

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: P637754

Luminaire Tested: **IFLD-S-SA2C-830-U-55-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637754
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2C-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: 10608.9 lumens
Efficiency: N/A
Efficacy: 98.0 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): 108.2
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



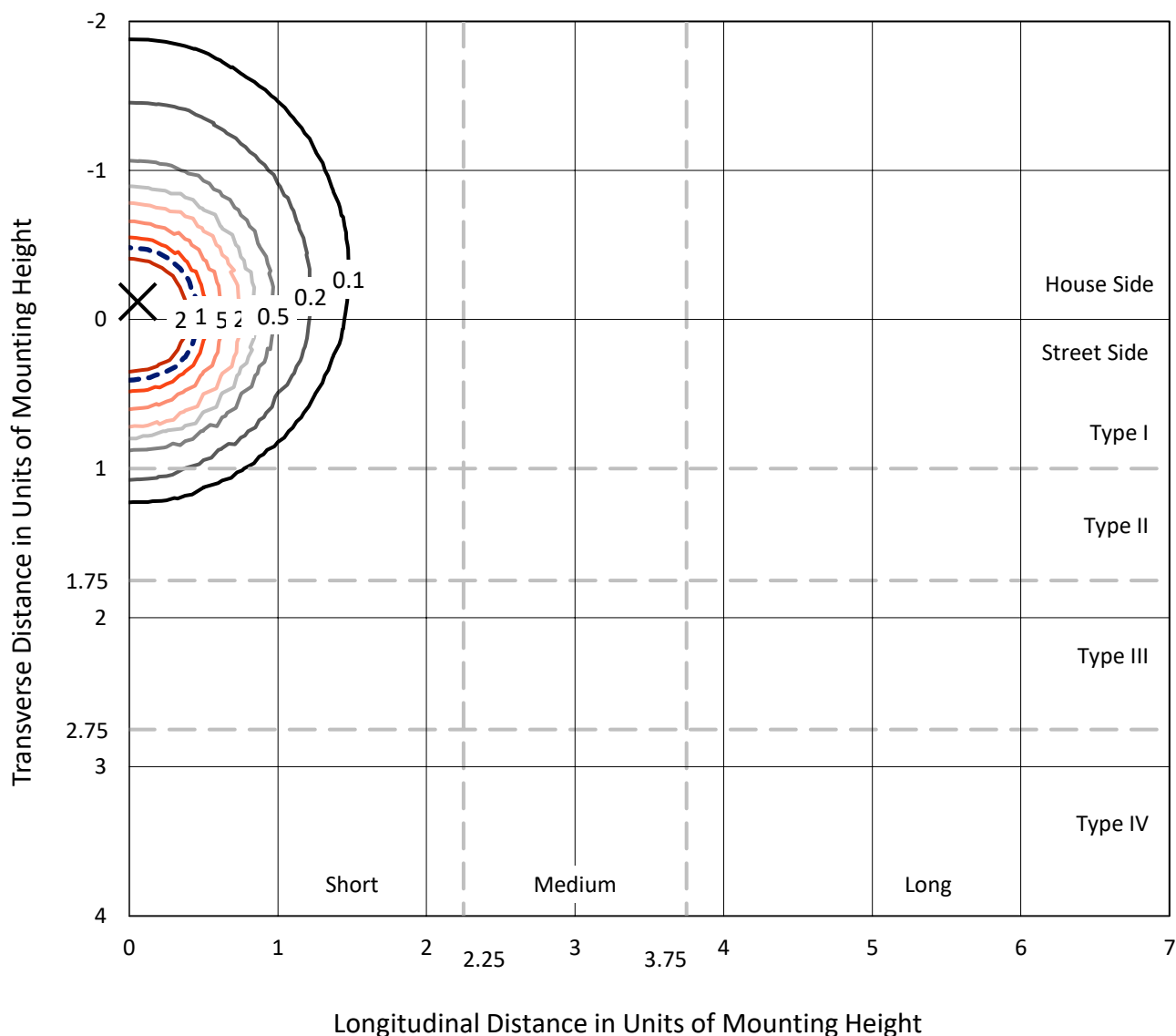
REPORT NUMBER: P637754

CATALOG NUMBER: IFLD-S-SA2C-830-U-55-VI

Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd



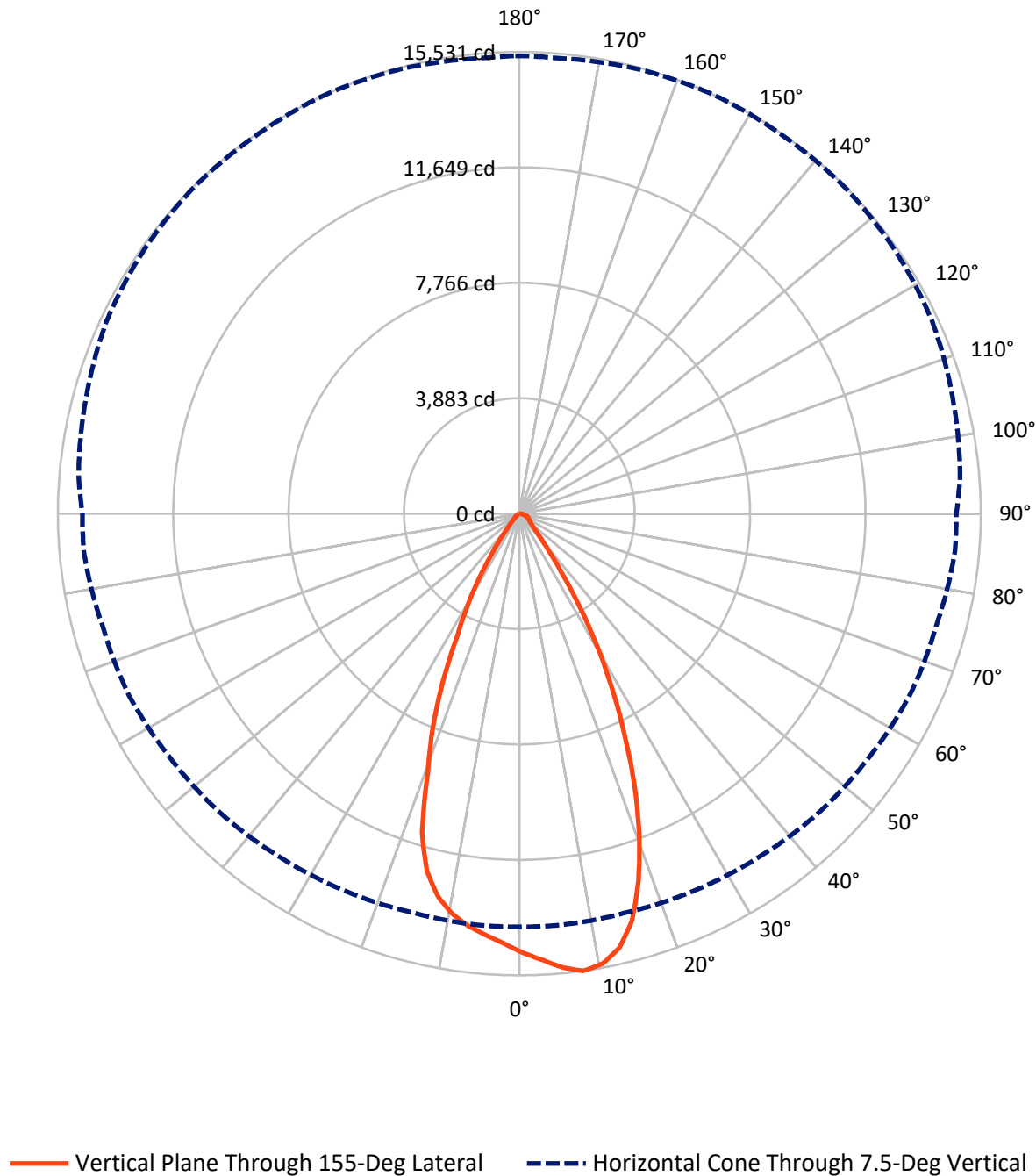
Based on 20 foot mounting height. Maximum calculated value = 37.6 fc

Type I - Short - N/A

REPORT NUMBER: P637754

CATALOG NUMBER: IFLD-S-SA2C-830-U-55-VI

Luminous Intensity Polar Plot



REPORT NUMBER: P637754

CATALOG NUMBER: IFLD-S-SA2C-830-U-55-VI

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5856.5	0.0	5856.5
	% Fixture	55.2	0.0	55.2
Street Side	Lumens	4752.4	0.0	4752.4
	% Fixture	44.8	0.0	44.8
Total	Lumens	10608.9	0.0	10608.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1409.3	13.3
10°-20°	3654.3	34.4
20°-30°	3348.3	31.6
30°-40°	1352.7	12.8
40°-50°	396.8	3.7
50°-60°	221.9	2.1
60°-70°	134.8	1.3
70°-80°	68.5	0.6
80°-90°	22.4	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°	10608.9	100.0
0°-180°	10608.9	100.0

