

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: P637608

Luminaire Tested: **IFLD-S-SA2B-735-U-55-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637608
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2B-735-U-55-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 5 distribution lens and Visor
Light Source: (32) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10578.2 lumens
Efficiency: N/A
Efficacy: 128.4 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): 82.4
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



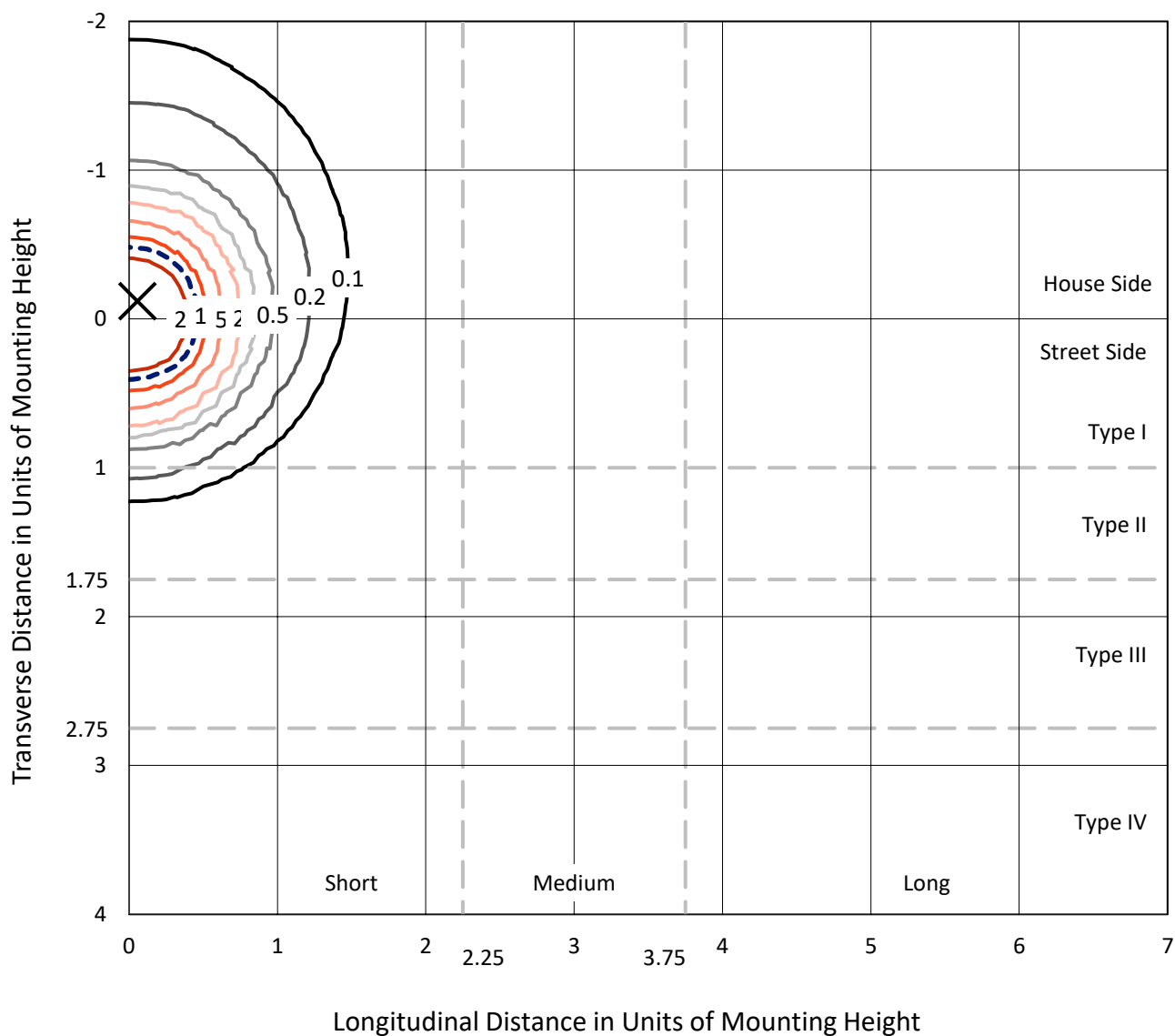
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

