

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: P638413

Luminaire Tested: **IFLD-L-SA7D-735-U-LAM-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P638413
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7D-735-U-LAM-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/
Lambertian distribution lens and Visor
Light Source: (112) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 35459.4 lumens
Efficiency: N/A
Efficacy: 83.9 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G3

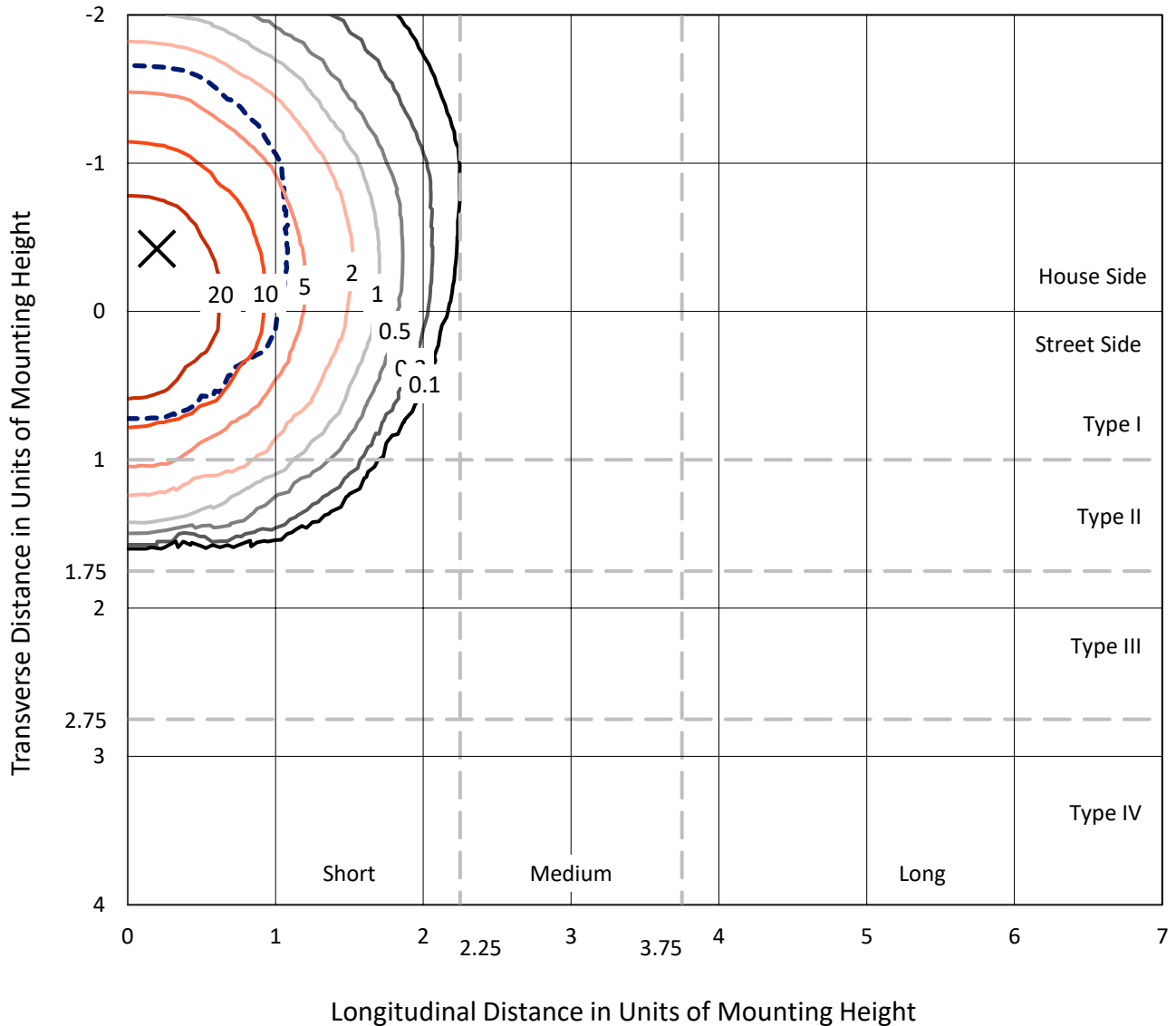
Input Watts (W): 422.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P638413
 CATALOG NUMBER: IFLD-L-SA7D-735-U-LAM-VI