Coefficient of Utilization



REPORT NUMBER: P637754

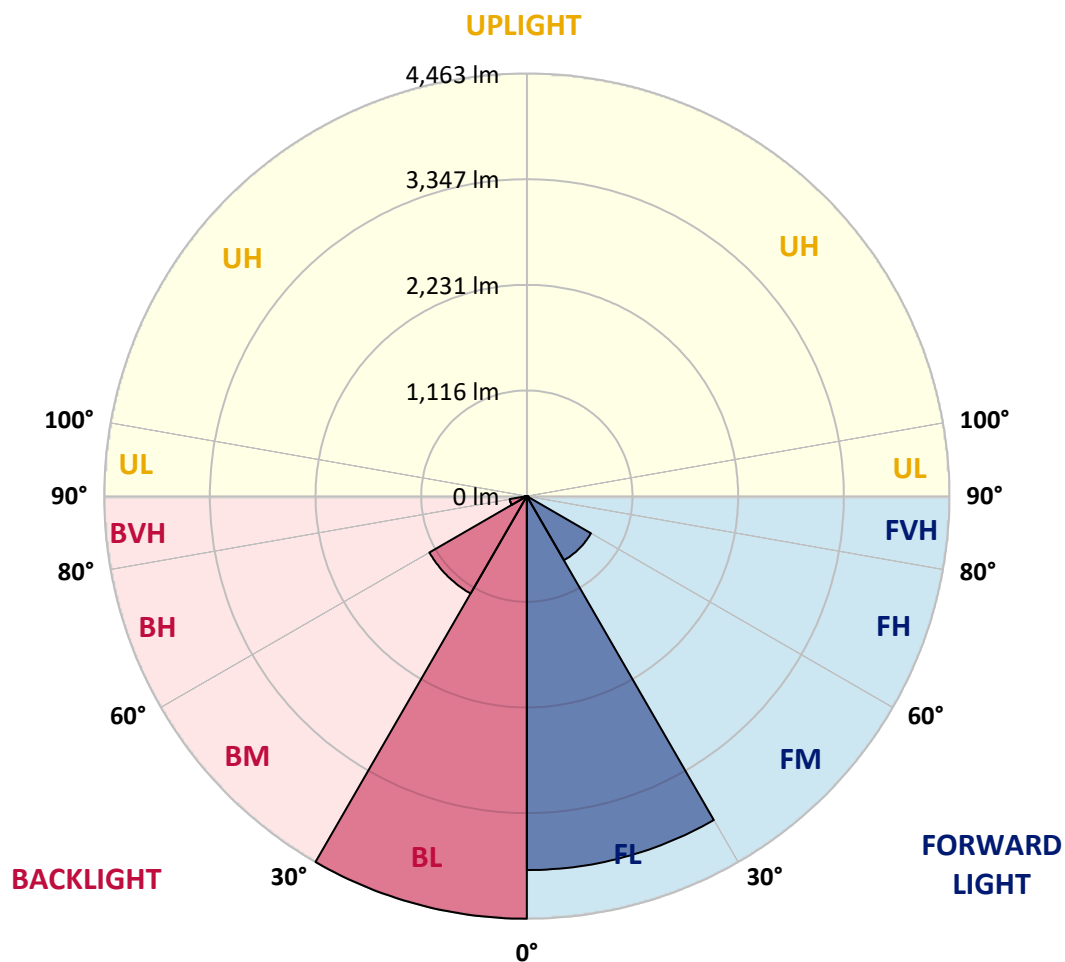
CATALOG NUMBER: IFLD-S-SA2C-830-U-55-VI

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3948.9	37.2			
FM	(30°-60°)	782.6	7.4			
FH	(60°-80°)	18.9	0.2			G0/660
FVH	(80°-90°)	1.9	0.0			G0/10
BL	(0°-30°)	4462.9	42.1	B4/5000		
BM	(30°-60°)	1188.8	11.2	B2/2500		
BH	(60°-80°)	184.3	1.7	B1/500		G1/500
BVH	(80°-90°)	20.5	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



