

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: P637881

Luminaire Tested: **IFLD-S-SA6D-735-U-66-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637881
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6D-735-U-66-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 6 distribution lens and Visor
Light Source: (96) 3500K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 38025 lumens
Efficiency: N/A
Efficacy: 103.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G2

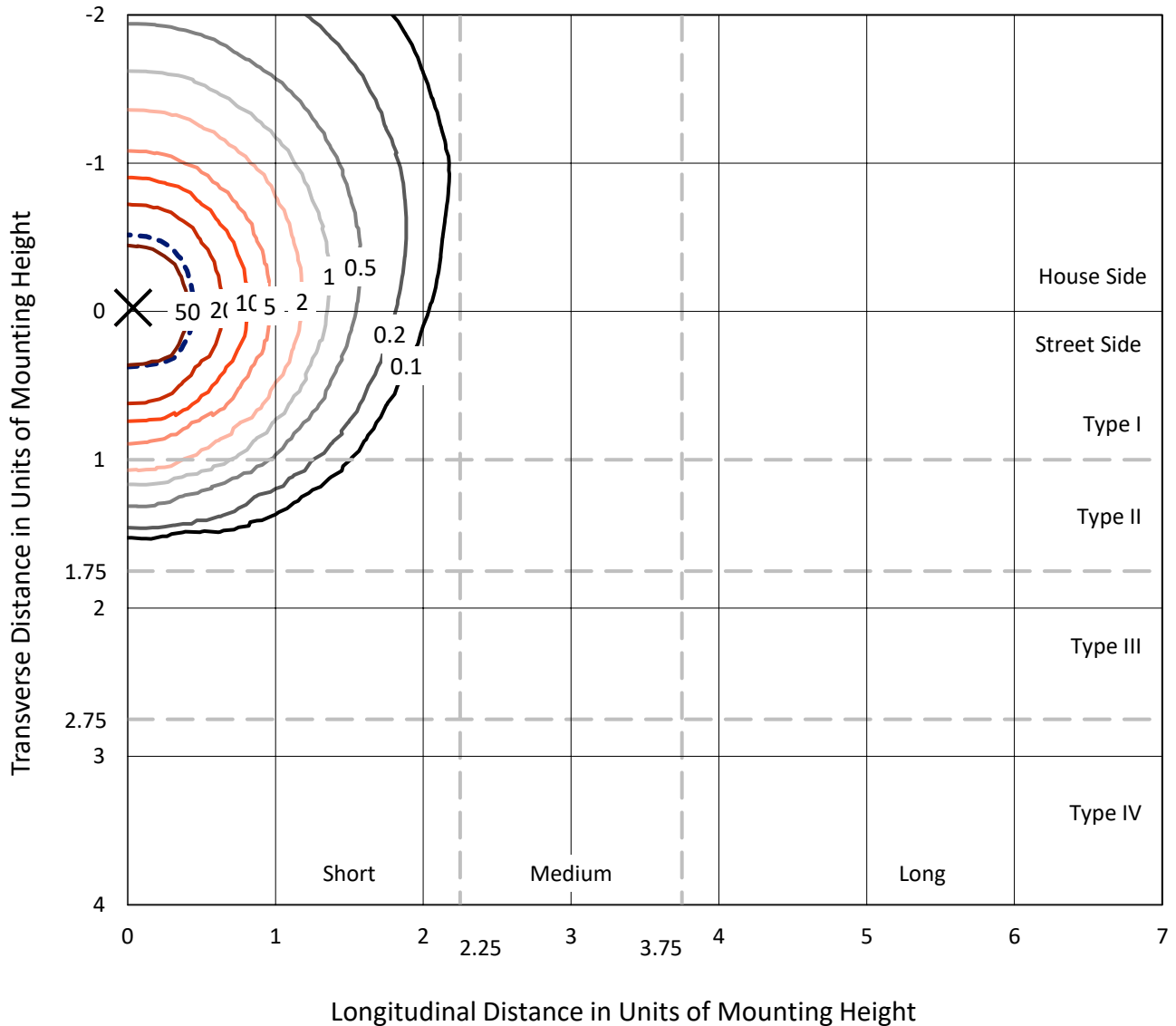
Input Watts (W): 368.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P637881
 CATALOG NUMBER: IFLD-S-SA6D-735-U-66-VI

