

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: P637610

Luminaire Tested: **IFLD-S-SA2D-735-U-55-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637610
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2D-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: 14489.6 lumens
Efficiency: N/A
Efficacy: 116.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G1

Input Watts (W): 123.9
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



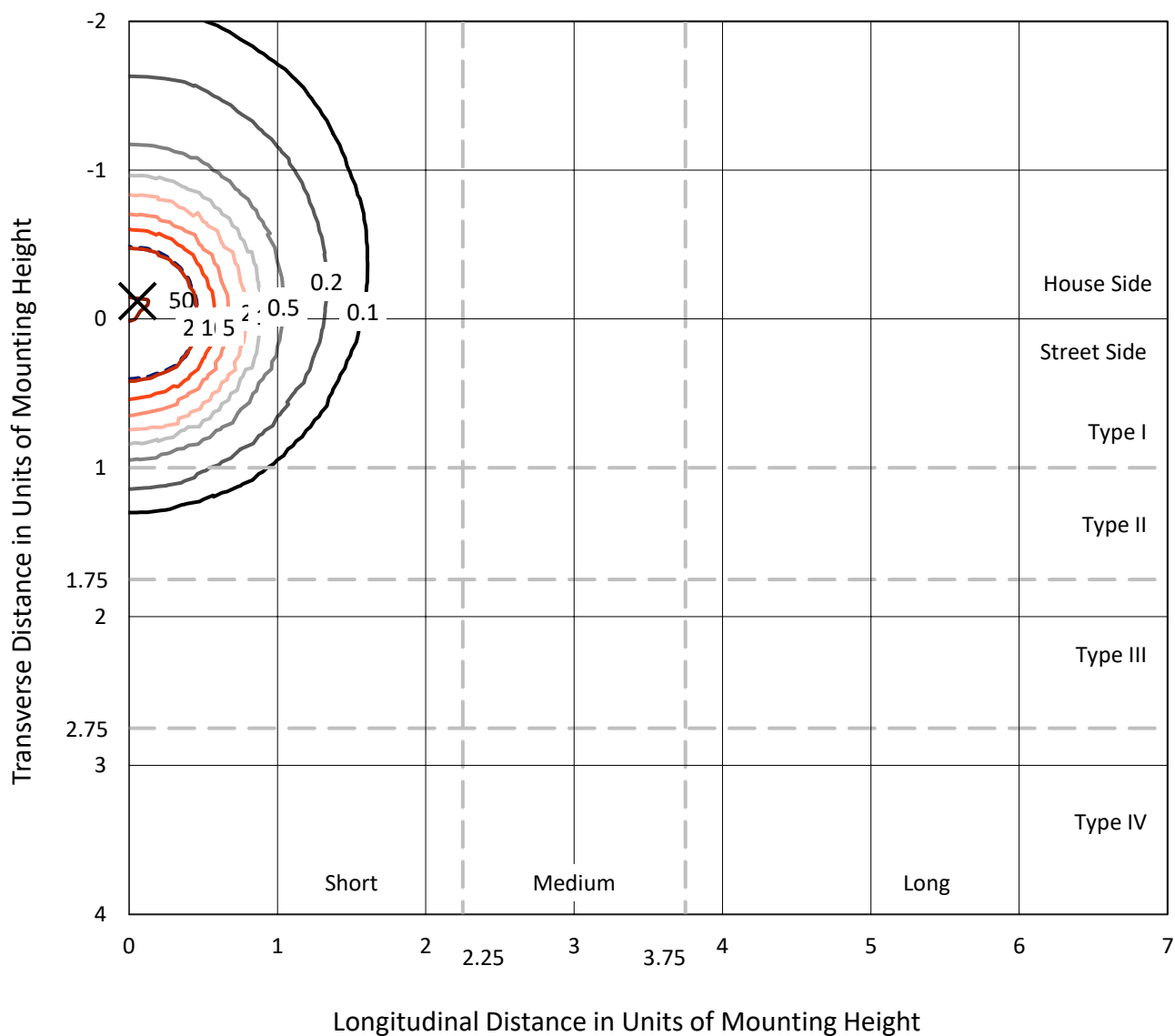
REPORT NUMBER: P637610

CATALOG NUMBER: IFLD-S-SA2D-735-U-55-VI

Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

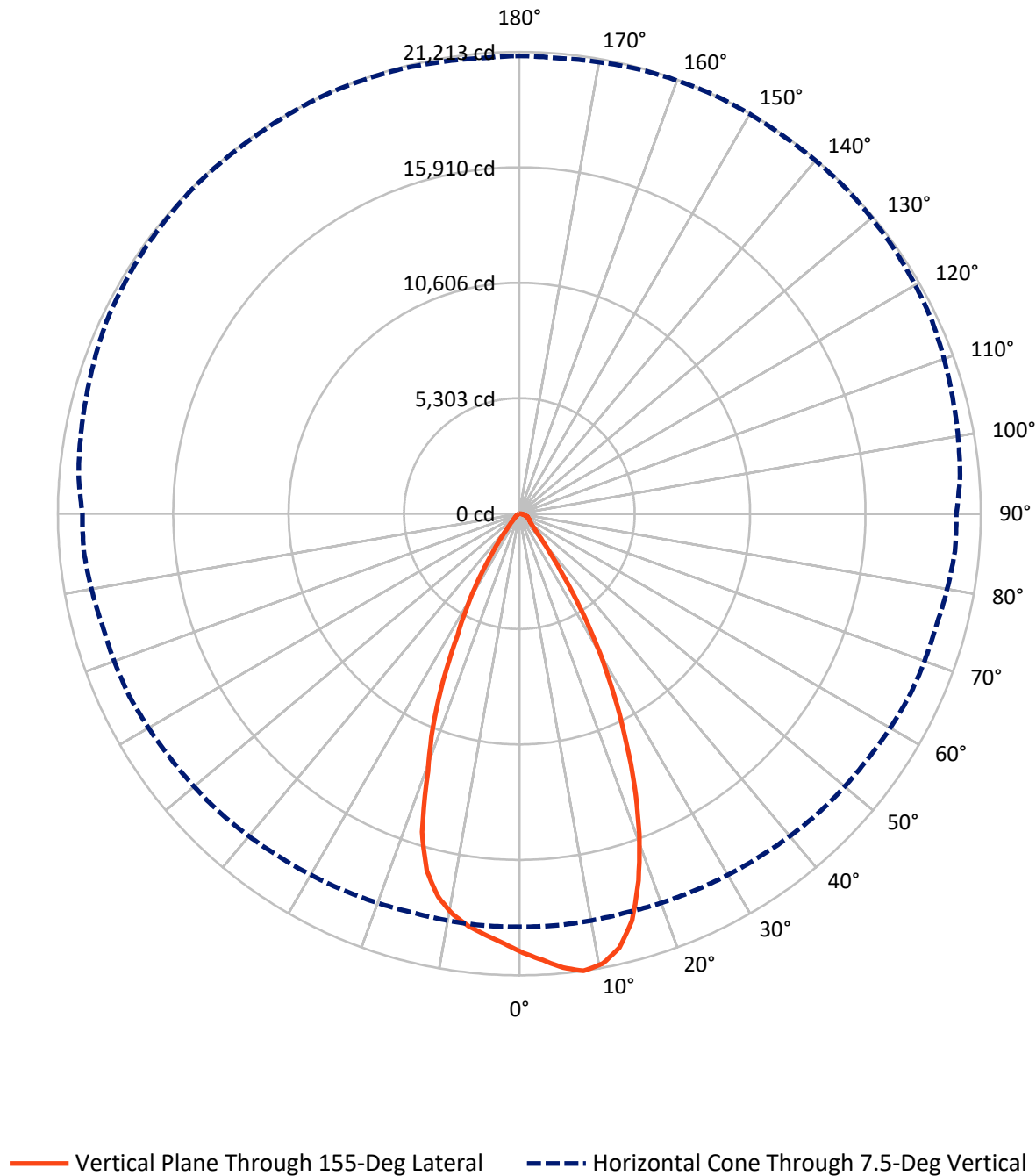


Based on 20 foot mounting height. Maximum calculated value = 51.3 fc

Type I - Short - N/A

REPORT NUMBER: P637610
CATALOG NUMBER: IFLD-S-SA2D-735-U-55-VI

Luminous Intensity Polar Plot



REPORT NUMBER: P637610

CATALOG NUMBER: IFLD-S-SA2D-735-U-55-VI

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7998.8	0.0	7998.8
	% Fixture	55.2	0.0	55.2
Street Side	Lumens	6490.8	0.0	6490.8
	% Fixture	44.8	0.0	44.8
Total	Lumens	14489.6	0.0	14489.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1924.8	13.3
10°-20°	4991.0	34.4
20°-30°	4573.1	31.6
30°-40°	1847.5	12.8
40°-50°	542.0	3.7
50°-60°	303.0	2.1
60°-70°	184.1	1.3
70°-80°	93.5	0.6
80°-90°	30.6	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°	14489.6	100.0
0°-180°	14489.6	100.0

