

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: P637752

Luminaire Tested: **IFLD-S-SA2A-830-U-55-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637752
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2A-830-U-55-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 5 distribution lens and Visor
Light Source: (32) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6891 lumens
Efficiency: N/A
Efficacy: 108.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B4 - U0 - G1

Input Watts (W): 63.8
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



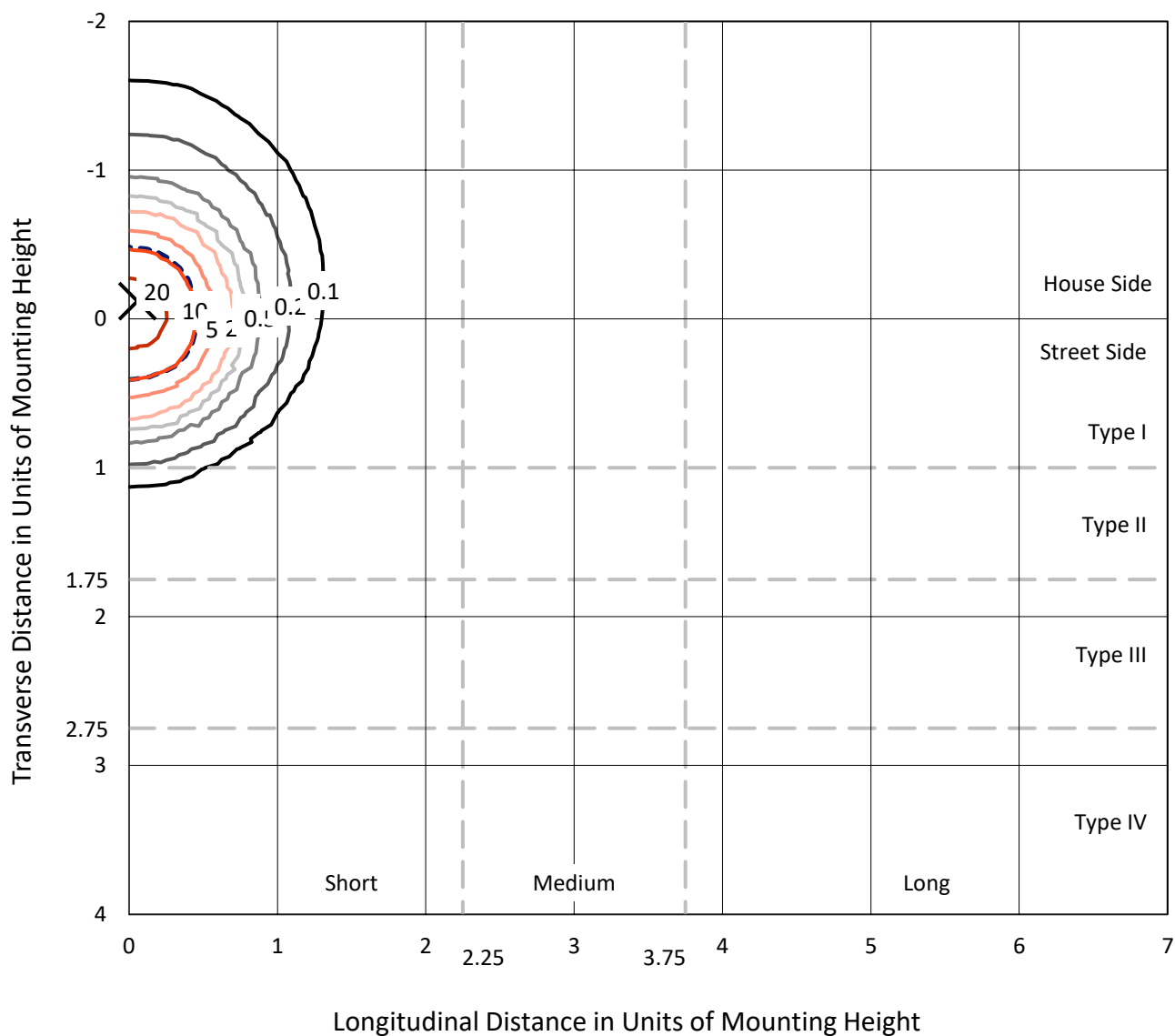
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