Iso-Footcandle Lines of Horizontal Illumination

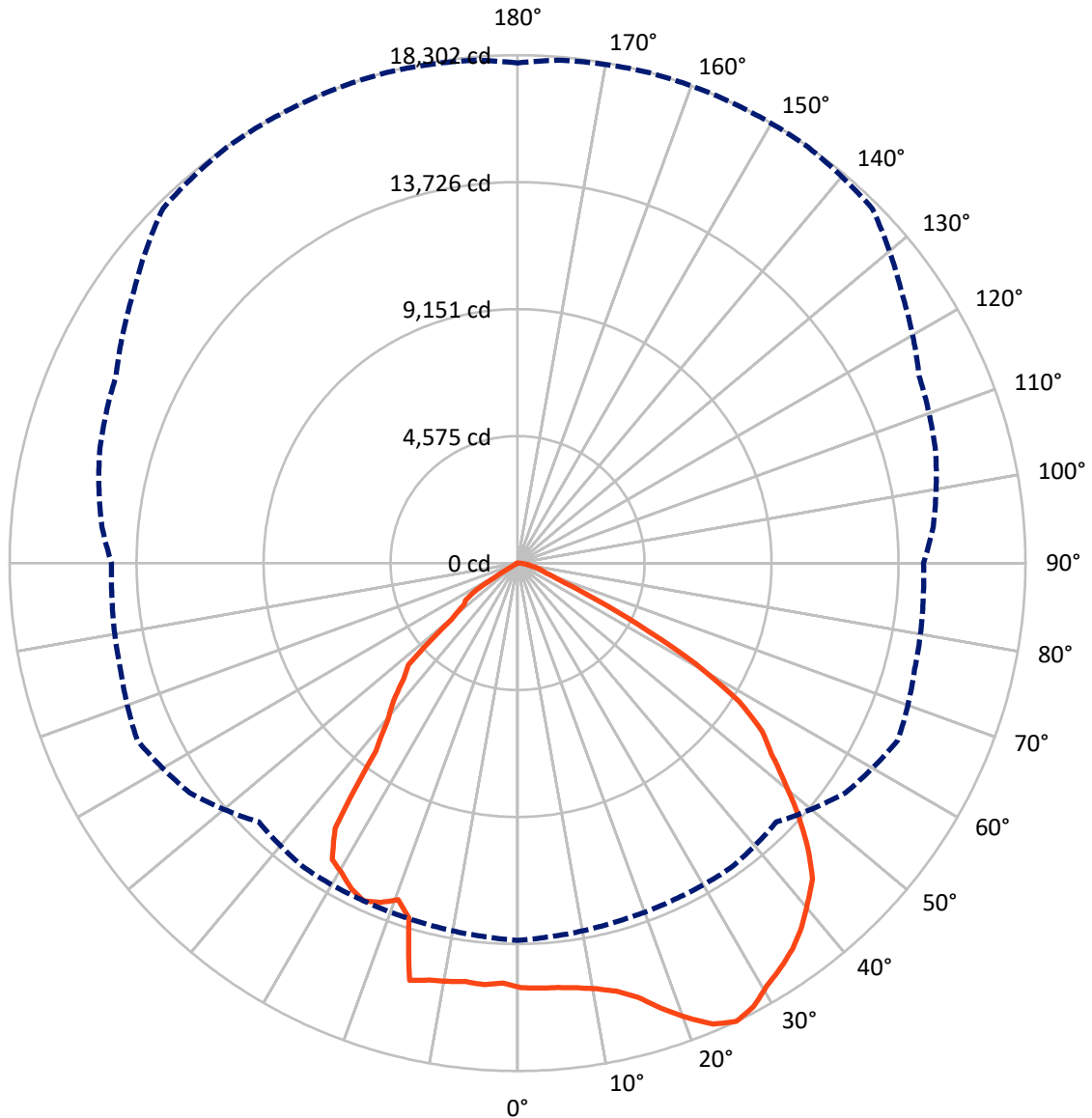
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 38.3 fc
 Type I - Short - N/A

REPORT NUMBER: P638413
CATALOG NUMBER: IFLD-L-SA7D-735-U-LAM-VI

Luminous Intensity Polar Plot



— Vertical Plane Through 155-Deg Lateral - - - Horizontal Cone Through 25-Deg Vertical

