

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: P637729

Luminaire Tested: **IFLD-S-SA3B-827-U-55-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637729
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3B-827-U-55-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 5 distribution lens and Visor
Light Source: (48) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11749.6 lumens
Efficiency: N/A
Efficacy: 96.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B4 - U0 - G1

Input Watts (W): 122.4
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



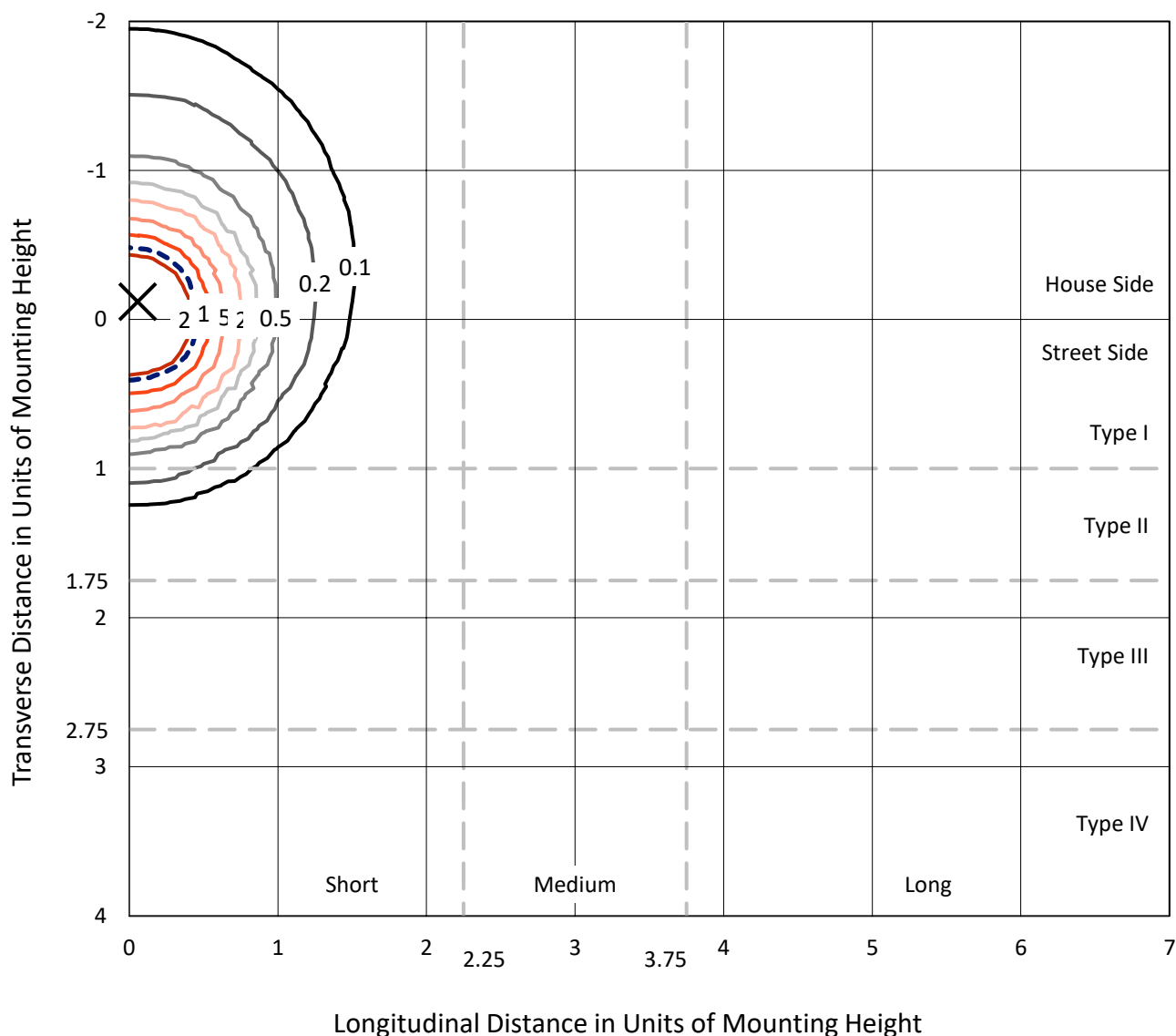
REPORT NUMBER: P637729

CATALOG NUMBER: IFLD-S-SA3B-827-U-55-VI

Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd



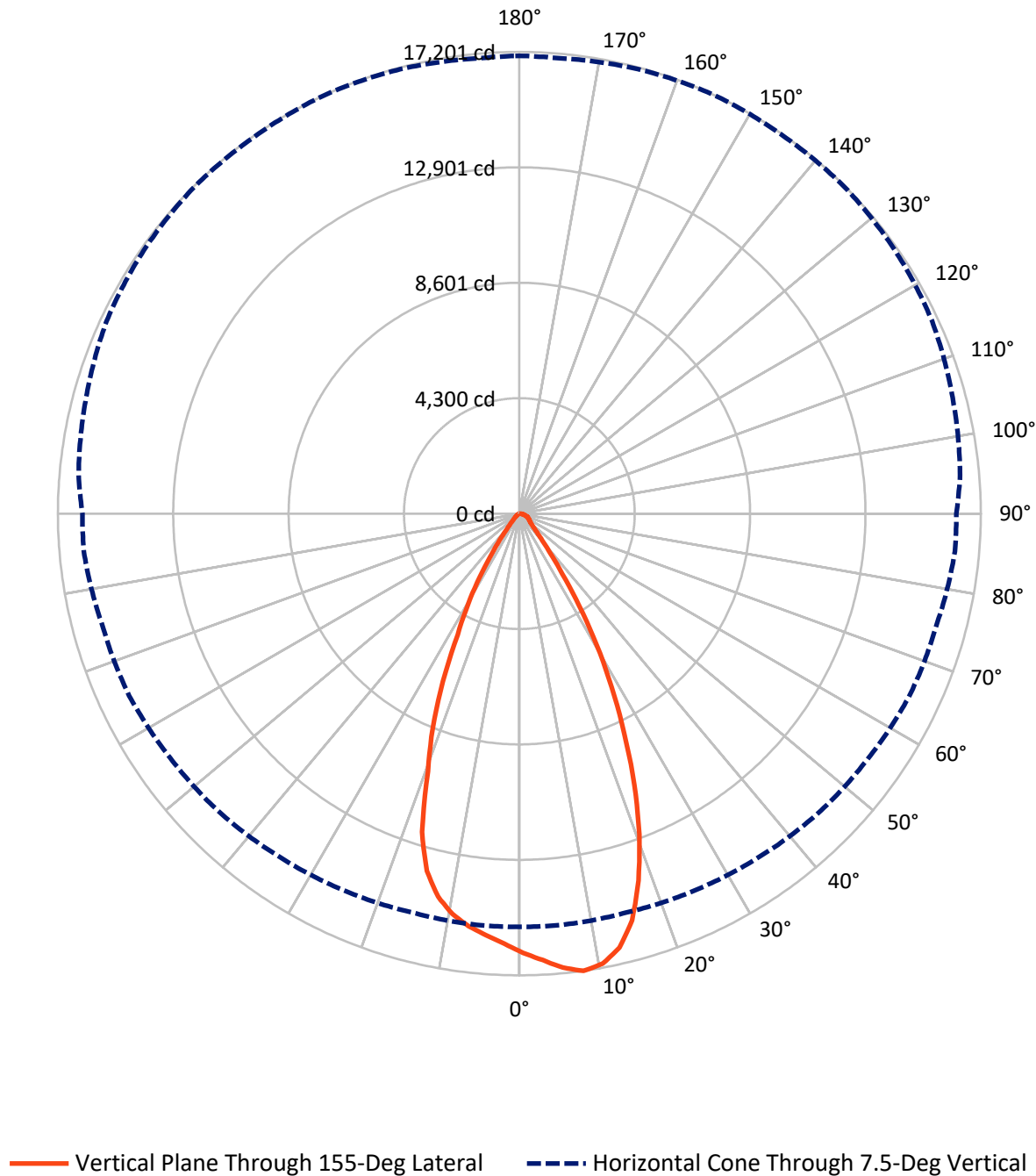
Based on 20 foot mounting height. Maximum calculated value = 41.6 fc

Type I - Short - N/A

REPORT NUMBER: P637729

CATALOG NUMBER: IFLD-S-SA3B-827-U-55-VI

Luminous Intensity Polar Plot



REPORT NUMBER: P637729

CATALOG NUMBER: IFLD-S-SA3B-827-U-55-VI

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6486.2	0.0	6486.2
	% Fixture	55.2	0.0	55.2
Street Side	Lumens	5263.4	0.0	5263.4
	% Fixture	44.8	0.0	44.8
Total	Lumens	11749.6	0.0	11749.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1560.8	13.3
10°-20°	4047.2	34.4
20°-30°	3708.3	31.6
30°-40°	1498.2	12.8
40°-50°	439.5	3.7
50°-60°	245.7	2.1
60°-70°	149.3	1.3
70°-80°	75.8	0.6
80°-90°	24.8	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°	11749.6	100.0
0°-180°	11749.6	100.0