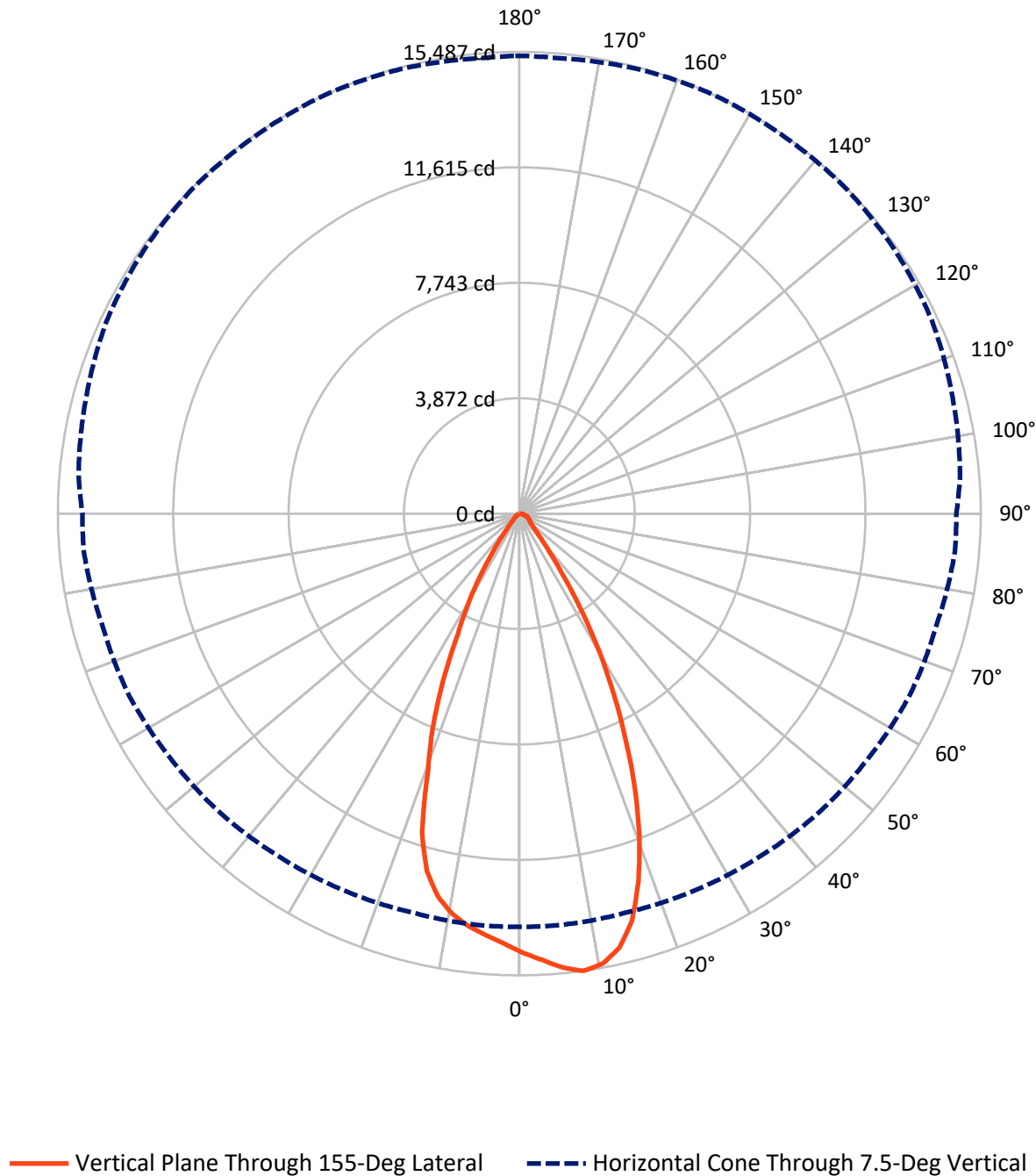


Based on 20 foot mounting height. Maximum calculated value = 37.4 fc

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	5839.6	0.0	5839.6
	% Fixture	55.2	0.0	55.2
Street Side	Lumens	4738.7	0.0	4738.7
	% Fixture	44.8	0.0	44.8
Total	Lumens	10578.2	0.0	10578.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1405.2	13.3
10°-20°	3643.7	34.4
20°-30°	3338.6	31.6
30°-40°	1348.8	12.8
40°-50°	395.7	3.7
50°-60°	221.2	2.1
60°-70°	134.4	1.3
70°-80°	68.3	0.6
80°-90°	22.3	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°	10578.2	100.0
0°-180°	10578.2	100.0