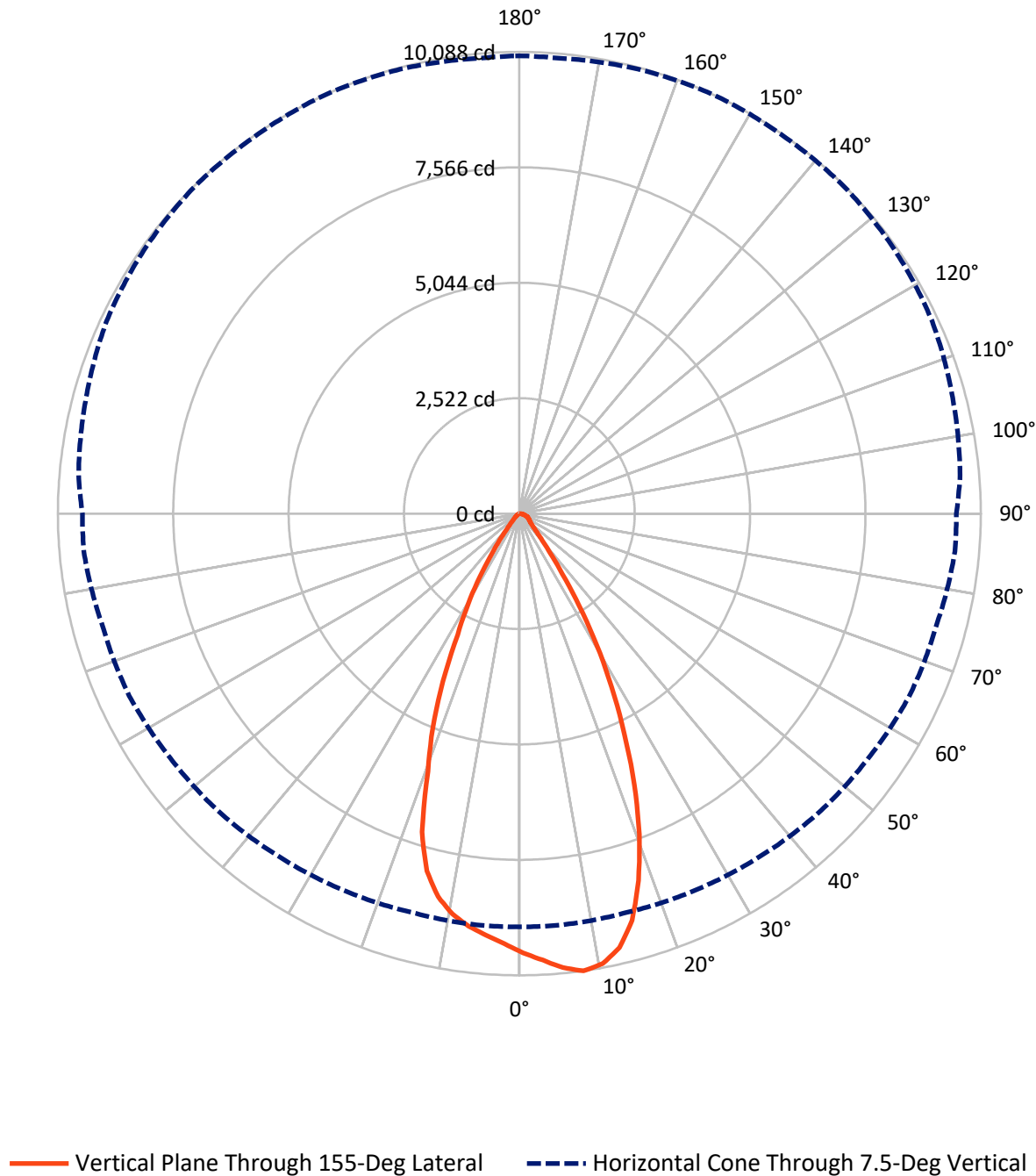


Based on 20 foot mounting height. Maximum calculated value = 24.4 fc

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	3804.0	0.0	3804.0
	% Fixture	55.2	0.0	55.2
Street Side	Lumens	3086.9	0.0	3086.9
	% Fixture	44.8	0.0	44.8
Total	Lumens	6891.0	0.0	6891.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	915.4	13.3
10°-20°	2373.6	34.4
20°-30°	2174.9	31.6
30°-40°	878.6	12.8
40°-50°	257.8	3.7
50°-60°	144.1	2.1
60°-70°	87.5	1.3
70°-80°	44.5	0.6
80°-90°	14.6	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°	6891.0	100.0
0°-180°	6891.0	100.0