REPORT NUMBER: P638413
 CATALOG NUMBER: IFLD-L-SA7D-735-U-LAM-VI

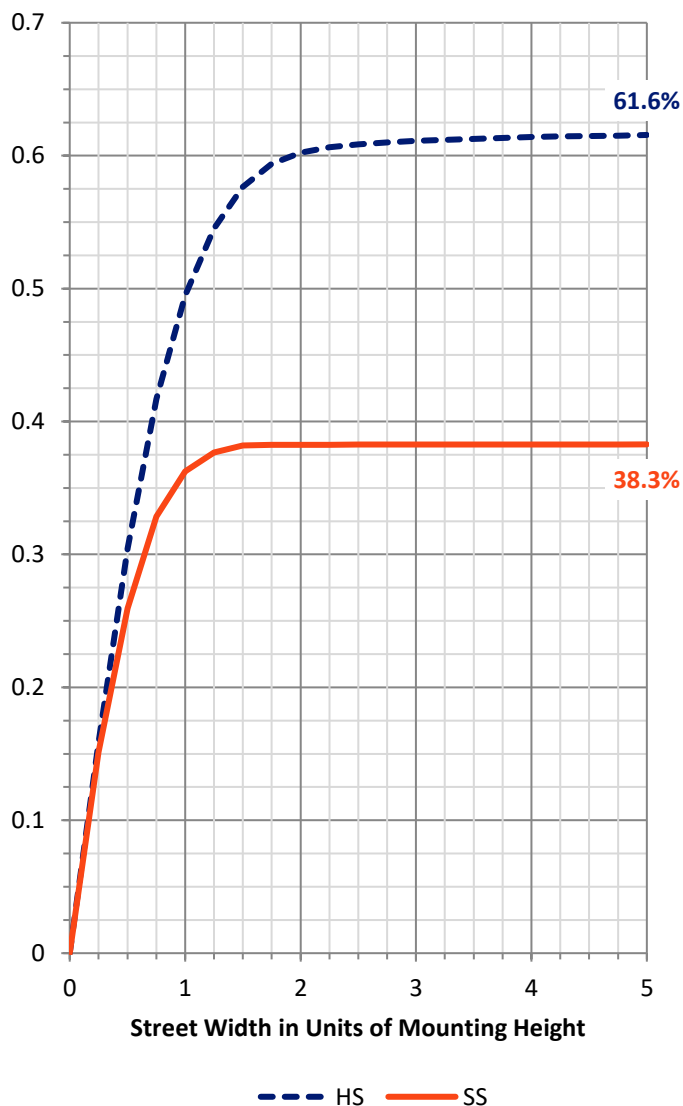
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	21953.0	0.0	21953.0
	% Fixture	61.9	0.0	61.9
Street Side	Lumens	13506.4	0.0	13506.4
	% Fixture	38.1	0.0	38.1
Total	Lumens	35459.4	0.0	35459.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1467.8	4.1
10°-20°	4482.0	12.6
20°-30°	7085.8	20.0
30°-40°	8004.0	22.6
40°-50°	7495.9	21.1
50°-60°	5167.9	14.6
60°-70°	1388.4	3.9
70°-80°	289.3	0.8
80°-90°	78.3	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°	35459.4	100.0
0°-180°	35459.4	100.0



