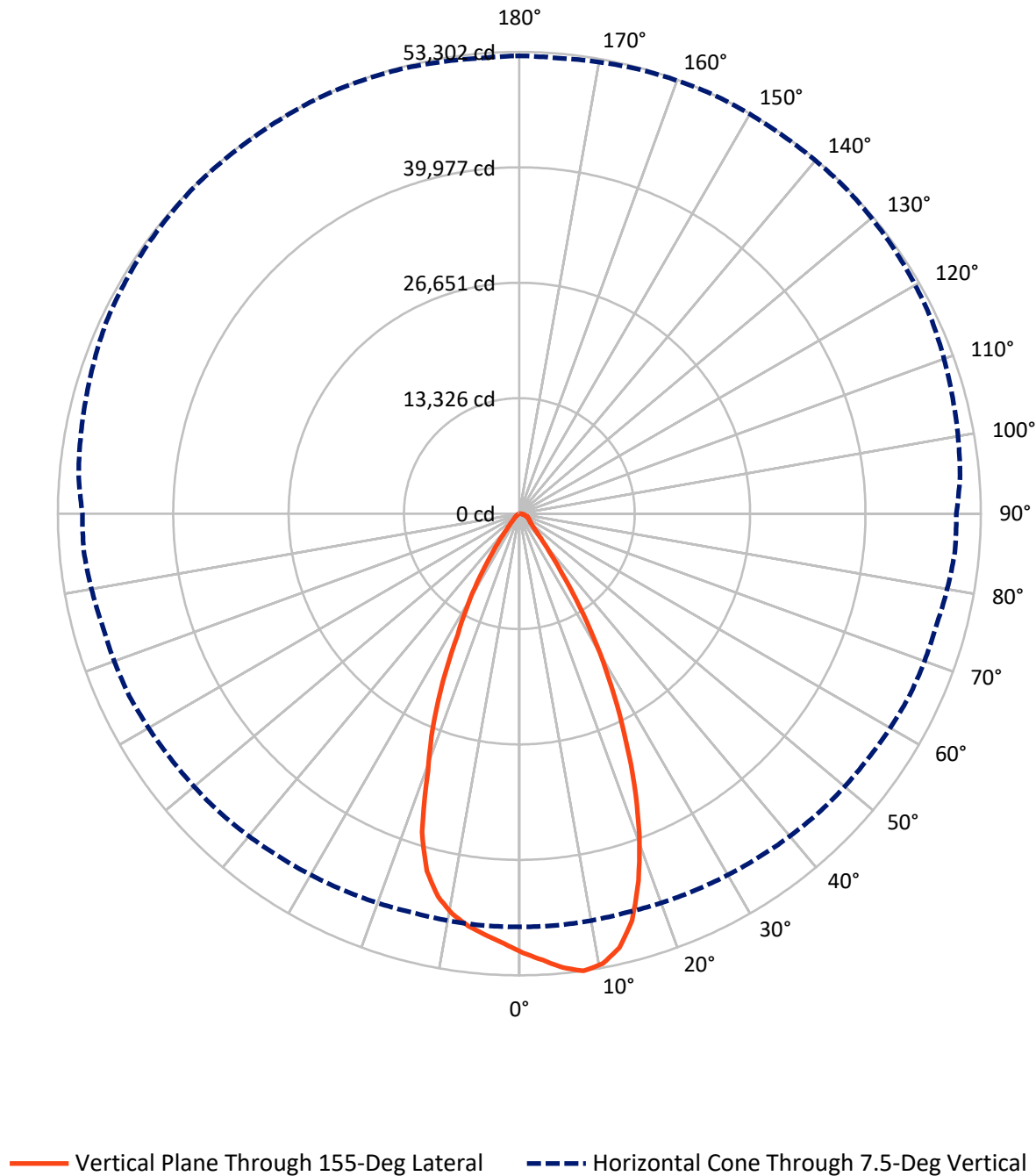
Based on 20 foot mounting height. Maximum calculated value = 128.9 fc

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	20099.0	0.0	20099.0
	% Fixture	55.2	0.0	55.2
Street Side	Lumens	16309.8	0.0	16309.8
	% Fixture	44.8	0.0	44.8
Total	Lumens	36408.7	0.0	36408.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4836.5	13.3
10°-20°	12541.1	34.4
20°-30°	11491.1	31.6
30°-40°	4642.4	12.8
40°-50°	1361.9	3.7
50°-60°	761.4	2.1
60°-70°	462.5	1.3
70°-80°	235.0	0.6
80°-90°	76.9	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°	36408.7	100.0
0°-180°	36408.7	100.0

Coefficient of Utilization



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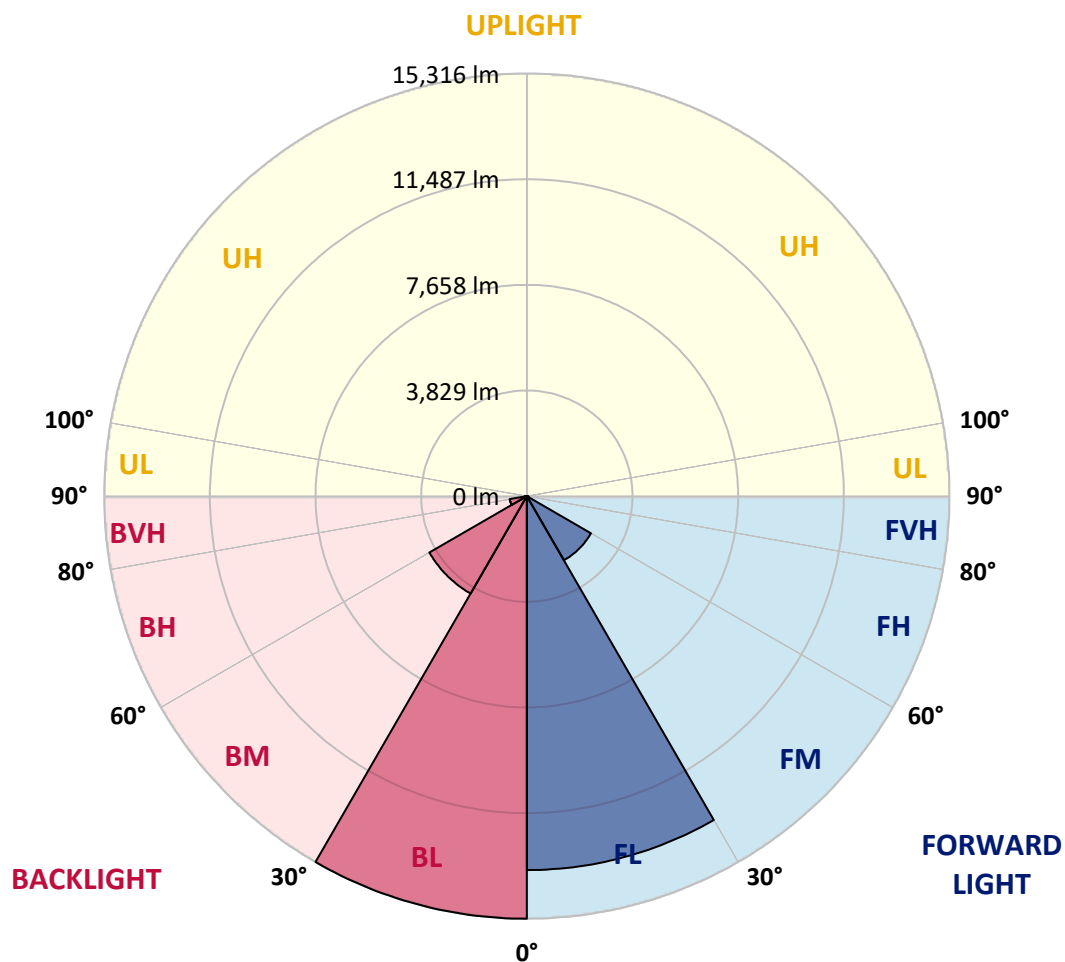
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	13552.3	37.2			
FM	(30°-60°)	2685.8	7.4			
FH	(60°-80°)	65.1	0.2			G0/660
FVH	(80°-90°)	6.7	0.0			G0/10
BL	(0°-30°)	15316.4	42.1	B5		
BM	(30°-60°)	4079.9	11.2	B3/5000		
BH	(60°-80°)	632.4	1.7	B2/1000		G2/1000
BVH	(80°-90°)	70.2	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°	50720.2	50720.2	50720.2	50720.2	50720.2	50720.2	50720.2	50720.2	50720.2	50720.2
2.5°	49620.2	49788.2	49452.3	49674.8	49846.9	50258.4	50292.0	50434.7	50485.1	50858.7
5°	48679.8	48809.9	48537.1	48835.1	49078.6	49443.9	49725.2	50119.8	50338.1	50779.0
7.5°	47701.6	47731.0	47676.4	47991.3	48356.5	48860.3	49208.8	49725.2	49859.5	50489.3
10°	46517.6	46303.5	46408.5	46870.3	47416.1	48188.6	48427.9	48944.3	49183.6	49825.9
12.5°	44628.4	44737.6	44607.4	45195.2	45648.6	46526.0	46777.9	47298.5	47756.2	48322.9
15°	41966.6	41903.7	42168.2	42625.8	43117.0	43813.9	44221.2	44787.9	45136.4	45724.2