Iso-Footcandle Lines of Horizontal Illumination

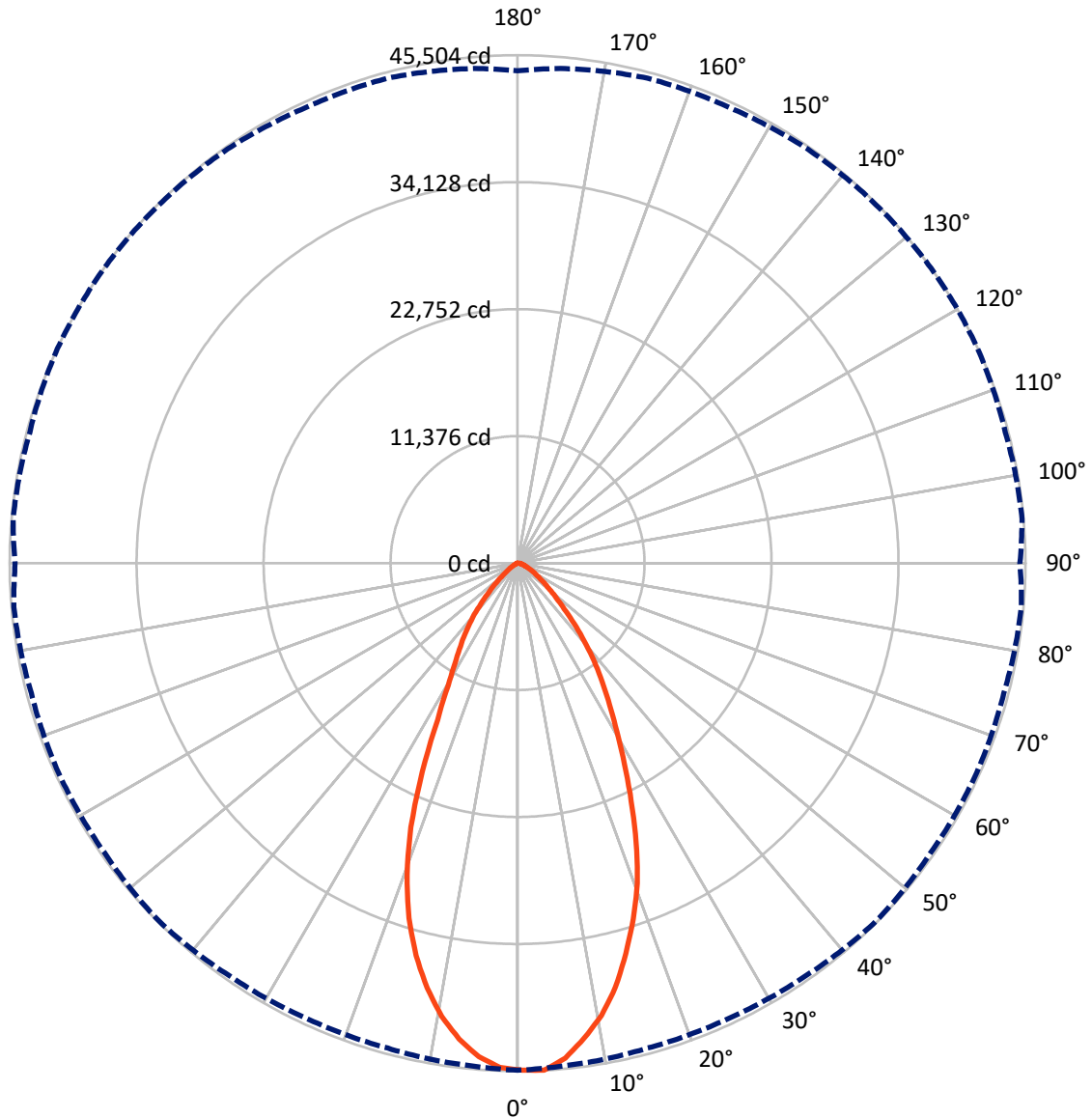
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 113.6 fc
 Type I - Short - N/A

REPORT NUMBER: P637881
CATALOG NUMBER: IFLD-S-SA6D-735-U-66-VI

Luminous Intensity Polar Plot



— Vertical Plane Through 125-Deg Lateral - - - Horizontal Cone Through 2.5-Deg Vertical