Coefficient of Utilization



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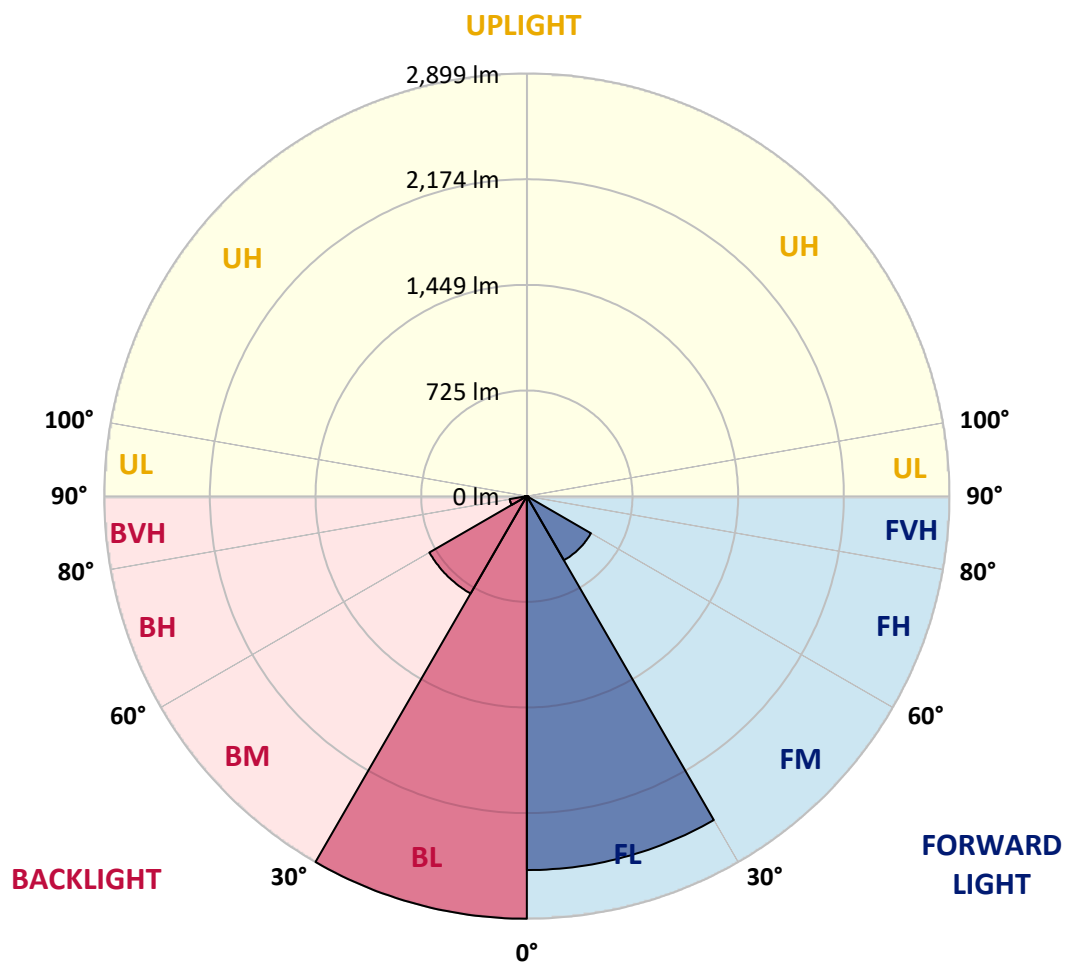
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2565.0	37.2			
FM	(30°-60°)	508.3	7.4			
FH	(60°-80°)	12.3	0.2			G0/660
FVH	(80°-90°)	1.3	0.0			G0/10
BL	(0°-30°)	2898.9	42.1	B4/5000		
BM	(30°-60°)	772.2	11.2	B1/1000		
BH	(60°-80°)	119.7	1.7	B1/500		G1/500
BVH	(80°-90°)	13.3	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 I Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	9599.6	9599.6	9599.6	9599.6	9599.6	9599.6	9599.6	9599.6	9599.6	9599.6
2.5°	9391.4	9423.2	9359.6	9401.8	9434.3	9512.2	9518.6	9545.6	9555.1	9625.8
5°	9213.4	9238.1	9186.4	9242.8	9288.9	9358.0	9411.3	9486.0	9527.3	9610.7
7.5°	9028.3	9033.8	9023.5	9083.1	9152.2	9247.6	9313.5	9411.3	9436.7	9555.9
10°	8804.2	8763.7	8783.5	8871.0	8974.3	9120.5	9165.8	9263.5	9308.8	9430.4
12.5°	8446.6	8467.3	8442.7	8553.9	8639.7	8805.8	8853.5	8952.0	9038.6	9145.9
15°	7942.9	7930.9	7981.0	8067.6	8160.6	8292.5	8369.6	8476.8	8542.8	8654.0
17.5°	6810.5	6851.1	7057.7	7274.6	7465.3	7619.5	7711.6	7800.6	7848.3	7969.1
20°	5881.7	5830.8	5858.6	5981.0	6523.7	6759.7	6856.6	6878.1	6898.0	6993.3
22.5°	4843.1	4826.4	4919.4	5056.9	5185.6	5729.9	5861.8	5811.7	5853.1	5942.8
25°	3596.4	3680.6	3763.2	4027.1	4193.9	4460.9	4711.2	4733.5	4748.6	4805.0
27.5°	2927.3	2897.9	2896.3	2970.2	3216.6	3439.0	3652.0	3701.3	3692.5	3746.6
30°	2301.2	2291.6	2258.3	2275.7	2251.1	2449.0	2549.1	2751.7	2740.6	2742.2
32.5°	1659.9	1624.2	1610.7	1636.9	1611.5	1593.2	1680.6	1909.4	1905.5	1921.4
35°	1004.4	999.6	1010.7	1033.8	982.9	981.3	999.6	1214.9	1241.2	1266.6
37.5°	554.6	549.9	558.6	643.6	626.9	611.8	616.6	730.2	805.7	824.8
40°	365.5	364.7	371.1	386.2	414.8	409.2	411.6	462.5	534.0	550.7
42.5°	244.7	245.5	249.5	267.0	271.0	299.6	294.8	306.7	373.5	387.8