Coefficient of Utilization



REPORT NUMBER: P637610

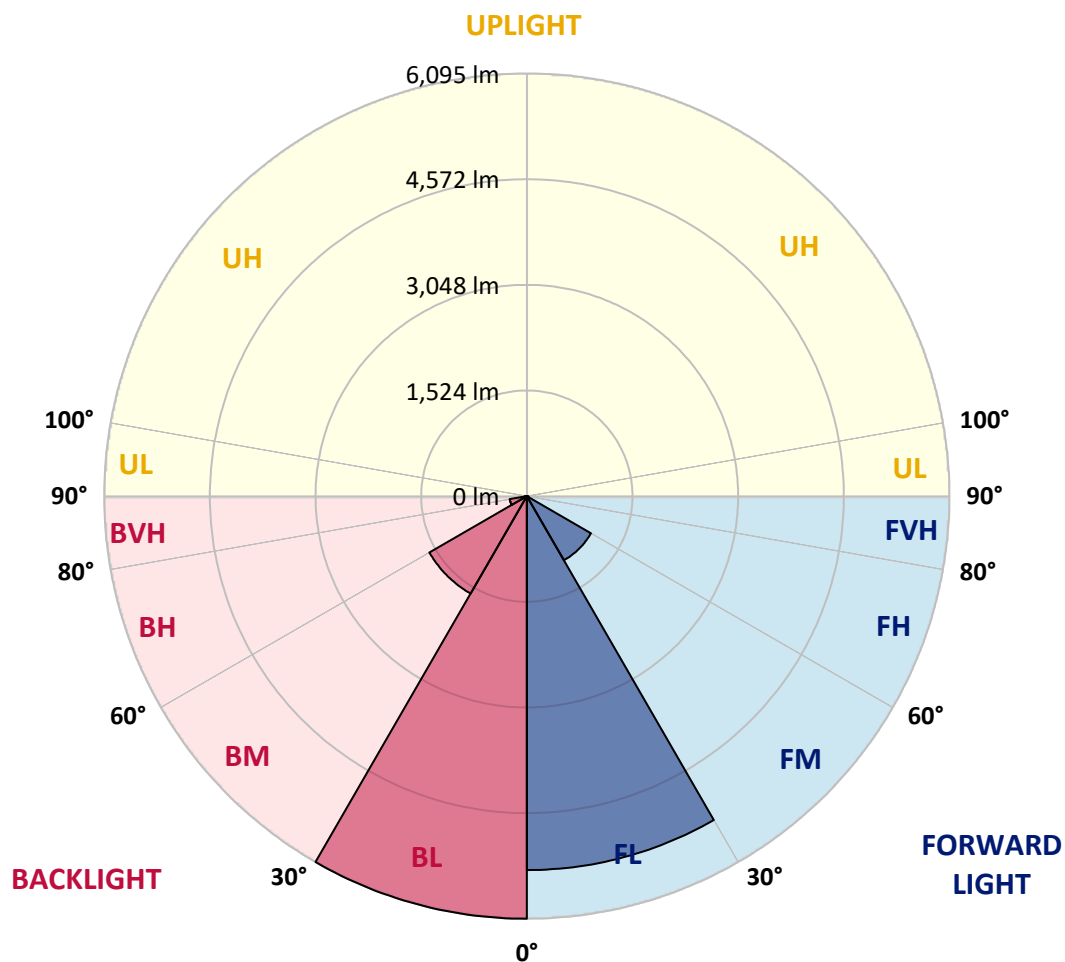
CATALOG NUMBER: IFLD-S-SA2D-735-U-55-VI

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	5393.4	37.2			
FM	(30°-60°)	1068.9	7.4			
FH	(60°-80°)	25.9	0.2			G0/660
FVH	(80°-90°)	2.7	0.0			G0/10
BL	(0°-30°)	6095.5	42.1	B5		
BM	(30°-60°)	1623.7	11.2	B2/2500		
BH	(60°-80°)	251.7	1.7	B1/500		G1/500
BVH	(80°-90°)	27.9	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-G1