REPORT NUMBER: P637754

CATALOG NUMBER: IFLD-S-SA2C-830-U-55-VI

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	14779.0	14779.0	14779.0	14779.0	14779.0	14779.0	14779.0	14779.0	14779.0	14779.0
2.5°	14458.5	14507.4	14409.6	14474.4	14524.6	14644.4	14654.2	14695.8	14710.5	14819.4
5°	14184.5	14222.4	14142.9	14229.7	14300.7	14407.1	14489.1	14604.1	14667.7	14796.1
7.5°	13899.4	13908.0	13892.1	13983.8	14090.3	14237.1	14338.6	14489.1	14528.2	14711.7
10°	13554.5	13492.1	13522.7	13657.2	13816.3	14041.3	14111.1	14261.5	14331.3	14518.4
12.5°	13004.0	13035.8	12997.8	13169.1	13301.2	13556.9	13630.3	13782.0	13915.3	14080.5
15°	12228.4	12210.0	12287.1	12420.4	12563.6	12766.6	12885.3	13050.4	13152.0	13323.3
17.5°	10485.1	10547.5	10865.6	11199.6	11493.2	11730.5	11872.4	12009.4	12082.8	12268.7
20°	9055.1	8976.8	9019.6	9208.0	10043.5	10406.8	10556.1	10589.1	10619.7	10766.5
22.5°	7456.2	7430.5	7573.6	7785.3	7983.4	8821.4	9024.5	8947.4	9011.0	9149.3
25°	5536.8	5666.4	5793.7	6199.8	6456.7	6867.8	7253.1	7287.4	7310.6	7397.5
27.5°	4506.7	4461.5	4459.0	4572.8	4952.0	5294.6	5622.4	5698.3	5684.8	5768.0
30°	3542.8	3528.1	3476.7	3503.6	3465.7	3770.3	3924.4	4236.4	4219.3	4221.7
32.5°	2555.5	2500.5	2479.7	2520.1	2480.9	2452.8	2587.3	2939.7	2933.5	2958.0
35°	1546.3	1538.9	1556.1	1591.5	1513.3	1510.8	1538.9	1870.5	1910.8	1950.0
37.5°	853.9	846.5	860.0	990.9	965.2	942.0	949.3	1124.2	1240.5	1269.8
40°	562.7	561.5	571.3	594.5	638.6	630.0	633.7	712.0	822.1	847.8
42.5°	376.8	378.0	384.1	411.0	417.2	461.2	453.9	472.2	575.0	597.0
45°	300.9	299.7	303.4	291.2	298.5	343.8	348.6	349.9	438.0	451.4
47.5°	237.3	237.3	241.0	225.1	221.4	249.6	275.2	278.9	349.9	368.2
50°	166.4	166.4	184.7	177.4	185.9	194.5	222.6	226.3	286.3	305.8
52.5°	122.3	124.8	127.2	128.4	156.6	155.4	179.8	197.0	216.5	250.8
55°	93.0	95.4	89.3	95.4	116.2	129.7	134.6	159.0	172.5	210.4
57.5°	61.2	67.3	62.4	73.4	78.3	100.3	107.7	130.9	139.5	172.5
60°	8.6	9.8	15.9	51.4	55.0	66.1	83.2	104.0	112.5	140.7
62.5°	1.2	1.2	3.7	8.6	36.7	44.0	62.4	72.2	83.2	105.2
65°	0.0	0.0	1.2	2.4	7.3	25.7	31.8	39.1	57.5	75.8
67.5°	0.0	0.0	1.2	2.4	3.7	8.6	13.5	25.7	33.0	52.6
70°	0.0	0.0	1.2	2.4	3.7	4.9	7.3	9.8	19.6	30.6
72.5°	0.0	0.0	1.2	2.4	3.7	4.9	6.1	7.3	8.6	19.6
75°	0.0	0.0	1.2	2.4	3.7	6.1	7.3	7.3	7.3	8.6
77.5°	0.0	0.0	1.2	2.4	4.9	7.3	8.6	7.3	6.1	6.1
80°	0.0	0.0	1.2	3.7	6.1	8.6	9.8	7.3	4.9	3.7
82.5°	0.0	0.0	1.2	3.7	6.1	8.6	9.8	8.6	4.9	3.7
85°	0.0	0.0	1.2	3.7	4.9	6.1	9.8	8.6	4.9	2.4
87.5°	0.0	0.0	0.0	1.2	1.2	2.4	4.9	3.7	2.4	1.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P637754

CATALOG NUMBER: IFLD-S-SA2C-830-U-55-VI

CANDELA DISTRIBUTION (continued):