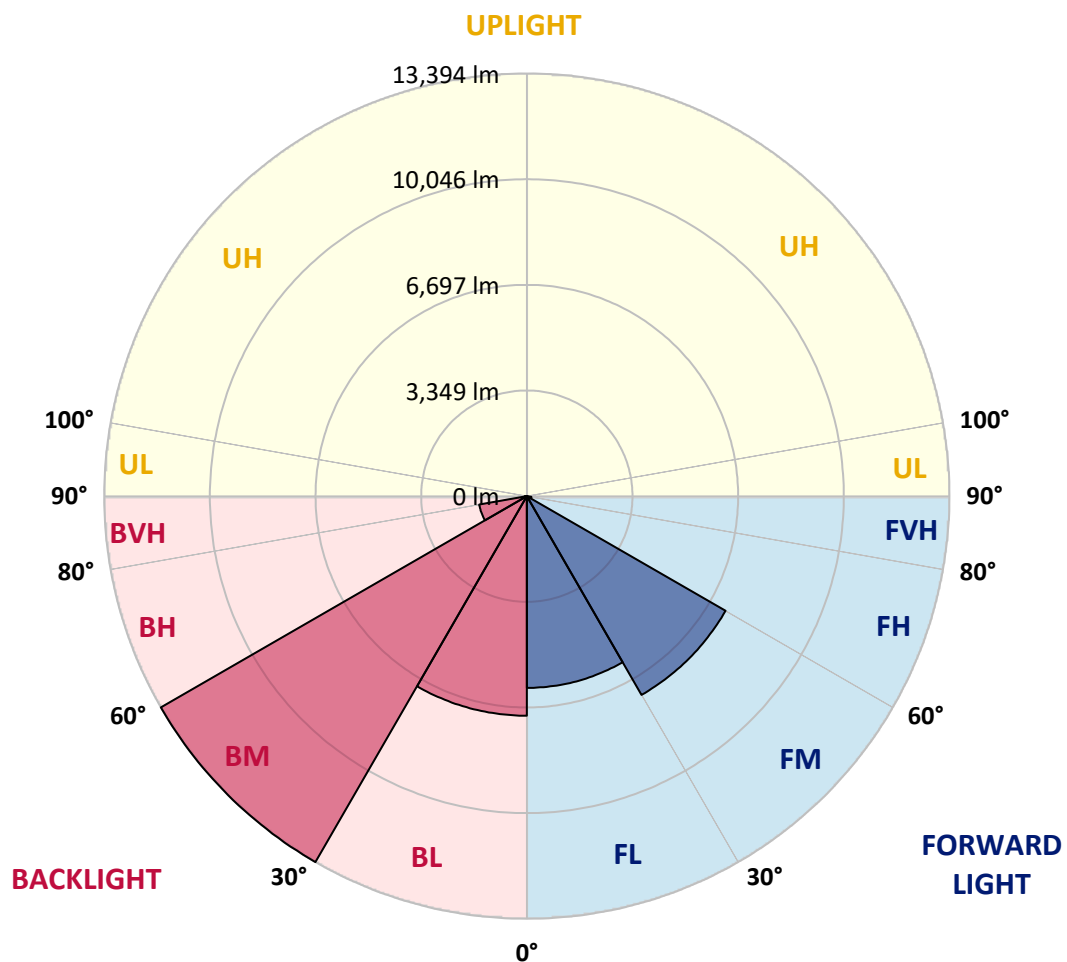
REPORT NUMBER: P638413
 CATALOG NUMBER: IFLD-L-SA7D-735-U-LAM-VI

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	6076.6	17.1			
FM (30°-60°)	7273.5	20.5			
FH (60°-80°)	145.8	0.4			G0/660
FVH (80°-90°)	10.5	0.0			G1/100
BL (0°-30°)	6959.0	19.6	B5		
BM (30°-60°)	13394.2	37.8	B5		
BH (60°-80°)	1532.0	4.3	B3/2500		G3/2500
BVH (80°-90°)	67.8	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-G3