17.5°	35984.0	36198.1	37289.7	38435.8	39443.4	40257.9	40744.9	41215.1	41467.0	42105.2
20°	31076.1	30807.4	30954.4	31600.9	34468.4	35715.3	36227.5	36340.9	36445.8	36949.6
22.5°	25588.9	25500.7	25991.9	26718.3	27398.4	30274.3	30971.2	30706.7	30925.0	31399.4
25°	19001.7	19446.7	19883.4	21277.2	22158.9	23569.5	24892.0	25009.5	25089.3	25387.4
27.5°	15466.7	15311.4	15303.0	15693.4	16994.9	18170.4	19295.6	19555.9	19509.7	19795.2
30°	12158.4	12108.0	11931.7	12024.1	11893.9	12939.3	13468.3	14538.9	14480.1	14488.5
32.5°	8770.3	8581.4	8510.0	8648.6	8514.2	8417.7	8879.5	10088.6	10067.6	10151.6
35°	5306.7	5281.5	5340.3	5462.0	5193.4	5185.0	5281.5	6419.3	6557.8	6692.2
37.5°	2930.4	2905.3	2951.4	3400.7	3312.5	3232.7	3257.9	3858.3	4257.1	4357.9
40°	1931.2	1927.0	1960.6	2040.4	2191.5	2162.1	2174.7	2443.4	2821.3	2909.5
42.5°	1293.1	1297.3	1318.3	1410.6	1431.6	1582.8	1557.6	1620.6	1973.2	2048.8
45°	1032.8	1028.6	1041.2	999.2	1024.4	1179.7	1196.5	1200.7	1503.0	1549.2
47.5°	814.5	814.5	827.1	772.5	759.9	856.5	944.6	957.2	1200.7	1263.7
50°	571.0	571.0	633.9	608.8	638.1	667.5	764.1	776.7	982.4	1049.6
52.5°	419.8	428.2	436.6	440.8	537.4	533.2	617.2	675.9	743.1	860.7
55°	319.1	327.5	306.5	327.5	398.8	445.0	461.8	545.8	592.0	722.1
57.5°	209.9	230.9	214.1	251.9	268.7	344.3	369.5	449.2	478.6	592.0
60°	29.4	33.6	54.6	176.3	188.9	226.7	285.5	356.9	386.2	482.8
62.5°	4.2	4.2	12.6	29.4	126.0	151.1	214.1	247.7	285.5	361.1
65°	0.0	0.0	4.2	8.4	25.2	88.2	109.2	134.3	197.3	260.3
67.5°	0.0	0.0	4.2	8.4	12.6	29.4	46.2	88.2	113.4	180.5
70°	0.0	0.0	4.2	8.4	12.6	16.8	25.2	33.6	67.2	105.0
72.5°	0.0	0.0	4.2	8.4	12.6	16.8	21.0	25.2	29.4	67.2
75°	0.0	0.0	4.2	8.4	12.6	21.0	25.2	25.2	25.2	29.4
