

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: EPHESUS

Report Number: P638585

Luminaire Tested: **EPH-VN-07-E-750-U-33-VI**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-08
Report Number: P638585
Test Lab: INNOVATION CENTER(G2)
Issue Date: 11/2/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHESUS
Catalog Number: EPH-VN-07-E-750-U-33-VI
Description: EPHESUS LUMAVISION FLOOD – Middle Tier Light Square Luminaire w/
Nema 3 distribution lens and Visor
Light Source: (112) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 57425.5 lumens
Efficiency: N/A
Efficacy: 107.8 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

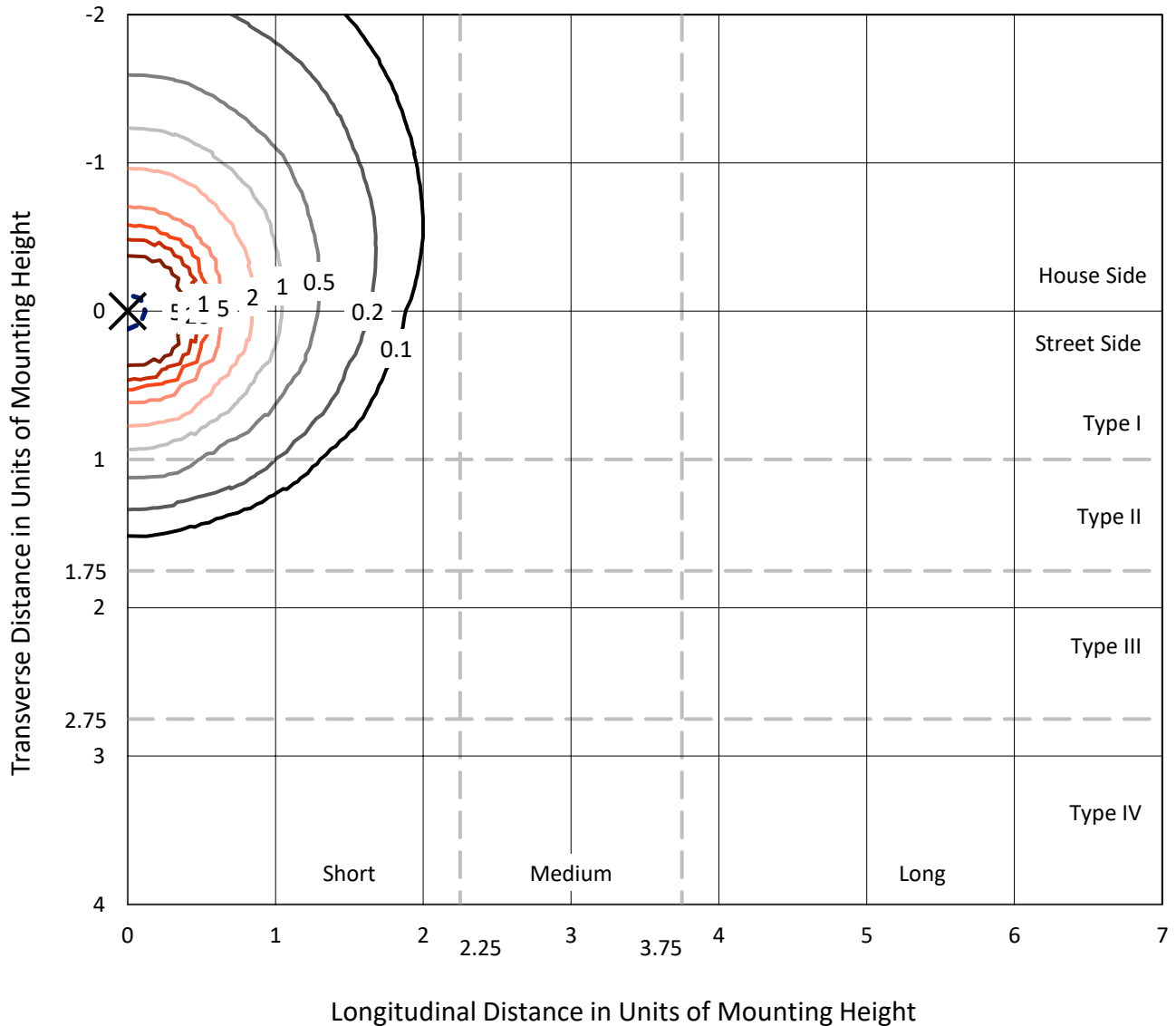
Input Watts (W): 532.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P638585
 CATALOG NUMBER: EPH-VN-07-E-750-U-33-VI

