

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: P637628

Luminaire Tested: **IFLD-L-SA7B-735-U-55-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637628
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7B-735-U-55-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 5 distribution lens and Visor
Light Source: (112) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32993.6 lumens
Efficiency: N/A
Efficacy: 117.4 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G2

Input Watts (W): 281
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



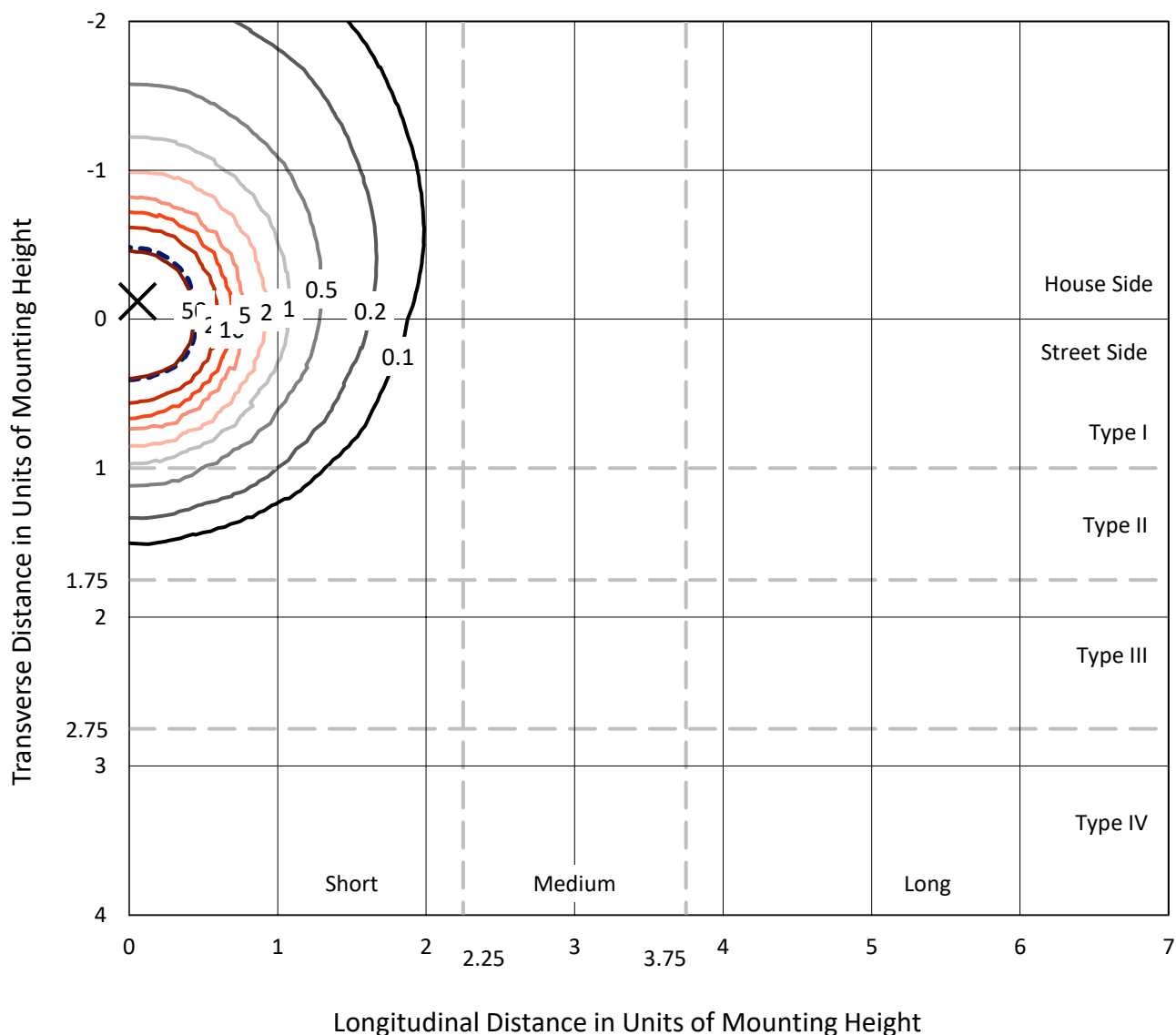
REPORT NUMBER: P637628

CATALOG NUMBER: IFLD-L-SA7B-735-U-55-VI

Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

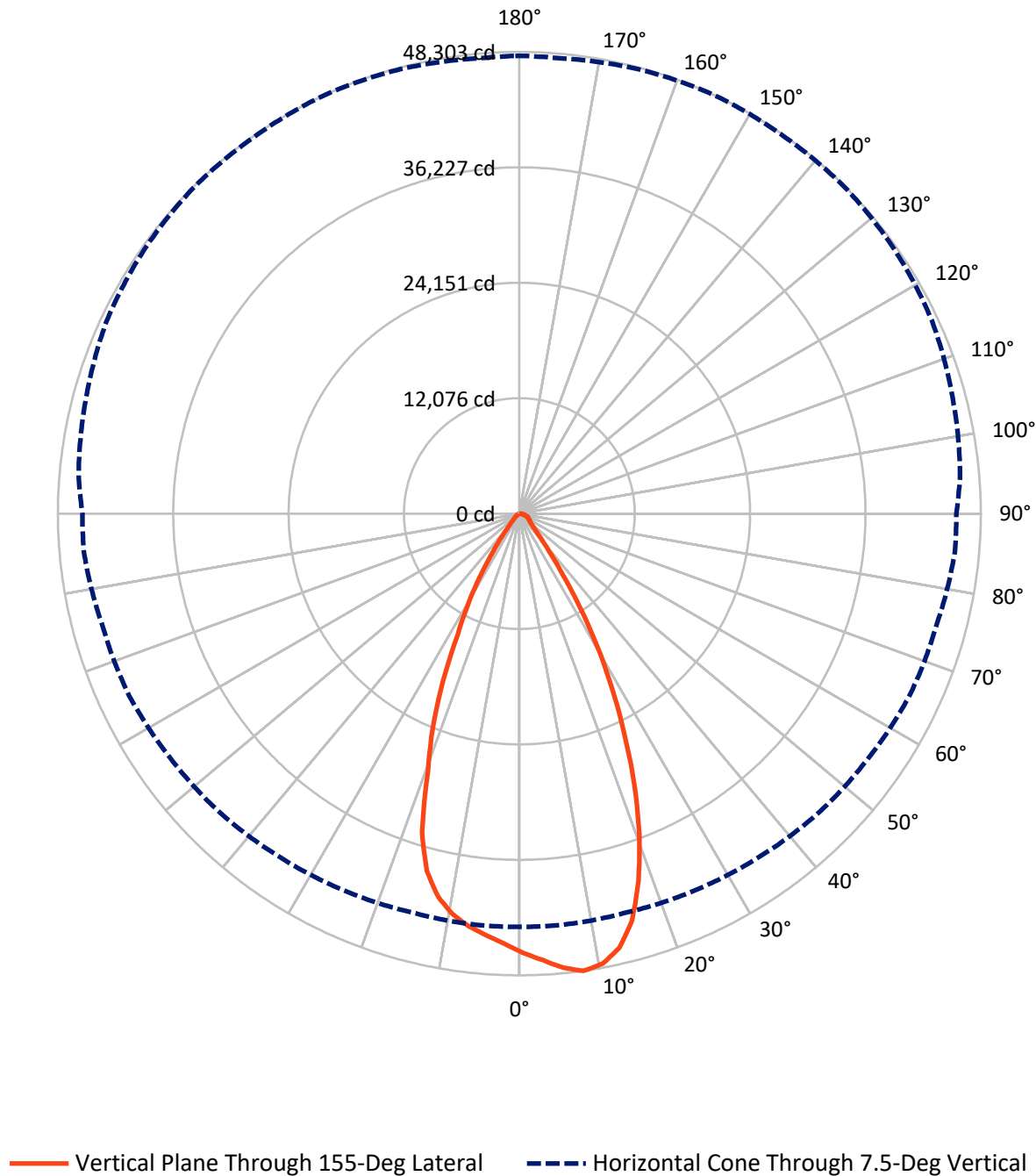


Based on 20 foot mounting height. Maximum calculated value = 116.8 fc

Type I - Short - N/A

REPORT NUMBER: P637628
CATALOG NUMBER: IFLD-L-SA7B-735-U-55-VI

Luminous Intensity Polar Plot



REPORT NUMBER: P637628

CATALOG NUMBER: IFLD-L-SA7B-735-U-55-VI