Type I Short





REPORT NUMBER: P638413
 CATALOG NUMBER: IFLD-L-SA7D-735-U-LAM-VI

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	15300.1	15300.1	15300.1	15300.1	15300.1	15300.1	15300.1	15300.1	15300.1	15300.1
2.5°	15367.9	15268.8	15175.0	15143.8	15274.1	15414.8	15326.2	15331.4	15300.1	15357.4
5°	15482.5	15347.0	15284.5	15237.6	15258.4	15404.3	15279.3	15326.2	15274.1	15341.8
7.5°	15440.8	15347.0	15284.5	15195.9	15263.6	15435.6	15315.7	15321.0	15294.9	15357.4
10°	15414.8	15347.0	15268.8	15279.3	15357.4	15503.3	15409.5	15461.7	15425.2	15461.7
12.5°	15477.3	15404.3	15362.6	15362.6	15430.4	15597.1	15550.2	15597.1	15581.5	15612.8
15°	14888.4	14956.2	15352.2	15529.4	15664.9	15831.7	15810.8	15857.7	15868.1	15915.0
17.5°	12559.0	12491.3	12460.0	13372.0	15795.2	16311.1	16295.4	16290.2	16238.1	16201.6
20°	12866.5	12840.4	12803.9	12871.7	13142.7	16561.2	16665.4	16024.5	15836.9	15821.2
22.5°	13356.3	13314.6	13179.1	13184.4	13267.7	14398.6	16149.5	15565.9	15503.3	15466.9
25°	13596.0	13512.7	13403.2	13372.0	13398.0	13189.6	14424.6	15117.7	14810.3	14669.6
27.5°	13173.9	13179.1	13090.6	13173.9	13074.9	12136.9	11610.6	14242.2	14231.8	14169.3
30°	12856.1	12840.4	12736.2	12840.4	12157.7	11110.3	10886.2	13283.4	13173.9	13090.6
32.5°	11881.6	11892.0	12194.2	12600.7	11480.3	10651.7	9974.3	11865.9	12903.0	12856.1
35°	8499.5	8520.3	9593.8	11600.1	10453.7	9739.7	9687.6	10255.7	12475.6	12496.5
37.5°	8181.6	8181.6	8155.5	8483.8	9645.9	9369.8	9474.0	9416.7	11428.2	11480.3
40°	7952.3	7905.4	7868.9	7353.0	6706.8	9109.2	9182.1	8921.6	10802.8	10813.3
42.5°	7676.1	7624.0	7634.4	6680.8	6003.3	8463.0	8259.8	7910.6	9760.6	9771.0
45°	7170.6	7259.2	7321.7	5847.0	5794.9	6045.0	7618.8	7399.9	9057.1	9249.9
47.5°	3647.8	3726.0	5716.7	5378.0	5497.8	5372.8	6435.8	6441.1	7535.4	8176.4
50°	3309.1	3288.3	3293.5	3137.1	5075.7	4346.1	4653.6	5904.3	6034.6	6951.8
52.5°	3085.0	3079.8	2761.9	2454.5	3189.3	3825.0	3376.9	4273.2	4486.9	5888.7
55°	2282.5	2449.3	2178.3	2308.6	1995.9	3064.2	3048.6	3856.3	3929.3	4721.4
57.5°	20.8	26.1	62.5	1756.2	1381.0	1532.1	2105.3	2631.7	2761.9	3679.1
60°	5.2	10.4	26.1	52.1	896.3	943.2	1407.0	1521.7	1714.5	2193.9
62.5°	0.0	0.0	10.4	26.1	46.9	385.6	448.2	489.9	755.6	1120.4
65°	0.0	0.0	5.2	15.6	26.1	62.5	109.4	229.3	328.3	406.5
67.5°	0.0	0.0	5.2	10.4	20.8	31.3	62.5	88.6	140.7	239.7
70°	0.0	0.0	5.2	10.4	15.6	26.1	41.7	62.5	83.4	119.9
72.5°	0.0	0.0	5.2	10.4	10.4	31.3	31.3	46.9	62.5	78.2
75°	0.0	0.0	5.2	5.2	10.4	20.8	31.3	36.5	41.7	62.5
77.5°	0.0	0.0	5.2	10.4	15.6	20.8	26.1	41.7	36.5	36.5
80°	0.0	0.0	5.2	15.6	15.6	26.1	31.3	41.7	26.1	26.1
82.5°	0.0	0.0	5.2	20.8	15.6	52.1	52.1	57.3	20.8	20.8
85°	0.0	0.0	15.6	10.4	31.3	52.1	46.9	31.3	26.1	15.6
87.5°	0.0	0.0	5.2	5.2	10.4	15.6	36.5	31.3	10.4	10.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P638413
 CATALOG NUMBER: IFLD-L-SA7D-735-U-LAM-VI

CANDELA DISTRIBUTION (continued):