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°
14779.0	0°	14779.0	14779.0	14779.0	14779.0	14779.0	14779.0	14779.0	14779.0	14779.0
14816.9	2.5°	14927.0	14982.1	15078.7	15105.6	15188.8	15093.4	15040.8	15045.7	14931.9
14780.2	5°	14927.0	15053.0	15221.9	15302.6	15363.8	15358.9	15345.4	15311.2	15228.0
14706.8	7.5°	14887.9	15093.4	15325.8	15433.5	15506.9	15500.8	15531.4	15476.3	15374.8
14575.9	10°	14761.9	14940.5	15226.7	15314.8	15433.5	15435.9	15398.0	15409.0	15228.0
14097.6	12.5°	14365.5	14505.0	14755.8	14856.1	15000.4	15023.7	14982.1	14966.2	14794.9
13313.5	15°	13598.5	13679.2	13931.2	14031.6	14174.7	14155.1	14196.7	14179.6	14029.1
12254.1	17.5°	12476.7	12502.4	12766.6	12851.0	12985.6	13038.2	12975.8	13055.3	12925.7
10792.2	20°	10868.0	11006.3	11303.5	11433.2	11511.5	11605.7	11523.7	11613.0	11461.3
9018.4	22.5°	9236.1	9318.1	9587.2	9774.4	9920.0	9938.3	9907.7	9970.1	9765.8
7455.0	25°	7453.7	7589.5	7802.4	8047.0	8190.2	8278.3	8198.7	8239.1	8206.1
5781.4	27.5°	5879.3	6000.4	6160.7	6342.9	6558.3	6673.2	6609.6	6678.1	6516.7
4311.0	30°	4314.7	4375.8	4556.9	4750.2	4986.3	5125.7	5131.9	5201.6	5106.2
3020.4	32.5°	3042.4	3096.2	3207.6	3336.0	3561.1	3716.5	3692.0	3701.8	3643.1
1968.3	35°	1978.1	2050.3	2129.8	2191.0	2326.8	2498.0	2484.6	2472.3	2432.0
1294.3	37.5°	1322.4	1350.6	1394.6	1449.6	1537.7	1645.4	1680.9	1636.8	1619.7
873.5	40°	894.3	943.2	972.5	1014.1	1055.7	1146.3	1170.7	1162.2	1145.0
611.7	42.5°	634.9	672.8	709.5	749.9	771.9	828.2	875.9	862.4	855.1
464.9	45°	482.0	516.2	559.1	589.6	611.7	644.7	690.0	694.8	683.8
373.1	47.5°	386.6	417.2	451.4	489.3	515.0	535.8	575.0	589.6	582.3
314.4	50°	327.9	351.1	384.1	422.0	450.2	468.5	502.8	518.7	513.8
263.0	52.5°	278.9	307.1	337.6	369.4	403.7	422.0	453.9	477.1	473.4
217.8	55°	231.2	267.9	299.7	331.5	370.7	389.0	417.2	447.7	441.6
184.7	57.5°	201.8	232.4	265.5	296.0	337.6	362.1	387.8	419.6	418.4
151.7	60°	168.8	199.4	236.1	261.8	305.8	340.1	363.3	396.4	398.8
115.0	62.5°	134.6	172.5	200.6	236.1	276.5	316.8	338.9	371.9	384.1
88.1	65°	100.3	141.9	173.7	209.2	247.1	292.4	311.9	345.0	357.2
63.6	67.5°	74.6	106.4	146.8	177.4	220.2	259.3	282.6	313.2	321.7
37.9	70°	56.3	82.0	122.3	149.2	193.3	225.1	248.3	271.6	282.6
25.7	72.5°	33.0	61.2	96.6	128.4	166.4	193.3	210.4	228.8	236.1
12.2	75°	23.2	46.5	75.8	106.4	134.6	156.6	172.5	188.4	195.7
6.1	77.5°	12.2	34.3	59.9	85.6	105.2	123.6	139.5	151.7	156.6
4.9	80°	7.3	24.5	48.9	67.3	80.7	96.6	112.5	121.1	119.9
3.7	82.5°	4.9	19.6	35.5	48.9	58.7	71.0	82.0	88.1	88.1
2.4	85°	3.7	13.5	24.5	37.9	39.1	48.9	51.4	57.5	58.7
2.4	87.5°	2.4	8.6	13.5	22.0	20.8	25.7	26.9	30.6	33.0
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

180°
14779.0
14840.2
15254.9
15398.0
15175.4
14755.8
14076.8
12893.9
11449.1
9737.7
8185.3
6558.3
5123.3
3676.1
2396.5
1616.0
1147.5
849.0
682.6
578.6
512.6
471.0
441.6
417.2
398.8
382.9
356.0
321.7
280.1
233.7
193.3
155.4
118.7
86.9
57.5
31.8
0.0

(END OF REPORT)