Coefficient of Utilization



REPORT NUMBER: P637729

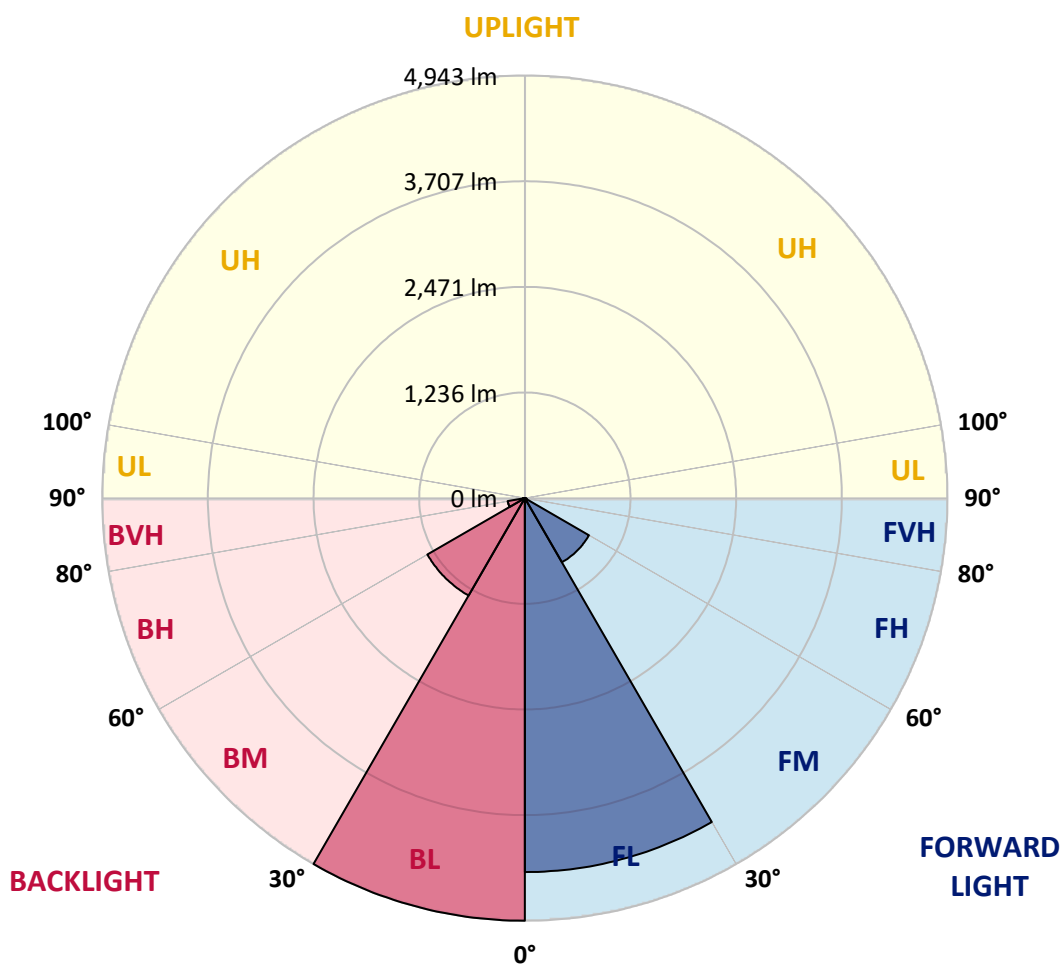
CATALOG NUMBER: IFLD-S-SA3B-827-U-55-VI

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4373.5	37.2			
FM	(30°-60°)	866.7	7.4			
FH	(60°-80°)	21.0	0.2			G0/660
FVH	(80°-90°)	2.2	0.0			G0/10
BL	(0°-30°)	4942.8	42.1	B4/5000		
BM	(30°-60°)	1316.6	11.2	B2/2500		
BH	(60°-80°)	204.1	1.7	B1/500		G1/500
BVH	(80°-90°)	22.7	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: P637729