REPORT NUMBER: P637881

CATALOG NUMBER: IFLD-S-SA6D-735-U-66-VI

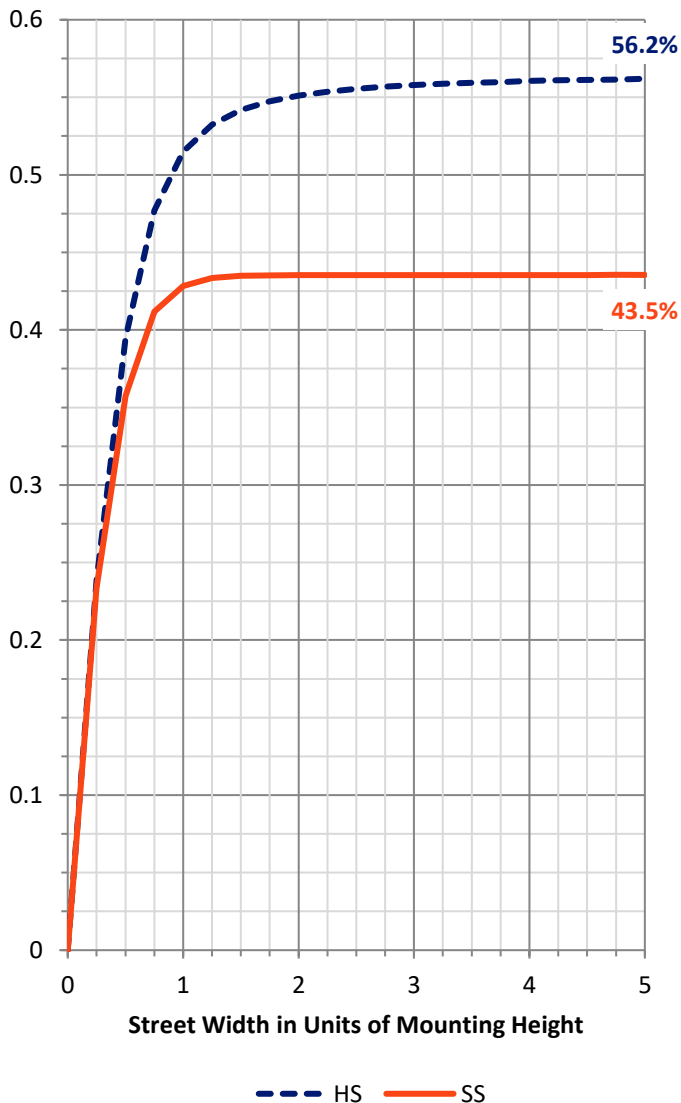
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	21576.9	0.0	21576.9
	% Fixture	56.7	0.0	56.7
Street Side	Lumens	16448.1	0.0	16448.1
	% Fixture	43.3	0.0	43.3
Total	Lumens	38025.0	0.0	38025.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4125.3	10.8
10°-20°	9833.7	25.9
20°-30°	10015.5	26.3
30°-40°	7468.5	19.6
40°-50°	3901.7	10.3
50°-60°	1641.1	4.3
60°-70°	670.2	1.8
70°-80°	282.1	0.7
80°-90°	86.9	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°	38025.0	100.0
0°-180°	38025.0	100.0