77.5°	0.0	0.0	4.2	8.4	16.8	25.2	29.4	25.2	21.0	21.0
80°	0.0	0.0	4.2	12.6	21.0	29.4	33.6	25.2	16.8	12.6
82.5°	0.0	0.0	4.2	12.6	21.0	29.4	33.6	29.4	16.8	12.6
85°	0.0	0.0	4.2	12.6	16.8	21.0	33.6	29.4	16.8	8.4
87.5°	0.0	0.0	0.0	4.2	4.2	8.4	16.8	12.6	8.4	4.2
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°
50720.2	0°	50720.2	50720.2	50720.2	50720.2	50720.2	50720.2	50720.2	50720.2	50720.2
50850.3	2.5°	51228.2	51417.1	51748.8	51841.1	52126.6	51799.2	51618.6	51635.4	51245.0
50724.4	5°	51228.2	51660.6	52240.0	52517.1	52727.0	52710.2	52664.0	52546.5	52261.0
50472.5	7.5°	51093.8	51799.2	52596.9	52966.3	53218.2	53197.2	53302.2	53113.2	52764.8
50023.3	10°	50661.4	51274.4	52256.8	52559.1	52966.3	52974.7	52844.6	52882.3	52261.0
48381.7	12.5°	49301.2	49779.8	50640.4	50984.7	51480.1	51559.9	51417.1	51362.5	50774.8
45690.6	15°	46668.8	46945.9	47810.7	48155.0	48646.2	48579.0	48721.8	48663.0	48146.6
42054.8	17.5°	42818.9	42907.1	43813.9	44103.6	44565.4	44745.9	44531.8	44804.7	44359.7
37037.8	20°	37298.1	37772.5	38792.7	39237.7	39506.4	39829.7	39548.4	39854.9	39334.3
30950.2	22.5°	31697.5	31978.8	32902.4	33544.8	34044.4	34107.3	34002.4	34216.5	33515.4
25584.7	25°	25580.5	26046.5	26777.0	27616.7	28107.9	28410.2	28137.3	28275.8	28162.5
19841.4	27.5°	20177.2	20592.9	21142.9	21768.4	22507.3	22902.0	22683.7	22918.8	22364.6
14795.0	30°	14807.6	15017.5	15638.8	16302.2	17112.4	17591.1	17612.1	17851.4	17523.9
10365.7	32.5°	10441.3	10626.0	11008.1	11448.9	12221.4	12754.6	12670.6	12704.2	12502.7
6755.1	35°	6788.7	7036.4	7309.3	7519.2	7985.2	8573.0	8526.8	8484.9	8346.3
4441.8	37.5°	4538.4	4635.0	4786.1	4975.0	5277.3	5646.8	5768.5	5617.4	5558.6