CATALOG NUMBER: IFLD-S-SA3B-827-U-55-VI

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	16368.1	16368.1	16368.1	16368.1	16368.1	16368.1	16368.1	16368.1	16368.1	16368.1
2.5°	16013.2	16067.4	15959.0	16030.8	16086.3	16219.1	16229.9	16276.0	16292.3	16412.8
5°	15709.7	15751.7	15663.6	15759.8	15838.4	15956.3	16047.0	16174.4	16244.8	16387.1
7.5°	15394.0	15403.5	15385.9	15487.5	15605.3	15767.9	15880.4	16047.0	16090.4	16293.6
10°	15011.9	14942.8	14976.7	15125.7	15301.9	15551.2	15628.4	15795.0	15872.3	16079.5
12.5°	14402.2	14437.5	14395.5	14585.1	14731.5	15014.6	15095.9	15263.9	15411.6	15594.5
15°	13543.2	13522.9	13608.3	13756.0	13914.5	14139.4	14270.8	14453.7	14566.2	14755.8
17.5°	11612.6	11681.7	12033.9	12403.8	12729.0	12991.8	13149.0	13300.7	13382.0	13588.0
20°	10028.7	9942.0	9989.4	10198.1	11123.4	11525.8	11691.1	11727.7	11761.6	11924.2
22.5°	8257.9	8229.5	8388.0	8622.4	8841.9	9769.9	9994.8	9909.5	9979.9	10133.0
25°	6132.1	6275.7	6416.6	6866.5	7151.0	7606.2	8033.0	8070.9	8096.7	8192.9
27.5°	4991.3	4941.2	4938.5	5064.5	5484.5	5863.9	6227.0	6311.0	6296.1	6388.2
30°	3923.7	3907.4	3850.5	3880.3	3838.3	4175.7	4346.4	4691.9	4672.9	4675.6
32.5°	2830.3	2769.3	2746.3	2791.0	2747.7	2716.5	2865.5	3255.7	3249.0	3276.1
35°	1712.6	1704.4	1723.4	1762.7	1676.0	1673.3	1704.4	2071.6	2116.3	2159.7
37.5°	945.7	937.6	952.5	1097.4	1069.0	1043.2	1051.4	1245.1	1373.8	1406.4
40°	623.2	621.9	632.7	658.5	707.2	697.8	701.8	788.5	910.5	938.9
42.5°	417.3	418.7	425.4	455.2	462.0	510.8	502.7	523.0	636.8	661.2
45°	333.3	331.9	336.0	322.5	330.6	380.7	386.1	387.5	485.0	499.9
47.5°	262.8	262.8	266.9	249.3	245.2	276.4	304.8	308.9	387.5	407.8
50°	184.3	184.3	204.6	196.5	205.9	215.4	246.6	250.7	317.0	338.7
52.5°	135.5	138.2	140.9	142.3	173.4	172.1	199.2	218.1	239.8	277.7
55°	103.0	105.7	98.9	105.7	128.7	143.6	149.0	176.1	191.0	233.0
57.5°	67.7	74.5	69.1	81.3	86.7	111.1	119.2	145.0	154.5	191.0
60°	9.5	10.8	17.6	56.9	61.0	73.2	92.1	115.2	124.6	155.8
62.5°	1.4	1.4	4.1	9.5	40.6	48.8	69.1	79.9	92.1	116.5
65°	0.0	0.0	1.4	2.7	8.1	28.5	35.2	43.4	63.7	84.0
67.5°	0.0	0.0	1.4	2.7	4.1	9.5	14.9	28.5	36.6	58.3
70°	0.0	0.0	1.4	2.7	4.1	5.4	8.1	10.8	21.7	33.9
72.5°	0.0	0.0	1.4	2.7	4.1	5.4	6.8	8.1	9.5	21.7
75°	0.0	0.0	1.4	2.7	4.1	6.8	8.1	8.1	8.1	9.5
77.5°	0.0	0.0	1.4	2.7	5.4	8.1	9.5	8.1	6.8	6.8
80°	0.0	0.0	1.4	4.1	6.8	9.5	10.8	8.1	5.4	4.1
82.5°	0.0	0.0	1.4	4.1	6.8	9.5	10.8	9.5	5.4	4.1
85°	0.0	0.0	1.4	4.1	5.4	6.8	10.8	9.5	5.4	2.7
87.5°	0.0	0.0	0.0	1.4	1.4	2.7	5.4	4.1	2.7	1.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P637729

CATALOG NUMBER: IFLD-S-SA3B-827-U-55-VI

CANDELA DISTRIBUTION (continued):