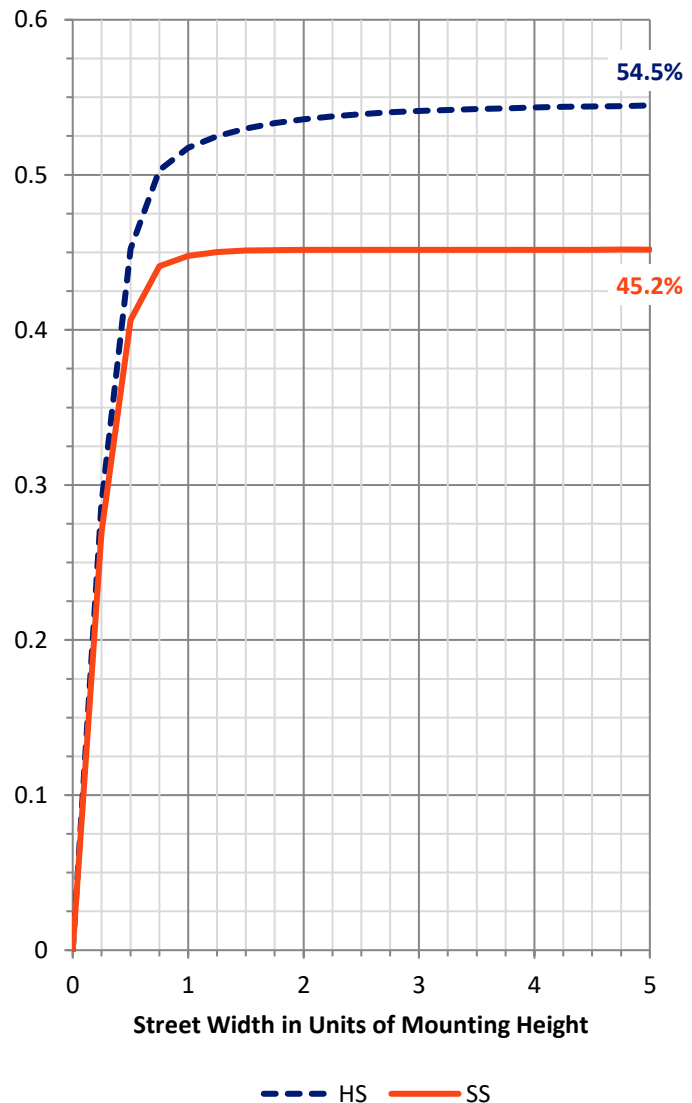
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	18213.7	0.0	18213.7
	% Fixture	55.2	0.0	55.2
Street Side	Lumens	14779.9	0.0	14779.9
	% Fixture	44.8	0.0	44.8
Total	Lumens	32993.6	0.0	32993.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4382.8	13.3
10°-20°	11364.7	34.4
20°-30°	10413.3	31.6
30°-40°	4207.0	12.8
40°-50°	1234.1	3.7
50°-60°	690.0	2.1
60°-70°	419.1	1.3
70°-80°	212.9	0.6
80°-90°	69.6	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°	32993.6	100.0
0°-180°	32993.6	100.0