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°
15300.1	0°	15300.1	15300.1	15300.1	15300.1	15300.1	15300.1	15300.1	15300.1	15300.1
15206.3	2.5°	15414.8	15347.0	15487.7	15472.1	15404.3	15373.1	15336.6	15305.3	15076.0
15216.7	5°	15420.0	15315.7	15487.7	15456.4	15446.0	15393.9	15362.6	15409.5	15201.1
15258.4	7.5°	15420.0	15315.7	15503.3	15513.8	15498.1	15456.4	15451.2	15482.5	15310.5
15331.4	10°	15524.2	15482.5	15638.8	15654.5	15633.6	15623.2	15597.1	15576.3	15393.9
15581.5	12.5°	15743.1	15659.7	15836.9	15883.8	15868.1	15894.2	15831.7	15862.9	15675.3
15836.9	15°	16008.8	16014.0	16149.5	16253.8	16243.3	16326.7	16232.9	16316.3	16180.8
16128.7	17.5°	16415.3	16472.6	16665.4	16821.8	16879.1	16941.6	16879.1	16905.2	16712.3
15805.6	20°	15988.0	16201.6	17129.2	17415.9	17535.7	17593.0	17488.8	17520.1	17327.3
15409.5	22.5°	15602.4	15878.6	16701.9	17598.3	17968.2	18082.9	18046.4	18041.2	17968.2
14627.9	25°	15034.3	15591.9	15961.9	16910.4	18072.5	18280.9	18301.8	18296.6	18187.1
14148.4	27.5°	14336.0	14461.1	15420.0	15998.4	17342.9	18135.0	18103.7	17952.6	17806.7
13153.1	30°	13444.9	14012.9	14445.5	15367.9	16399.7	17686.8	17686.8	17572.2	17421.1
12798.7	32.5°	12991.5	13726.3	14127.6	14461.1	15341.8	17186.6	17395.0	17275.2	17155.3
12522.5	35°	12751.8	12861.3	13799.3	14101.5	14846.7	16222.5	17066.7	16946.8	16858.3
11787.8	37.5°	12225.5	12480.8	12918.6	13726.3	13955.6	15435.6	16629.0	16566.4	16462.2
10834.1	40°	11053.0	11735.6	12407.9	13173.9	13413.7	14424.6	16097.4	16123.5	15982.8
9817.9	42.5°	10359.9	10823.7	11876.3	12392.3	13038.4	13773.2	15581.5	15623.2	15524.2
9302.0	45°	9546.9	10062.8	10802.8	11740.9	12621.5	12876.9	14669.6	15107.3	15023.9
8275.4	47.5°	8801.7	9218.6	10125.4	11073.8	12048.3	12011.8	13622.1	14445.5	14330.8
7488.5	50°	7743.9	8473.4	8900.7	9771.0	11224.9	11324.0	12506.9	13669.0	13575.2
6362.9	52.5°	6529.6	7446.8	8265.0	9062.3	10391.1	10625.7	11469.9	12876.9	12814.4
4862.1	55°	5706.3	6373.3	7295.7	7936.7	9380.2	10005.5	10693.4	12121.3	12090.0
3997.0	57.5°	4059.5	5346.7	6107.5	7003.9	7764.7	8895.5	9406.2	10584.0	10292.1
2214.8	60°	2751.5	3356.0	4283.6	5247.7	5758.4	6889.2	7363.4	8306.7	8228.5
1323.6	62.5°	1453.9	2011.5	2673.3	3158.0	3528.0	4627.6	4825.6	5841.8	5815.7
531.5	65°	641.0	849.4	1448.7	1698.9	2079.3	2590.0	2761.9	3126.7	3038.1
260.6	67.5°	333.5	505.5	818.2	1005.8	1266.3	1459.1	1599.8	1714.5	1787.4
172.0	70°	203.2	370.0	505.5	698.3	870.3	1026.6	1136.0	1292.4	1386.2
88.6	72.5°	151.1	234.5	349.2	536.8	630.6	812.9	922.4	1037.0	1120.4
73.0	75°	83.4	156.3	281.4	422.1	505.5	661.8	760.8	839.0	865.1
41.7	77.5°	52.1	119.9	234.5	328.3	396.1	536.8	510.7	583.7	646.2
31.3	80°	36.5	88.6	182.4	271.0	276.2	343.9	406.5	469.0	510.7
20.8	82.5°	26.1	73.0	135.5	208.4	182.4	265.8	317.9	364.8	265.8
15.6	85°	20.8	52.1	67.7	125.1	104.2	187.6	161.5	156.3	104.2
10.4	87.5°	15.6	26.1	46.9	57.3	41.7	41.7	52.1	62.5	52.1
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
15300.1
14919.7
15023.9
15112.5
15242.8
15508.6
15956.7
16545.6
17191.8
17733.7
18020.4
17692.1
17363.7
17056.3
16733.2
16358.0
15951.5
15513.8
15034.3
14414.2
13590.8
12856.1
12126.5
10260.9
8233.7
5820.9
3001.7
1787.4
1391.4
1136.0
849.4
656.6
515.9
192.8
104.2
52.1
0.0

(END OF REPORT)