REPORT NUMBER: P637881

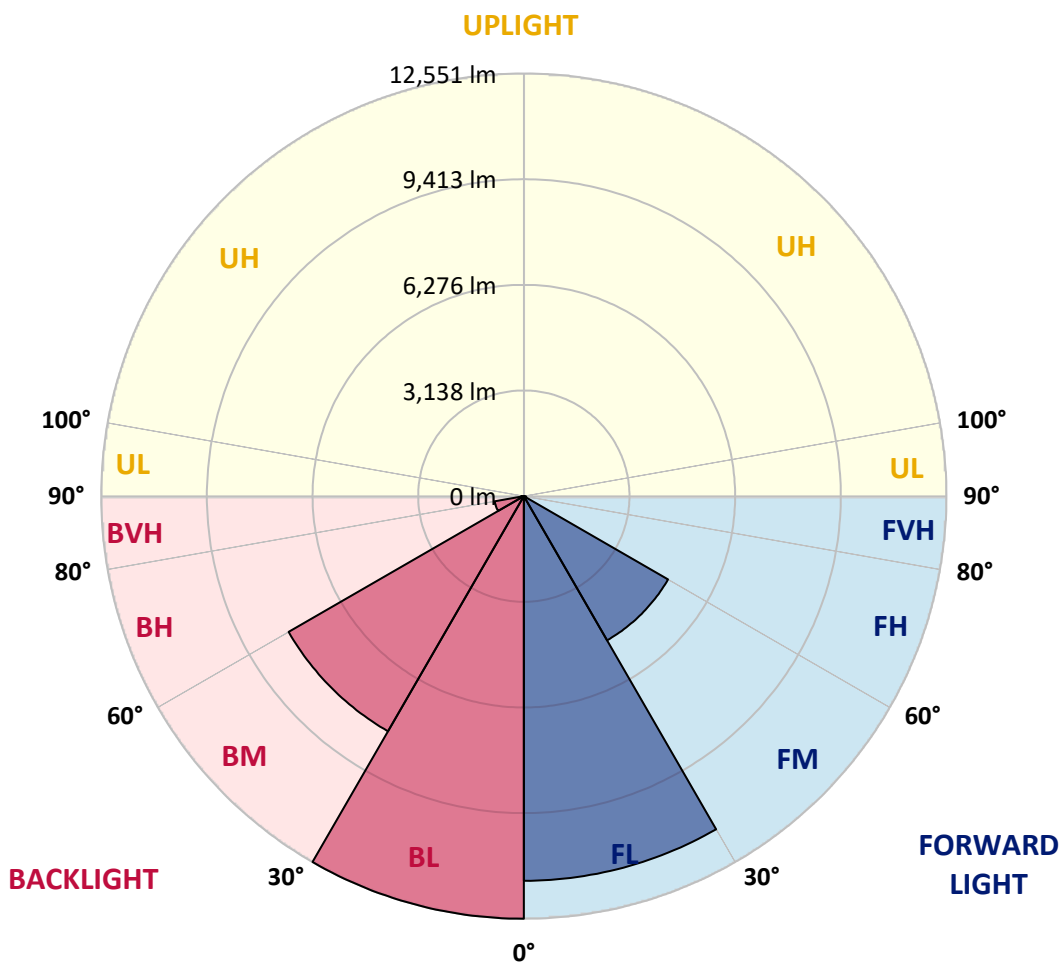
CATALOG NUMBER: IFLD-S-SA6D-735-U-66-VI

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	11423.2	30.0			
FM (30°-60°)	4945.3	13.0			
FH (60°-80°)	71.6	0.2			G0/660
FVH (80°-90°)	8.1	0.0			G0/10
BL (0°-30°)	12551.3	33.0	B5		
BM (30°-60°)	8066.0	21.2	B4/8500		
BH (60°-80°)	880.7	2.3	B2/1000		G2/1000
BVH (80°-90°)	78.8	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-G2