Type I Short



REPORT NUMBER: P637610

CATALOG NUMBER: IFLD-S-SA2D-735-U-55-VI

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	20185.1	20185.1	20185.1	20185.1	20185.1	20185.1	20185.1	20185.1	20185.1	20185.1
2.5°	19747.4	19814.2	19680.5	19769.1	19837.6	20001.3	20014.7	20071.5	20091.6	20240.3
5°	19373.1	19424.9	19316.3	19434.9	19531.8	19677.2	19789.1	19946.2	20033.1	20208.5
7.5°	18983.8	18995.5	18973.8	19099.1	19244.5	19444.9	19583.6	19789.1	19842.6	20093.2
10°	18512.6	18427.4	18469.2	18653.0	18870.2	19177.6	19272.9	19478.4	19573.6	19829.2
12.5°	17760.8	17804.2	17752.4	17986.3	18166.8	18516.0	18616.2	18823.4	19005.5	19231.1
15°	16701.5	16676.4	16781.7	16963.8	17159.3	17436.6	17598.7	17824.3	17962.9	18196.9
17.5°	14320.6	14405.8	14840.2	15296.3	15697.3	16021.4	16215.3	16402.4	16502.6	16756.6
20°	12367.4	12260.4	12318.9	12576.2	13717.4	14213.6	14417.5	14462.6	14504.3	14704.8
22.5°	10183.6	10148.5	10344.0	10633.1	10903.7	12048.2	12325.6	12220.3	12307.2	12496.0
25°	7562.1	7739.2	7913.0	8467.7	8818.6	9380.0	9906.3	9953.0	9984.8	10103.4
27.5°	6155.3	6093.5	6090.1	6245.5	6763.5	7231.3	7679.1	7782.7	7764.3	7877.9
30°	4838.7	4818.6	4748.5	4785.2	4733.4	5149.5	5360.0	5786.0	5762.6	5766.0
32.5°	3490.3	3415.1	3386.7	3441.9	3388.4	3350.0	3533.8	4015.0	4006.6	4040.0
35°	2111.9	2101.9	2125.3	2173.7	2066.8	2063.5	2101.9	2554.7	2609.8	2663.3
37.5°	1166.2	1156.2	1174.6	1353.4	1318.3	1286.5	1296.6	1535.5	1694.2	1734.3
40°	768.6	766.9	780.3	812.0	872.2	860.5	865.5	972.4	1122.8	1157.9
42.5°	514.6	516.3	524.6	561.4	569.7	629.9	619.9	644.9	785.3	815.4
45°	411.0	409.3	414.4	397.7	407.7	469.5	476.2	477.9	598.2	616.5
47.5°	324.1	324.1	329.2	307.4	302.4	340.8	375.9	380.9	477.9	502.9
50°	227.2	227.2	252.3	242.3	254.0	265.7	304.1	309.1	391.0	417.7
52.5°	167.1	170.4	173.8	175.4	213.9	212.2	245.6	269.0	295.7	342.5
55°	127.0	130.3	122.0	130.3	158.7	177.1	183.8	217.2	235.6	287.4
57.5°	83.5	91.9	85.2	100.2	106.9	137.0	147.0	178.8	190.5	235.6
60°	11.7	13.4	21.7	70.2	75.2	90.2	113.6	142.0	153.7	192.1
62.5°	1.7	1.7	5.0	11.7	50.1	60.1	85.2	98.6	113.6	143.7
65°	0.0	0.0	1.7	3.3	10.0	35.1	43.4	53.5	78.5	103.6
67.5°	0.0	0.0	1.7	3.3	5.0	11.7	18.4	35.1	45.1	71.8
70°	0.0	0.0	1.7	3.3	5.0	6.7	10.0	13.4	26.7	41.8
72.5°	0.0	0.0	1.7	3.3	5.0	6.7	8.4	10.0	11.7	26.7
75°	0.0	0.0	1.7	3.3	5.0	8.4	10.0	10.0	10.0	11.7
77.5°	0.0	0.0	1.7	3.3	6.7	10.0	11.7	10.0	8.4	8.4
80°	0.0	0.0	1.7	5.0	8.4	11.7	13.4	10.0	6.7	5.0
82.5°	0.0	0.0	1.7	5.0	8.4	11.7	13.4	11.7	6.7	5.0
85°	0.0	0.0	1.7	5.0	6.7	8.4	13.4	11.7	6.7	3.3
87.5°	0.0	0.0	0.0	1.7	1.7	3.3	6.7	5.0	3.3	1.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P637610

CATALOG NUMBER: IFLD-S-SA2D-735-U-55-VI

CANDELA DISTRIBUTION (continued):