Iso-Footcandle Lines of Horizontal Illumination

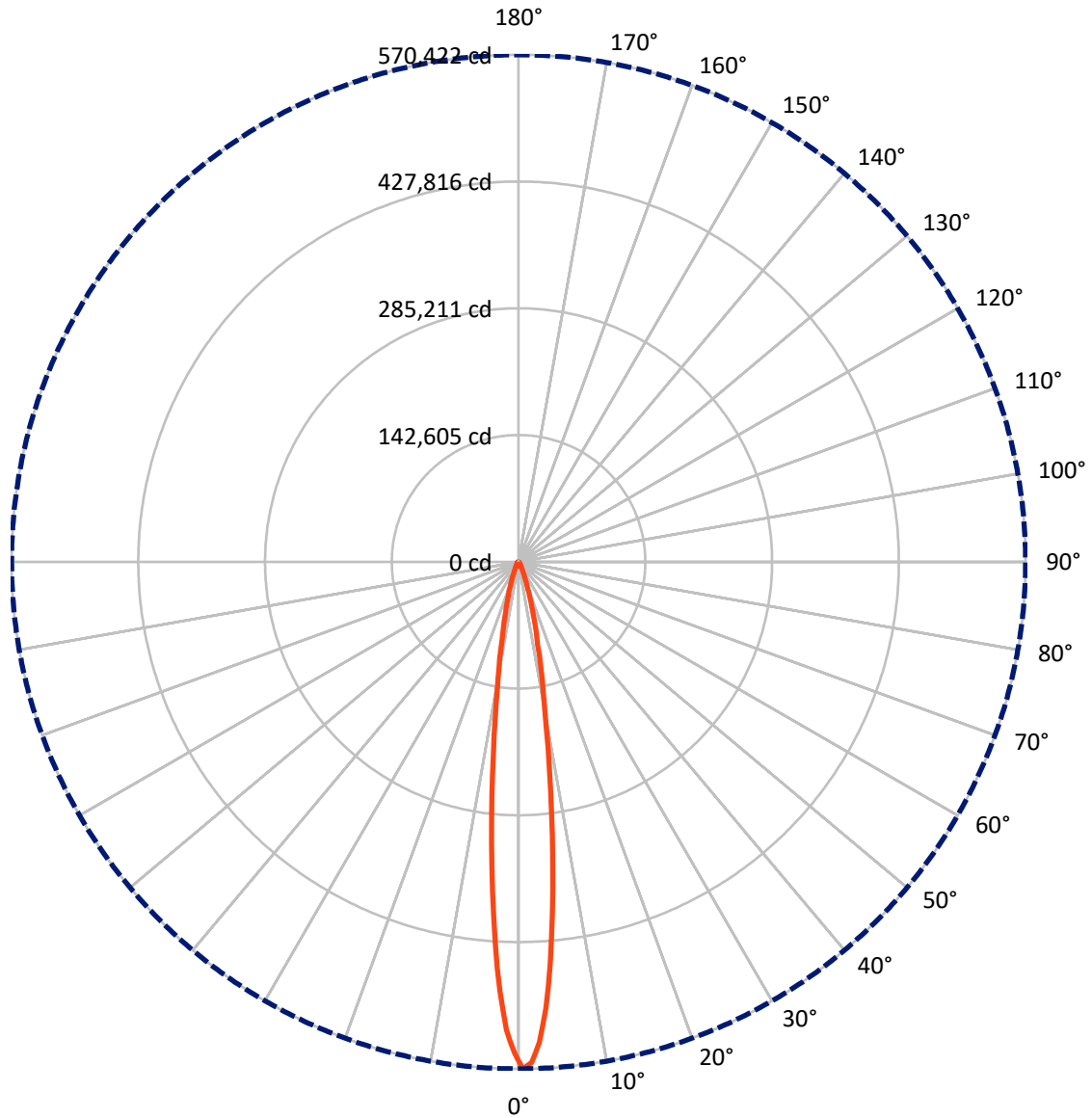
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 1426.1 fc
 Type V - Short - N/A

REPORT NUMBER: P638585
CATALOG NUMBER: EPH-VN-07-E-750-U-33-VI

Luminous Intensity Polar Plot



— Vertical Plane Through 0-Deg Lateral - - - Horizontal Cone Through 0-Deg Vertical