45°	195.5	194.7	197.1	189.1	193.9	223.3	226.5	227.3	284.5	293.2
47.5°	154.2	154.2	156.5	146.2	143.8	162.1	178.8	181.2	227.3	239.2
50°	108.1	108.1	120.0	115.2	120.8	126.3	144.6	147.0	185.9	198.7
52.5°	79.5	81.0	82.6	83.4	101.7	100.9	116.8	127.9	140.6	162.9
55°	60.4	62.0	58.0	62.0	75.5	84.2	87.4	103.3	112.0	136.7
57.5°	39.7	43.7	40.5	47.7	50.9	65.2	69.9	85.0	90.6	112.0
60°	5.6	6.4	10.3	33.4	35.8	42.9	54.0	67.5	73.1	91.4
62.5°	0.8	0.8	2.4	5.6	23.8	28.6	40.5	46.9	54.0	68.3
65°	0.0	0.0	0.8	1.6	4.8	16.7	20.7	25.4	37.3	49.3
67.5°	0.0	0.0	0.8	1.6	2.4	5.6	8.7	16.7	21.5	34.2
70°	0.0	0.0	0.8	1.6	2.4	3.2	4.8	6.4	12.7	19.9
72.5°	0.0	0.0	0.8	1.6	2.4	3.2	4.0	4.8	5.6	12.7
75°	0.0	0.0	0.8	1.6	2.4	4.0	4.8	4.8	4.8	5.6
77.5°	0.0	0.0	0.8	1.6	3.2	4.8	5.6	4.8	4.0	4.0
80°	0.0	0.0	0.8	2.4	4.0	5.6	6.4	4.8	3.2	2.4
82.5°	0.0	0.0	0.8	2.4	4.0	5.6	6.4	5.6	3.2	2.4
85°	0.0	0.0	0.8	2.4	3.2	4.0	6.4	5.6	3.2	1.6
87.5°	0.0	0.0	0.0	0.8	0.8	1.6	3.2	2.4	1.6	0.8
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°
9599.6	0°	9599.6	9599.6	9599.6	9599.6	9599.6	9599.6	9599.6	9599.6	9599.6
9624.2	2.5°	9695.8	9731.5	9794.3	9811.8	9865.8	9803.8	9769.7	9772.8	9698.9
9600.4	5°	9695.8	9777.6	9887.3	9939.7	9979.4	9976.2	9967.5	9945.3	9891.2
9552.7	7.5°	9670.3	9803.8	9954.8	10024.7	10072.4	10068.4	10088.3	10052.5	9986.6
9467.7	10°	9588.5	9704.5	9890.4	9947.6	10024.7	10026.3	10001.7	10008.8	9891.2
9157.0	12.5°	9331.0	9421.6	9584.5	9649.7	9743.4	9758.5	9731.5	9721.2	9609.9
8647.7	15°	8832.8	8885.3	9048.9	9114.1	9207.1	9194.4	9221.4	9210.3	9112.5
7959.5	17.5°	8104.2	8120.8	8292.5	8347.3	8434.7	8468.9	8428.4	8480.0	8395.8
7010.0	20°	7059.3	7149.0	7342.1	7426.4	7477.2	7538.4	7485.2	7543.2	7444.6
5857.8	22.5°	5999.3	6052.5	6227.3	6348.9	6443.4	6455.4	6435.5	6476.0	6343.3
4842.3	25°	4841.5	4929.7	5068.0	5226.9	5319.9	5377.1	5325.4	5351.7	5330.2
3755.3	27.5°	3818.9	3897.5	4001.6	4120.0	4259.9	4334.6	4293.2	4337.7	4232.9