Coefficient of Utilization



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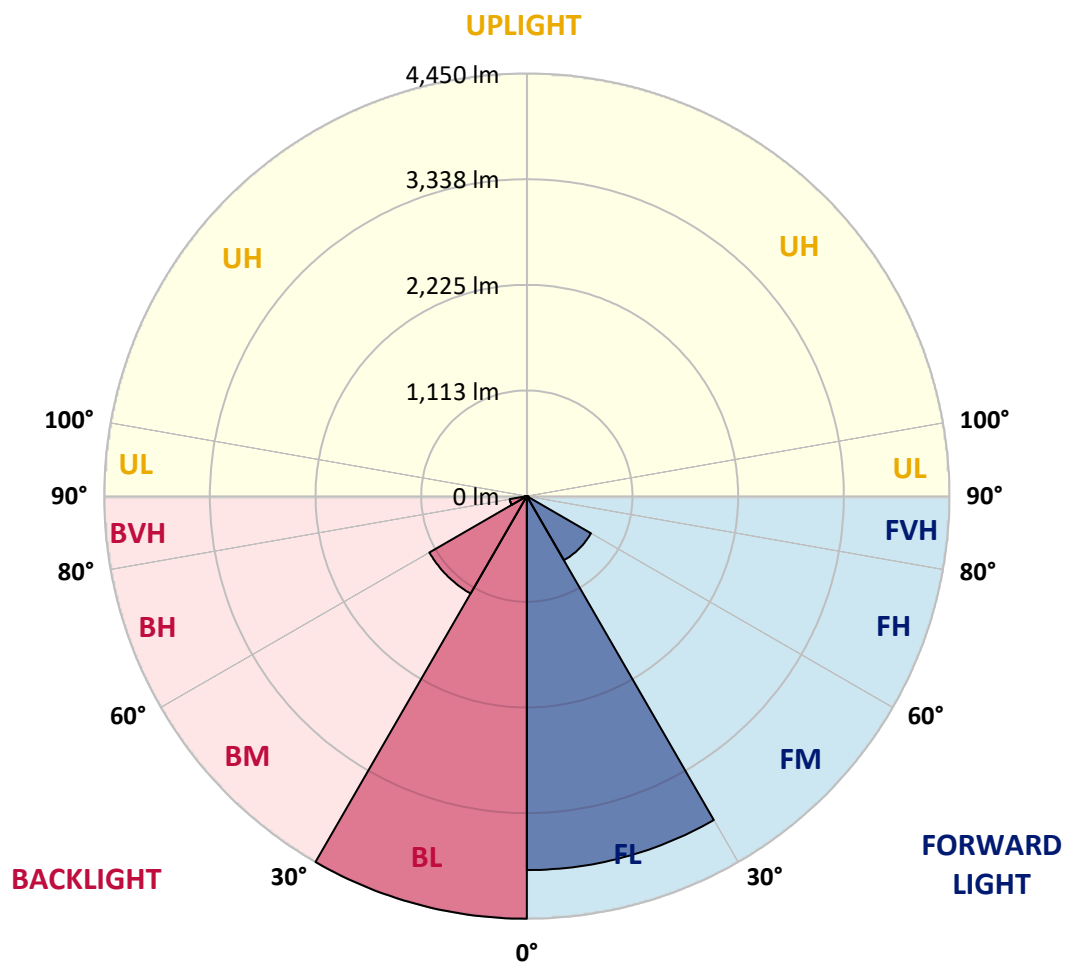
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3937.5	37.2			
FM	(30°-60°)	780.3	7.4			
FH	(60°-80°)	18.9	0.2			G0/660
FVH	(80°-90°)	1.9	0.0			G0/10
BL	(0°-30°)	4450.1	42.1	B4/5000		
BM	(30°-60°)	1185.4	11.2	B2/2500		
BH	(60°-80°)	183.7	1.7	B1/500		G1/500
BVH	(80°-90°)	20.4	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°	14736.3	14736.3	14736.3	14736.3	14736.3	14736.3	14736.3	14736.3	14736.3	14736.3
2.5°	14416.7	14465.5	14367.9	14432.6	14482.6	14602.1	14611.9	14653.4	14668.0	14776.6
5°	14143.5	14181.3	14102.0	14188.6	14259.4	14365.5	14447.2	14561.9	14625.3	14753.4
7.5°	13859.3	13867.8	13852.0	13943.5	14049.6	14196.0	14297.2	14447.2	14486.3	14669.2
10°	13515.3	13453.1	13483.6	13617.8	13776.3	14000.8	14070.3	14220.3	14289.9	14476.5
12.5°	12966.4	12998.1	12960.3	13131.1	13262.8	13517.7	13590.9	13742.2	13875.1	14039.8
15°	12193.1	12174.8	12251.6	12384.6	12527.3	12729.8	12848.1	13012.8	13114.0	13284.8
17.5°	10454.8	10517.1	10834.2	11167.2	11460.0	11696.6	11838.1	11974.7	12047.9	12233.3
20°	9028.9	8950.8	8993.5	9181.4	10014.5	10376.8	10525.6	10558.5	10589.0	10735.4
22.5°	7434.6	7409.0	7551.7	7762.8	7960.4	8795.9	8998.4	8921.6	8985.0	9122.8
25°	5520.8	5650.1	5776.9	6181.9	6438.1	6847.9	7232.2	7266.3	7289.5	7376.1
27.5°	4493.7	4448.6	4446.1	4559.6	4937.7	5279.3	5606.2	5681.8	5668.4	5751.3