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°
16368.1	0°	16368.1	16368.1	16368.1	16368.1	16368.1	16368.1	16368.1	16368.1	16368.1
16410.1	2.5°	16532.1	16593.0	16700.1	16729.9	16822.0	16716.3	16658.1	16663.5	16537.5
16369.5	5°	16532.1	16671.6	16858.6	16948.0	17015.8	17010.3	16995.4	16957.5	16865.4
16288.2	7.5°	16488.7	16716.3	16973.8	17093.0	17174.3	17167.5	17201.4	17140.4	17028.0
16143.2	10°	16349.2	16547.0	16864.0	16961.6	17093.0	17095.7	17053.7	17065.9	16865.4
15613.5	12.5°	15910.2	16064.6	16342.4	16453.5	16613.4	16639.1	16593.0	16575.4	16385.7
14745.0	15°	15060.7	15150.1	15429.2	15540.3	15698.8	15677.2	15723.2	15704.3	15537.6
13571.7	17.5°	13818.3	13846.7	14139.4	14232.9	14381.9	14440.2	14371.1	14459.1	14315.5
11952.6	20°	12036.6	12189.7	12519.0	12662.6	12749.3	12853.6	12762.8	12861.7	12693.7
9988.1	22.5°	10229.2	10320.0	10618.1	10825.4	10986.6	11006.9	10973.1	11042.2	10815.9
8256.6	25°	8255.2	8405.6	8641.3	8912.3	9070.8	9168.4	9080.3	9125.0	9088.4
6403.1	27.5°	6511.5	6645.6	6823.1	7025.0	7263.4	7390.8	7320.3	7396.2	7217.4
4774.5	30°	4778.6	4846.4	5046.9	5260.9	5522.4	5676.9	5683.7	5760.9	5655.2
3345.2	32.5°	3369.6	3429.2	3552.5	3694.7	3944.0	4116.1	4089.0	4099.8	4034.8
2180.0	35°	2190.8	2270.8	2358.8	2426.6	2577.0	2766.6	2751.7	2738.2	2693.5
1433.4	37.5°	1464.6	1495.8	1544.5	1605.5	1703.1	1822.3	1861.6	1812.8	1793.8
967.4	40°	990.4	1044.6	1077.1	1123.2	1169.2	1269.5	1296.6	1287.1	1268.2
677.4	42.5°	703.2	745.2	785.8	830.5	854.9	917.2	970.1	955.2	947.1
514.8	45°	533.8	571.8	619.2	653.0	677.4	714.0	764.1	769.6	757.4
413.2	47.5°	428.1	462.0	499.9	541.9	570.4	593.4	636.8	653.0	644.9
348.2	50°	363.1	388.8	425.4	467.4	498.6	518.9	556.8	574.5	569.0
291.3	52.5°	308.9	340.1	373.9	409.2	447.1	467.4	502.7	528.4	524.3
241.2	55°	256.1	296.7	331.9	367.2	410.5	430.8	462.0	495.9	489.1
204.6	57.5°	223.6	257.4	294.0	327.9	373.9	401.0	429.5	464.7	463.4
168.0	60°	187.0	220.8	261.5	289.9	338.7	376.7	402.4	439.0	441.7
127.4	62.5°	149.0	191.0	222.2	261.5	306.2	350.9	375.3	411.9	425.4
97.6	65°	111.1	157.2	192.4	231.7	273.7	323.8	345.5	382.1	395.6
70.5	67.5°	82.6	117.9	162.6	196.5	243.9	287.2	313.0	346.8	356.3
42.0	70°	62.3	90.8	135.5	165.3	214.1	249.3	275.0	300.8	313.0
28.5	72.5°	36.6	67.7	107.0	142.3	184.3	214.1	233.0	253.4	261.5
13.5	75°	25.7	51.5	84.0	117.9	149.0	173.4	191.0	208.6	216.8
6.8	77.5°	13.5	37.9	66.4	94.8	116.5	136.8	154.5	168.0	173.4
5.4	80°	8.1	27.1	54.2	74.5	89.4	107.0	124.6	134.1	132.8
4.1	82.5°	5.4	21.7	39.3	54.2	65.0	78.6	90.8	97.6	97.6
2.7	85°	4.1	14.9	27.1	42.0	43.4	54.2	56.9	63.7	65.0
2.7	87.5°	2.7	9.5	14.9	24.4	23.0	28.5	29.8	33.9	36.6
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

180°
16368.1
16435.9
16895.2
17053.7
16807.1
16342.4
15590.4
14280.3
12680.2
10784.7
9065.4
7263.4
5674.2
4071.4
2654.2
1789.8
1270.9
940.3
756.0
640.9
567.7
521.6
489.1
462.0
441.7
424.1
394.3
356.3
310.3
258.8
214.1
172.1
131.4
96.2
63.7
35.2
0.0

(END OF REPORT)