Coefficient of Utilization



REPORT NUMBER: P637628

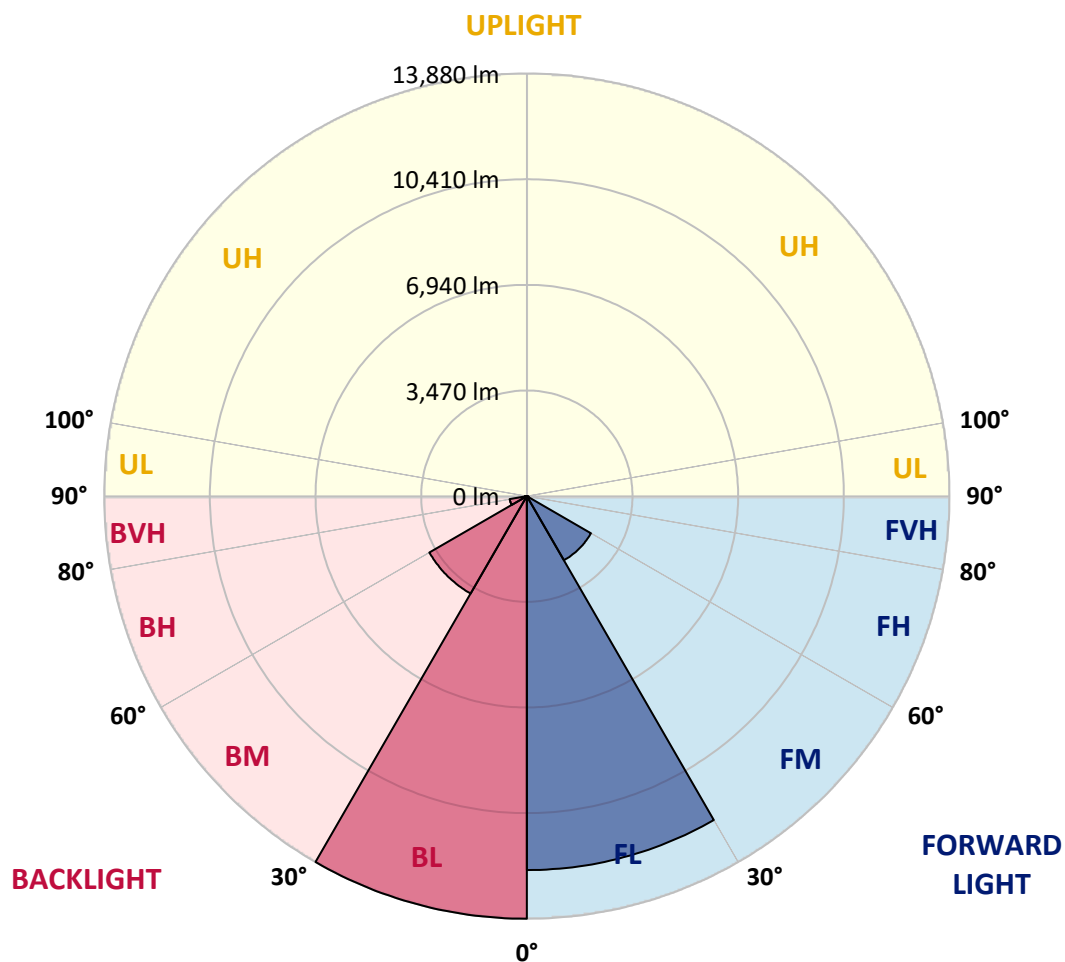
CATALOG NUMBER: IFLD-L-SA7B-735-U-55-VI

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	12281.1	37.2			
FM	(30°-60°)	2433.9	7.4			
FH	(60°-80°)	58.9	0.2			G0/660
FVH	(80°-90°)	6.0	0.0			G0/10
BL	(0°-30°)	13879.8	42.1	B5		
BM	(30°-60°)	3697.2	11.2	B3/5000		
BH	(60°-80°)	573.1	1.7	B2/1000		G2/1000
BVH	(80°-90°)	63.6	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-G2