30°	3532.5	3517.9	3466.7	3493.5	3455.7	3759.4	3913.1	4224.1	4207.1	4209.5
32.5°	2548.1	2493.3	2472.5	2512.8	2473.7	2445.7	2579.9	2931.2	2925.1	2949.5
35°	1541.8	1534.5	1551.6	1587.0	1508.9	1506.4	1534.5	1865.1	1905.3	1944.4
37.5°	851.4	844.1	857.5	988.0	962.4	939.2	946.6	1121.0	1236.9	1266.1
40°	561.1	559.9	569.6	592.8	636.7	628.2	631.9	709.9	819.7	845.3
42.5°	375.7	376.9	383.0	409.9	415.9	459.9	452.5	470.8	573.3	595.3
45°	300.1	298.8	302.5	290.3	297.6	342.8	347.6	348.9	436.7	450.1
47.5°	236.6	236.6	240.3	224.4	220.8	248.8	274.5	278.1	348.9	367.2
50°	165.9	165.9	184.2	176.9	185.4	193.9	222.0	225.7	285.4	304.9
52.5°	122.0	124.4	126.9	128.1	156.1	154.9	179.3	196.4	215.9	250.1
55°	92.7	95.1	89.0	95.1	115.9	129.3	134.2	158.6	172.0	209.8
57.5°	61.0	67.1	62.2	73.2	78.1	100.0	107.3	130.5	139.1	172.0
60°	8.5	9.8	15.9	51.2	54.9	65.9	82.9	103.7	112.2	140.3
62.5°	1.2	1.2	3.7	8.5	36.6	43.9	62.2	72.0	82.9	104.9
65°	0.0	0.0	1.2	2.4	7.3	25.6	31.7	39.0	57.3	75.6
67.5°	0.0	0.0	1.2	2.4	3.7	8.5	13.4	25.6	32.9	52.5
70°	0.0	0.0	1.2	2.4	3.7	4.9	7.3	9.8	19.5	30.5
72.5°	0.0	0.0	1.2	2.4	3.7	4.9	6.1	7.3	8.5	19.5
75°	0.0	0.0	1.2	2.4	3.7	6.1	7.3	7.3	7.3	8.5
77.5°	0.0	0.0	1.2	2.4	4.9	7.3	8.5	7.3	6.1	6.1
80°	0.0	0.0	1.2	3.7	6.1	8.5	9.8	7.3	4.9	3.7
82.5°	0.0	0.0	1.2	3.7	6.1	8.5	9.8	8.5	4.9	3.7
85°	0.0	0.0	1.2	3.7	4.9	6.1	9.8	8.5	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