2800.2	30°	2802.6	2842.3	2959.9	3085.4	3238.8	3329.4	3333.4	3378.7	3316.7
1961.9	32.5°	1976.2	2011.1	2083.5	2166.9	2313.1	2414.0	2398.1	2404.5	2366.3
1278.5	35°	1284.9	1331.8	1383.4	1423.1	1511.3	1622.6	1613.8	1605.9	1579.7
840.7	37.5°	859.0	877.2	905.8	941.6	998.8	1068.7	1091.8	1063.2	1052.1
567.3	40°	580.9	612.6	631.7	658.7	685.7	744.5	760.4	754.9	743.7
397.3	42.5°	412.4	437.0	460.9	487.1	501.4	537.9	568.9	560.2	555.4
301.9	45°	313.1	335.3	363.1	383.0	397.3	418.8	448.2	451.3	444.2
242.4	47.5°	251.1	271.0	293.2	317.8	334.5	348.0	373.5	383.0	378.2
204.2	50°	213.0	228.1	249.5	274.1	292.4	304.3	326.6	336.9	333.7
170.8	52.5°	181.2	199.4	219.3	240.0	262.2	274.1	294.8	309.9	307.5
141.4	55°	150.2	174.0	194.7	215.3	240.8	252.7	271.0	290.8	286.9
120.0	57.5°	131.1	151.0	172.4	192.3	219.3	235.2	251.9	272.5	271.8
98.5	60°	109.7	129.5	153.4	170.0	198.7	220.9	236.0	257.5	259.0
74.7	62.5°	87.4	112.0	130.3	153.4	179.6	205.8	220.1	241.6	249.5
57.2	65°	65.2	92.2	112.8	135.9	160.5	189.9	202.6	224.1	232.0
41.3	67.5°	48.5	69.1	95.4	115.2	143.0	168.5	183.6	203.4	209.0
24.6	70°	36.6	53.2	79.5	96.9	125.5	146.2	161.3	176.4	183.6
16.7	72.5°	21.5	39.7	62.8	83.4	108.1	125.5	136.7	148.6	153.4
7.9	75°	15.1	30.2	49.3	69.1	87.4	101.7	112.0	122.4	127.1
4.0	77.5°	7.9	22.2	38.9	55.6	68.3	80.3	90.6	98.5	101.7
3.2	80°	4.8	15.9	31.8	43.7	52.4	62.8	73.1	78.7	77.9
2.4	82.5°	3.2	12.7	23.0	31.8	38.1	46.1	53.2	57.2	57.2
1.6	85°	2.4	8.7	15.9	24.6	25.4	31.8	33.4	37.3	38.1
1.6	87.5°	1.6	5.6	8.7	14.3	13.5	16.7	17.5	19.9	21.5
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

180°
9599.6
9639.3
9908.7
10001.7
9857.1
9584.5
9143.5
8375.1
7436.7
6325.0
5316.7
4259.9
3327.8
2387.8
1556.6
1049.7
745.3
551.5
443.4
375.8
332.9
305.9
286.9
271.0
259.0
248.7
231.2
209.0
182.0
151.8
125.5
100.9
77.1
56.4
37.3
20.7
0.0

(END OF REPORT)