REPORT NUMBER: P638585
 CATALOG NUMBER: EPH-VN-07-E-750-U-33-VI

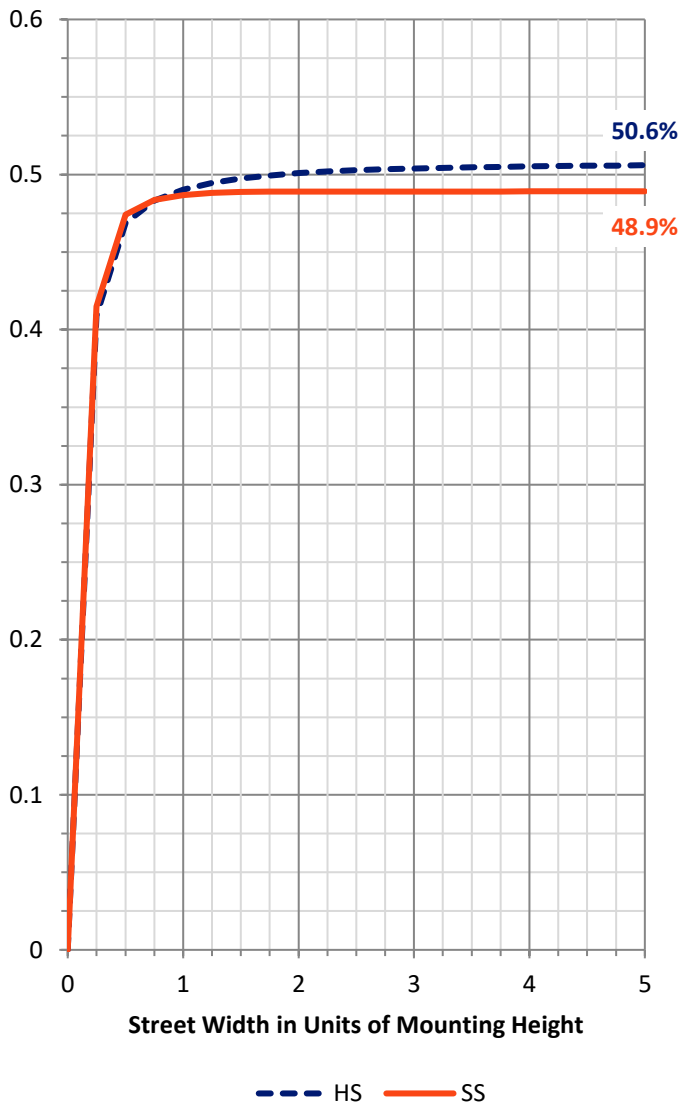
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	29412.3	0.0	29412.3
	% Fixture	51.2	0.0	51.2
Street Side	Lumens	28013.2	0.0	28013.2
	% Fixture	48.8	0.0	48.8
Total	Lumens	57425.5	0.0	57425.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	28990.1	50.5
10°-20°	18559.4	32.3
20°-30°	5578.6	9.7
30°-40°	1816.4	3.2
40°-50°	1056.8	1.8
50°-60°	702.0	1.2
60°-70°	422.5	0.7
70°-80°	217.2	0.4
80°-90°	82.5	0.1
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°	57425.5	100.0
0°-180°	57425.5	100.0