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CANDELA DISTRIBUTION (continued):

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°
14736.3	0°	14736.3	14736.3	14736.3	14736.3	14736.3	14736.3	14736.3	14736.3	14736.3
14774.1	2.5°	14883.9	14938.8	15035.2	15062.0	15145.0	15049.8	14997.4	15002.2	14888.8
14737.5	5°	14883.9	15009.6	15177.9	15258.4	15319.4	15314.5	15301.1	15266.9	15184.0
14664.4	7.5°	14844.9	15049.8	15281.6	15388.9	15462.1	15456.0	15486.5	15431.6	15330.4
14533.8	10°	14719.2	14897.3	15182.8	15270.6	15388.9	15391.4	15353.5	15364.5	15184.0
14056.9	12.5°	14324.0	14463.1	14713.1	14813.2	14957.1	14980.3	14938.8	14923.0	14752.2
13275.0	15°	13559.2	13639.7	13891.0	13991.0	14133.7	14114.2	14155.7	14138.6	13988.6
12218.7	17.5°	12440.7	12466.3	12729.8	12813.9	12948.1	13000.6	12938.3	13017.6	12888.3
10761.0	20°	10836.6	10974.5	11270.9	11400.2	11478.3	11572.2	11490.5	11579.5	11428.2
8992.3	22.5°	9209.4	9291.2	9559.5	9746.1	9891.3	9909.6	9879.1	9941.3	9737.6
7433.4	25°	7432.2	7567.6	7779.8	8023.8	8166.5	8254.3	8175.1	8215.3	8182.4
5764.7	27.5°	5862.3	5983.1	6142.9	6324.6	6539.3	6654.0	6590.5	6658.9	6497.8
4298.6	30°	4302.2	4363.2	4543.7	4736.5	4971.9	5110.9	5117.0	5186.6	5091.4
3011.7	32.5°	3033.6	3087.3	3198.3	3326.4	3550.8	3705.7	3681.3	3691.1	3632.5
1962.6	35°	1972.4	2044.4	2123.7	2184.6	2320.0	2490.8	2477.4	2465.2	2424.9
1290.5	37.5°	1318.6	1346.7	1390.6	1445.5	1533.3	1640.6	1676.0	1632.1	1615.0
870.9	40°	891.7	940.5	969.7	1011.2	1052.7	1142.9	1167.3	1158.8	1141.7
609.9	42.5°	633.1	670.9	707.5	747.7	769.7	825.8	873.4	860.0	852.6
463.5	45°	480.6	514.8	557.4	587.9	609.9	642.8	688.0	692.8	681.9
372.0	47.5°	385.5	415.9	450.1	487.9	513.5	534.3	573.3	587.9	580.6
313.5	50°	326.9	350.1	383.0	420.8	448.9	467.2	501.3	517.2	512.3
262.3	52.5°	278.1	306.2	336.7	368.4	402.5	420.8	452.5	475.7	472.1
217.1	55°	230.5	267.1	298.8	330.6	369.6	387.9	415.9	446.4	440.3
184.2	57.5°	201.3	231.8	264.7	295.2	336.7	361.1	386.7	418.4	417.2
151.3	60°	168.3	198.8	235.4	261.0	304.9	339.1	362.3	395.2	397.7
114.7	62.5°	134.2	172.0	200.0	235.4	275.7	315.9	337.9	370.8	383.0
87.8	65°	100.0	141.5	173.2	208.6	246.4	291.5	311.0	344.0	356.2
63.4	67.5°	74.4	106.1	146.4	176.9	219.6	258.6	281.8	312.3	320.8
37.8	70°	56.1	81.7	122.0	148.8	192.7	224.4	247.6	270.8	281.8
25.6	72.5°	32.9	61.0	96.4	128.1	165.9	192.7	209.8	228.1	235.4
12.2	75°	23.2	46.4	75.6	106.1	134.2	156.1	172.0	187.8	195.2
6.1	77.5°	12.2	34.2	59.8	85.4	104.9	123.2	139.1	151.3	156.1
4.9	80°	7.3	24.4	48.8	67.1	80.5	96.4	112.2	120.8	119.5
3.7	82.5°	4.9	19.5	35.4	48.8	58.6	70.7	81.7	87.8	87.8
2.4	85°	3.7	13.4	24.4	37.8	39.0	48.8	51.2	57.3	58.6
2.4	87.5°	2.4	8.5	13.4	22.0	20.7	25.6	26.8	30.5	32.9
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

180°
14736.3
14797.3
15210.8
15353.5
15131.5
14713.1
14036.2
12856.6
11416.0
9709.6
8161.6
6539.3
5108.5
3665.5
2389.6
1611.3
1144.2
846.5
680.6
577.0
511.1
469.6
440.3
415.9
397.7
381.8
355.0
320.8
279.3
233.0
192.7
154.9
118.3
86.6
57.3
31.7
0.0

(END OF REPORT)