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°
20185.1	0°	20185.1	20185.1	20185.1	20185.1	20185.1	20185.1	20185.1	20185.1	20185.1
20236.9	2.5°	20387.3	20462.5	20594.5	20631.2	20744.8	20614.5	20542.7	20549.4	20394.0
20186.8	5°	20387.3	20559.4	20790.0	20900.2	20983.8	20977.1	20958.7	20911.9	20798.3
20086.5	7.5°	20333.8	20614.5	20932.0	21079.0	21179.3	21170.9	21212.7	21137.5	20998.8
19907.8	10°	20161.7	20405.7	20796.6	20916.9	21079.0	21082.3	21030.6	21045.6	20798.3
19254.5	12.5°	19620.4	19810.9	20153.4	20290.4	20487.5	20519.3	20462.5	20440.8	20206.8
18183.5	15°	18572.8	18683.1	19027.2	19164.3	19359.7	19333.0	19389.8	19366.4	19160.9
16736.6	17.5°	17040.6	17075.7	17436.6	17551.9	17735.7	17807.6	17722.3	17830.9	17653.8
14739.9	20°	14843.5	15032.3	15438.3	15615.4	15722.4	15851.0	15739.1	15861.1	15653.9
12317.3	22.5°	12614.7	12726.6	13094.2	13349.8	13548.6	13573.7	13531.9	13617.1	13338.1
10181.9	25°	10180.3	10365.7	10656.5	10990.6	11186.1	11306.4	11197.8	11252.9	11207.8
7896.3	27.5°	8029.9	8195.3	8414.2	8663.2	8957.2	9114.3	9027.4	9121.0	8900.4
5888.0	30°	5893.0	5976.5	6223.8	6487.8	6810.2	7000.7	7009.1	7104.3	6974.0
4125.2	32.5°	4155.3	4228.8	4380.9	4556.3	4863.7	5075.9	5042.5	5055.9	4975.7
2688.3	35°	2701.7	2800.3	2908.9	2992.4	3177.9	3411.8	3393.4	3376.7	3321.6
1767.7	37.5°	1806.2	1844.6	1904.7	1979.9	2100.2	2247.2	2295.7	2235.6	2212.2
1193.0	40°	1221.4	1288.2	1328.3	1385.1	1441.9	1565.6	1599.0	1587.3	1563.9
835.4	42.5°	867.2	918.9	969.1	1024.2	1054.3	1131.1	1196.3	1177.9	1167.9
634.9	45°	658.3	705.1	763.6	805.3	835.4	880.5	942.3	949.0	934.0
509.6	47.5°	528.0	569.7	616.5	668.3	703.4	731.8	785.3	805.3	795.3
429.4	50°	447.8	479.5	524.6	576.4	614.9	639.9	686.7	708.4	701.7
359.2	52.5°	380.9	419.4	461.1	504.6	551.4	576.4	619.9	651.6	646.6
297.4	55°	315.8	365.9	409.3	452.8	506.3	531.3	569.7	611.5	603.2
252.3	57.5°	275.7	317.5	362.6	404.3	461.1	494.6	529.6	573.1	571.4
207.2	60°	230.6	272.3	322.5	357.6	417.7	464.5	496.2	541.3	544.7
157.1	62.5°	183.8	235.6	274.0	322.5	377.6	432.7	462.8	507.9	524.6
120.3	65°	137.0	193.8	237.3	285.7	337.5	399.3	426.1	471.2	487.9
86.9	67.5°	101.9	145.4	200.5	242.3	300.7	354.2	386.0	427.7	439.4
51.8	70°	76.9	111.9	167.1	203.8	264.0	307.4	339.2	370.9	386.0
35.1	72.5°	45.1	83.5	132.0	175.4	227.2	264.0	287.4	312.4	322.5
16.7	75°	31.7	63.5	103.6	145.4	183.8	213.9	235.6	257.3	267.3
8.4	77.5°	16.7	46.8	81.9	117.0	143.7	168.8	190.5	207.2	213.9
6.7	80°	10.0	33.4	66.8	91.9	110.3	132.0	153.7	165.4	163.7
5.0	82.5°	6.7	26.7	48.5	66.8	80.2	96.9	111.9	120.3	120.3
3.3	85°	5.0	18.4	33.4	51.8	53.5	66.8	70.2	78.5	80.2
3.3	87.5°	3.3	11.7	18.4	30.1	28.4	35.1	36.8	41.8	45.1
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

180°
20185.1
20268.7
20835.1
21030.6
20726.5
20153.4
19226.1
17610.4
15637.2
13299.7
11179.4
8957.2
6997.4
5020.8
3273.1
2207.1
1567.2
1159.5
932.3
790.3
700.1
643.3
603.2
569.7
544.7
523.0
486.2
439.4
382.6
319.1
264.0
212.2
162.1
118.6
78.5
43.4
0.0

(END OF REPORT)