Type I Short





REPORT NUMBER: P637881
 CATALOG NUMBER: IFLD-S-SA6D-735-U-66-VI

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	45430.7	45430.7	45430.7	45430.7	45430.7	45430.7	45430.7	45430.7	45430.7	45430.7
2.5°	45435.6	45250.0	44986.2	44961.8	45098.6	45396.5	45206.0	45215.8	45098.6	45298.8
5°	44722.5	44546.6	44365.9	44126.6	44326.8	44453.8	44356.1	44248.7	44097.2	44292.6
7.5°	43374.3	43276.6	43008.0	42900.5	43022.7	43164.3	42954.3	42925.0	42714.9	42968.9
10°	41313.1	41274.0	41010.2	40946.7	41054.2	41269.1	41176.3	41156.8	41024.9	41000.5
12.5°	39173.7	39022.3	38695.0	38675.5	38836.6	39159.0	38909.9	38670.6	38743.8	38807.3
15°	33664.0	33502.8	34313.6	35588.4	36257.6	36233.2	36306.5	36018.3	35930.4	35959.7
17.5°	26762.2	26488.6	26781.7	28755.0	31934.8	33781.2	33273.2	32652.9	32320.7	32100.9
20°	23098.8	23113.4	23059.7	23567.7	25550.8	29761.2	29639.1	28442.4	28007.7	27827.0
22.5°	20871.5	20788.4	20671.2	20832.4	21364.8	23836.3	25492.2	24393.2	24241.8	24041.5
25°	18688.1	18688.1	18546.4	18707.6	18859.0	18893.2	20554.0	21003.3	20710.3	20710.3
27.5°	16797.8	16700.1	16636.6	16709.9	16509.6	15547.4	15757.4	18058.0	17857.7	17735.6
30°	14922.1	14892.8	14785.4	14883.1	14140.6	13056.3	12616.7	15239.6	15449.7	15405.7
32.5°	12318.7	12435.9	12914.6	13066.0	11796.1	10921.7	10501.7	12650.8	13491.0	13456.8
35°	8372.0	8469.7	9016.8	10824.0	9778.8	9153.5	9031.4	10062.1	11444.4	11576.3
37.5°	6667.3	6652.7	6809.0	7131.4	7859.2	7707.7	7673.5	7942.2	9334.3	9392.9
40°	5495.1	5475.5	5470.6	5206.9	5026.1	6408.5	6315.7	6154.5	7360.9	7478.2
42.5°	4430.2	4449.8	4464.4	3888.1	3624.3	4943.1	4889.4	4723.3	5773.5	5910.2
45°	3477.8	3472.9	3502.2	2896.5	2823.2	3160.3	3653.6	3521.7	4357.0	4503.5
47.5°	1802.4	1865.9	2261.5	2242.0	2276.2	2242.0	2764.6	2730.4	3277.5	3512.0
50°	1211.4	1230.9	1265.1	1270.0	1792.6	1651.0	1875.6	2124.8	2295.7	2657.2
52.5°	937.8	952.5	864.6	810.8	1099.0	1221.1	1230.9	1470.2	1602.1	1968.5
55°	522.6	586.1	630.1	635.0	605.7	903.6	898.7	1089.2	1191.8	1436.0
57.5°	68.4	83.0	127.0	410.3	405.4	503.1	630.1	791.3	849.9	1050.2
60°	4.9	9.8	14.7	63.5	268.6	293.1	429.8	493.3	591.0	737.6
62.5°	0.0	0.0	4.9	14.7	53.7	171.0	224.7	258.9	346.8	483.6
65°	0.0	0.0	4.9	9.8	19.5	63.5	87.9	141.7	205.1	298.0
67.5°	0.0	0.0	4.9	9.8	14.7	24.4	39.1	63.5	107.5	180.7
70°	0.0	0.0	4.9	9.8	14.7	19.5	29.3	39.1	58.6	97.7
72.5°	0.0	0.0	4.9	4.9	9.8	24.4	24.4	29.3	39.1	53.7
75°	0.0	0.0	4.9	9.8	14.7	24.4	24.4	24.4	29.3	34.2
77.5°	0.0	0.0	4.9	9.8	14.7	24.4	19.5	24.4	24.4	24.4
80°	0.0	0.0	4.9	9.8	14.7	24.4	29.3	24.4	19.5	19.5
82.5°	0.0	0.0	4.9	14.7	14.7	34.2	34.2	34.2	14.7	14.7
85°	0.0	0.0	9.8	14.7	24.4	39.1	39.1	29.3	14.7	9.8
87.5°	0.0	0.0	4.9	9.8	9.8	19.5	29.3	24.4	9.8	4.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P637881
 CATALOG NUMBER: IFLD-S-SA6D-735-U-66-VI

CANDELA DISTRIBUTION (continued):