Type I Short



REPORT NUMBER: P637628

CATALOG NUMBER: IFLD-L-SA7B-735-U-55-VI

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	45962.7	45962.7	45962.7	45962.7	45962.7	45962.7	45962.7	45962.7	45962.7	45962.7
2.5°	44965.9	45118.1	44813.7	45015.3	45171.3	45544.2	45574.6	45704.0	45749.6	46088.2
5°	44113.7	44231.6	43984.3	44254.4	44475.1	44806.1	45061.0	45418.6	45616.4	46015.9
7.5°	43227.2	43253.8	43204.4	43489.7	43820.7	44277.2	44593.0	45061.0	45182.7	45753.4
10°	42154.3	41960.3	42055.4	42473.9	42968.5	43668.5	43885.4	44353.3	44570.2	45152.3
12.5°	40442.3	40541.2	40423.2	40955.9	41366.8	42161.9	42390.2	42862.0	43276.7	43790.3
15°	38030.2	37973.1	38212.8	38627.5	39072.6	39704.2	40073.2	40586.8	40902.6	41435.3
17.5°	32608.7	32802.8	33791.9	34830.6	35743.7	36481.7	36923.1	37349.2	37577.5	38155.7
20°	28161.2	27917.7	28050.9	28636.8	31235.3	32365.2	32829.4	32932.1	33027.2	33483.8
22.5°	23188.7	23108.8	23553.9	24212.1	24828.4	27434.5	28066.1	27826.4	28024.2	28454.2
25°	17219.4	17622.6	18018.3	19281.4	20080.4	21358.7	22557.1	22663.7	22735.9	23006.1
27.5°	14015.9	13875.2	13867.6	14221.4	15400.8	16466.1	17485.7	17721.6	17679.7	17938.4
30°	11018.0	10972.3	10812.5	10896.2	10778.3	11725.6	12205.0	13175.1	13121.9	13129.5
32.5°	7947.7	7776.5	7711.8	7837.4	7715.6	7628.1	8046.6	9142.3	9123.3	9199.4
35°	4808.9	4786.1	4839.4	4949.7	4706.2	4698.6	4786.1	5817.1	5942.7	6064.4
37.5°	2655.6	2632.7	2674.6	3081.7	3001.8	2929.5	2952.3	3496.4	3857.8	3949.1
40°	1750.1	1746.3	1776.7	1849.0	1986.0	1959.3	1970.8	2214.2	2556.7	2636.5
42.5°	1171.8	1175.6	1194.6	1278.3	1297.3	1434.3	1411.5	1468.6	1788.1	1856.6
45°	935.9	932.1	943.5	905.5	928.3	1069.1	1084.3	1088.1	1362.0	1403.9
47.5°	738.1	738.1	749.5	700.0	688.6	776.1	856.0	867.4	1088.1	1145.2
50°	517.4	517.4	574.5	551.7	578.3	604.9	692.4	703.8	890.3	951.1
52.5°	380.5	388.1	395.7	399.5	487.0	483.2	559.3	612.5	673.4	779.9
55°	289.1	296.8	277.7	296.8	361.4	403.3	418.5	494.6	536.4	654.4
57.5°	190.2	209.2	194.0	228.3	243.5	312.0	334.8	407.1	433.7	536.4
60°	26.6	30.4	49.5	159.8	171.2	205.4	258.7	323.4	350.0	437.5
62.5°	3.8	3.8	11.4	26.6	114.1	137.0	194.0	224.5	258.7	327.2
65°	0.0	0.0	3.8	7.6	22.8	79.9	98.9	121.7	178.8	235.9
67.5°	0.0	0.0	3.8	7.6	11.4	26.6	41.8	79.9	102.7	163.6
70°	0.0	0.0	3.8	7.6	11.4	15.2	22.8	30.4	60.9	95.1
72.5°	0.0	0.0	3.8	7.6	11.4	15.2	19.0	22.8	26.6	60.9
75°	0.0	0.0	3.8	7.6	11.4	19.0	22.8	22.8	22.8	26.6
77.5°	0.0	0.0	3.8	7.6	15.2	22.8	26.6	22.8	19.0	19.0
80°	0.0	0.0	3.8	11.4	19.0	26.6	30.4	22.8	15.2	11.4
82.5°	0.0	0.0	3.8	11.4	19.0	26.6	30.4	26.6	15.2	11.4
85°	0.0	0.0	3.8	11.4	15.2	19.0	30.4	26.6	15.2	7.6
87.5°	0.0	0.0	0.0	3.8	3.8	7.6	15.2	11.4	7.6	3.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P637628

CATALOG NUMBER: IFLD-L-SA7B-735-U-55-VI

CANDELA DISTRIBUTION (continued):