2997.6	40°	3069.0	3236.9	3337.7	3480.4	3623.2	3933.8	4017.8	3988.4	3929.6
2099.2	42.5°	2178.9	2309.1	2435.0	2573.6	2649.2	2842.3	3006.0	2959.8	2934.6
1595.4	45°	1654.1	1771.7	1918.6	2023.6	2099.2	2212.5	2367.9	2384.7	2346.9
1280.5	47.5°	1326.7	1431.6	1549.2	1679.3	1767.5	1838.9	1973.2	2023.6	1998.4
1079.0	50°	1125.2	1204.9	1318.3	1448.4	1545.0	1608.0	1725.5	1780.1	1763.3
902.6	52.5°	957.2	1053.8	1158.7	1267.9	1385.5	1448.4	1557.6	1637.4	1624.8
747.3	55°	793.5	919.4	1028.6	1137.8	1272.1	1335.1	1431.6	1536.6	1515.6
633.9	57.5°	692.7	797.7	911.0	1016.0	1158.7	1242.7	1330.9	1440.0	1435.8
520.6	60°	579.4	684.3	810.3	898.4	1049.6	1167.1	1246.9	1360.3	1368.7
394.6	62.5°	461.8	592.0	688.5	810.3	948.8	1087.4	1162.9	1276.3	1318.3
302.3	65°	344.3	487.0	596.2	717.9	848.1	1003.4	1070.6	1183.9	1225.9
218.3	67.5°	256.1	365.3	503.8	608.8	755.7	890.0	969.8	1074.8	1104.2
130.1	70°	193.1	281.3	419.8	512.2	663.3	772.5	852.3	932.0	969.8
88.2	72.5°	113.4	209.9	331.7	440.8	571.0	663.3	722.1	785.1	810.3
42.0	75°	79.8	159.5	260.3	365.3	461.8	537.4	592.0	646.5	671.7
21.0	77.5°	42.0	117.6	205.7	293.9	361.1	424.0	478.6	520.6	537.4
16.8	80°	25.2	84.0	167.9	230.9	277.1	331.7	386.2	415.6	411.4
12.6	82.5°	16.8	67.2	121.8	167.9	201.5	243.5	281.3	302.3	302.3
8.4	85°	12.6	46.2	84.0	130.1	134.3	167.9	176.3	197.3	201.5
8.4	87.5°	8.4	29.4	46.2	75.6	71.4	88.2	92.4	105.0	113.4
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

180°
50720.2
50930.1
52353.3
52844.6
52080.5
50640.4
48310.3
44250.5
39292.3
33418.8
28091.1
22507.3
17582.7
12616.0
8224.6
5546.0
3938.0
2913.7
2342.7
1985.8
1759.1
1616.4
1515.6
1431.6
1368.7
1314.1
1221.7
1104.2
961.4
801.9
663.3
533.2
407.2
298.1
197.3
109.2
0.0

(END OF REPORT)