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°
45430.7	0°	45430.7	45430.7	45430.7	45430.7	45430.7	45430.7	45430.7	45430.7	45430.7
45005.8	2.5°	45367.2	45245.1	45474.7	45504.0	45406.3	45284.2	45000.9	44976.5	44483.1
44009.3	5°	44507.5	44307.3	44453.8	44551.5	44517.3	44385.4	44268.2	44160.7	43716.3
42392.6	7.5°	42905.4	42832.2	42900.5	42973.8	43115.5	42973.8	42925.0	42812.6	42373.0
40800.2	10°	41127.5	40990.7	41249.6	41215.4	41176.3	41137.2	40932.1	40951.6	40433.9
38631.5	12.5°	38944.1	38714.5	38963.6	38992.9	38963.6	38826.9	38597.3	38695.0	38221.2
35700.8	15°	36008.5	35984.1	36164.8	36282.0	36365.1	36218.6	36140.4	36189.2	35905.9
31930.0	17.5°	32403.8	32721.2	33312.3	33512.5	33517.4	33668.8	33624.9	33566.3	33356.2
27753.7	20°	28164.0	28774.6	29683.1	30616.0	30884.7	30757.7	30699.1	30806.5	30493.9
23831.5	22.5°	24251.5	24774.2	25829.2	27192.0	27978.4	28056.6	28041.9	27949.1	27827.0
20690.7	25°	20930.1	21394.1	22405.2	23650.7	25160.0	25384.7	25394.5	25365.2	25257.7
17843.1	27.5°	18126.4	18688.1	19244.9	20358.6	21965.6	22893.6	22776.4	22742.2	22703.1
15439.9	30°	15586.4	16294.7	16817.3	17510.9	18951.9	20207.2	20329.3	20270.7	20177.9
13451.9	32.5°	13574.0	13994.1	14658.4	15127.3	16162.8	17584.2	18053.1	18009.1	17926.1
11659.3	35°	11825.4	11991.4	12514.1	13036.7	13725.4	15102.9	15796.5	15698.8	15684.1
9500.3	37.5°	9739.7	10296.5	10584.7	11112.2	11595.8	12665.5	13622.9	13578.9	13583.8
7639.4	40°	7864.0	8186.4	8757.9	9202.4	9646.9	10428.4	11493.2	11522.5	11512.8
5915.1	42.5°	6037.2	6349.8	6950.6	7434.2	7829.8	8313.4	9329.4	9363.6	9407.5
4606.1	45°	4713.5	4913.8	5353.4	5856.5	6276.6	6569.6	7341.4	7561.2	7566.1
3570.6	47.5°	3658.5	3888.1	4200.7	4684.2	5094.5	5304.6	5866.3	6164.2	6149.6
2740.2	50°	2872.1	3082.1	3336.1	3717.1	4161.6	4327.7	4742.8	5035.9	5021.3
2066.1	52.5°	2198.0	2466.7	2691.4	2984.4	3419.1	3560.8	3858.8	4195.8	4146.9
1514.2	55°	1665.6	1939.1	2149.2	2393.4	2789.0	2969.8	3174.9	3443.6	3453.3
1172.3	57.5°	1255.3	1538.6	1729.1	1978.2	2276.2	2476.4	2632.7	2920.9	2916.0
801.1	60°	898.7	1143.0	1372.5	1631.4	1861.0	2090.6	2198.0	2471.6	2481.3
566.6	62.5°	649.6	879.2	1099.0	1323.7	1528.8	1753.5	1851.2	2066.1	2095.4
371.2	65°	454.3	615.4	869.4	1040.4	1270.0	1436.0	1563.0	1748.7	1782.8
219.8	67.5°	293.1	444.5	688.7	840.1	1050.2	1191.8	1323.7	1470.2	1514.2
141.7	70°	175.8	337.0	512.9	674.1	864.6	991.6	1118.5	1245.5	1270.0
68.4	72.5°	112.3	234.5	371.2	547.1	693.6	830.4	942.7	1035.5	962.2
44.0	75°	63.5	161.2	293.1	429.8	561.7	693.6	786.4	835.2	669.2
29.3	77.5°	39.1	117.2	239.3	346.8	434.7	556.8	615.4	644.8	478.7
19.5	80°	24.4	87.9	200.3	283.3	283.3	410.3	478.7	503.1	346.8
14.7	82.5°	19.5	63.5	156.3	214.9	190.5	307.7	376.1	381.0	244.2
9.8	85°	14.7	48.8	97.7	141.7	131.9	214.9	219.8	244.2	161.2
9.8	87.5°	9.8	29.3	58.6	83.0	73.3	102.6	117.2	131.9	87.9
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
45430.7
44097.2
43359.7
42280.2
40258.0
38084.4
35564.0
33043.6
30269.2
27592.5
24896.3
22473.6
20060.6
17706.3
15522.9
13427.5
11341.8
9261.0
7439.1
6095.9
5021.3
4151.8
3453.3
2906.3
2456.9
2085.7
1773.1
1509.3
1250.4
893.9
635.0
449.4
322.4
224.7
146.5
78.2
0.0

(END OF REPORT)