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°
45962.7	0°	45962.7	45962.7	45962.7	45962.7	45962.7	45962.7	45962.7	45962.7	45962.7
46080.6	2.5°	46423.0	46594.2	46894.8	46978.5	47237.2	46940.4	46776.8	46792.1	46438.2
45966.5	5°	46423.0	46814.9	47339.9	47591.0	47781.2	47766.0	47724.2	47617.6	47358.9
45738.2	7.5°	46301.3	46940.4	47663.3	47998.1	48226.4	48207.3	48302.5	48131.2	47815.5
45331.1	10°	45909.4	46464.9	47355.1	47629.1	47998.1	48005.7	47887.8	47922.0	47358.9
43843.5	12.5°	44676.7	45110.4	45890.4	46202.3	46651.3	46723.6	46594.2	46544.8	46012.1
41404.8	15°	42291.3	42542.4	43326.1	43638.1	44083.2	44022.3	44151.7	44098.4	43630.5
38110.1	17.5°	38802.5	38882.4	39704.2	39966.7	40385.2	40548.8	40354.8	40602.1	40198.8
33563.7	20°	33799.5	34229.5	35154.0	35557.2	35800.7	36093.7	35838.8	36116.5	35644.7
28047.1	22.5°	28724.3	28979.2	29816.2	30398.3	30851.0	30908.1	30813.0	31007.0	30371.7
23184.9	25°	23181.1	23603.4	24265.4	25026.3	25471.4	25745.3	25498.0	25623.6	25520.9
17980.3	27.5°	18284.6	18661.3	19159.7	19726.5	20396.1	20753.8	20555.9	20769.0	20266.8
13407.2	30°	13418.6	13608.8	14171.9	14773.0	15507.3	15941.0	15960.0	16176.9	15880.2
9393.4	32.5°	9461.9	9629.3	9975.5	10375.0	11075.0	11558.2	11482.1	11512.5	11329.9
6121.5	35°	6151.9	6376.4	6623.7	6813.9	7236.2	7768.9	7727.0	7689.0	7563.4
4025.2	37.5°	4112.7	4200.2	4337.2	4508.4	4782.3	5117.1	5227.4	5090.5	5037.2
2716.4	40°	2781.1	2933.3	3024.6	3154.0	3283.3	3564.9	3640.9	3614.3	3561.1
1902.3	42.5°	1974.6	2092.5	2206.6	2332.2	2400.7	2575.7	2724.1	2682.2	2659.4
1445.7	45°	1499.0	1605.5	1738.7	1833.8	1902.3	2005.0	2145.8	2161.0	2126.7
1160.4	47.5°	1202.2	1297.3	1403.9	1521.8	1601.7	1666.4	1788.1	1833.8	1811.0
977.8	50°	1019.6	1091.9	1194.6	1312.6	1400.1	1457.1	1563.7	1613.1	1597.9
818.0	52.5°	867.4	954.9	1050.1	1149.0	1255.5	1312.6	1411.5	1483.8	1472.4
677.2	55°	719.1	833.2	932.1	1031.0	1152.8	1209.8	1297.3	1392.5	1373.4
574.5	57.5°	627.7	722.9	825.6	920.7	1050.1	1126.1	1206.0	1305.0	1301.2
471.8	60°	525.0	620.1	734.3	814.2	951.1	1057.7	1129.9	1232.7	1240.3
357.6	62.5°	418.5	536.4	623.9	734.3	859.8	985.4	1053.9	1156.6	1194.6
273.9	65°	312.0	441.3	540.2	650.6	768.5	909.3	970.2	1072.9	1110.9
197.8	67.5°	232.1	331.0	456.5	551.7	684.8	806.6	878.8	974.0	1000.6
117.9	70°	175.0	254.9	380.5	464.2	601.1	700.0	772.3	844.6	878.8
79.9	72.5°	102.7	190.2	300.6	399.5	517.4	601.1	654.4	711.4	734.3
38.0	75°	72.3	144.6	235.9	331.0	418.5	487.0	536.4	585.9	608.7
19.0	77.5°	38.0	106.5	186.4	266.3	327.2	384.3	433.7	471.8	487.0
15.2	80°	22.8	76.1	152.2	209.2	251.1	300.6	350.0	376.6	372.8
11.4	82.5°	15.2	60.9	110.3	152.2	182.6	220.7	254.9	273.9	273.9
7.6	85°	11.4	41.8	76.1	117.9	121.7	152.2	159.8	178.8	182.6
7.6	87.5°	7.6	26.6	41.8	68.5	64.7	79.9	83.7	95.1	102.7
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

180°
45962.7
46152.9
47442.6
47887.8
47195.3
45890.4
43778.9
40099.9
35606.7
30284.1
25456.2
20396.1
15933.4
11432.6
7453.1
5025.8
3568.7
2640.4
2122.9
1799.5
1594.1
1464.7
1373.4
1297.3
1240.3
1190.8
1107.1
1000.6
871.2
726.7
601.1
483.2
369.0
270.1
178.8
98.9
0.0

(END OF REPORT)