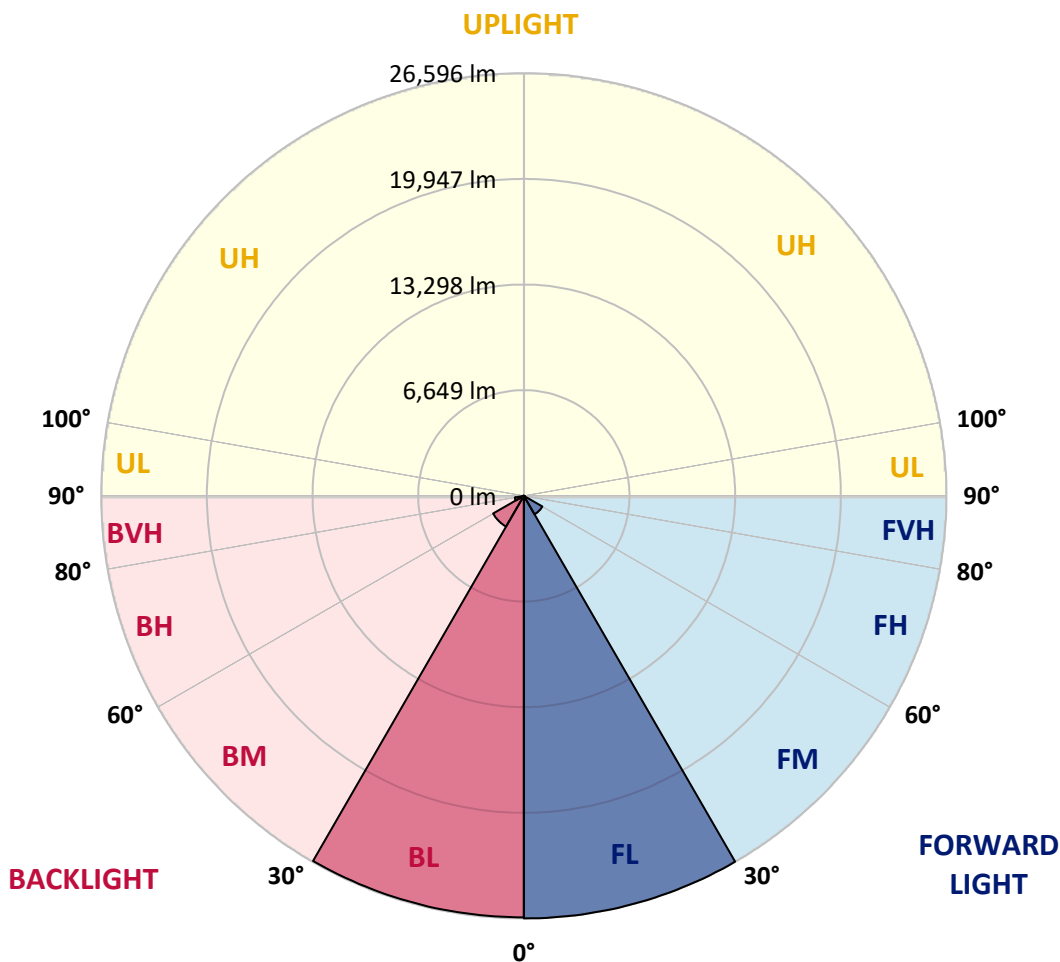


REPORT NUMBER: P638585
 CATALOG NUMBER: EPH-VN-07-E-750-U-33-VI

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	26595.5	46.3			
FM (30°-60°)	1342.1	2.3			
FH (60°-80°)	63.2	0.1			G0/660
FVH (80°-90°)	12.4	0.0			G1/100
BL (0°-30°)	26532.5	46.2	B5		
BM (30°-60°)	2233.2	3.9	B2/2500		
BH (60°-80°)	576.6	1.0	B2/1000		G0/660
BVH (80°-90°)	70.1	0.1			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 V Short





REPORT NUMBER: P638585
 CATALOG NUMBER: EPH-VN-07-E-750-U-33-VI

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	570421.7	570421.7	570421.7	570421.7	570421.7	570421.7	570421.7	570421.7	570421.7	570421.7
1°	563591.7	561871.7	557431.0	560589.5	563366.6	562559.7	562503.4	562203.2	561784.2	565074.0
2°	541062.8	539949.5	533382.2	536090.4	540037.1	537160.0	538961.3	537378.9	537410.1	541338.0
3°	503085.2	503691.8	493215.5	498137.8	503623.0	496649.2	498813.3	502878.8	498619.4	497337.2
4°	453724.2	448457.9	442734.9	447738.6	449158.4	445099.2	449089.6	454068.2	448151.4	448414.1
5°	397370.7	393480.3	386706.6	389796.4	386275.1	387557.3	393536.6	395588.1	391460.1	386262.6
6°	339428.5	336663.9	328195.3	332648.5	331397.6	330672.1	338221.3	331966.8	334218.4	331072.4
7°	282336.9	277170.6	273011.3	277276.9	277552.1	275369.3	285170.2	284031.9	279935.1	278984.4
8°	233920.4	228766.6	225245.3	228422.6	230499.1	227071.6	231681.2	234708.4	231506.1	231793.8
9°	188668.7	187761.7	182864.4	187017.5	189275.4	185603.9	190707.6	191802.2	188806.3	190263.6
10°	154912.8	153855.8	149946.7	151629.2	155369.4	150991.2	155888.5	156245.0	153855.8	154537.6
12.5°	95732.2	95306.9	95200.6	95444.5	95394.5	96170.0	97421.0	95994.9	95807.3	93449.3
15°	61876.3	62508.0	61857.6	63108.5	63289.8	64021.6	63258.6	62107.7	59912.4	58824.1
17.5°	38615.6	39422.5	40535.8	42368.4	44200.9	44413.6	43400.4	42049.4	40986.1	39822.8
20°	22216.2	22610.2	22441.3	24636.7	29377.6	30666.1	29358.9	27939.1	26656.9	25481.1
22.5°	13803.8	13659.9	13922.6	14660.7	16205.6	20189.7	19120.2	17700.4	16768.5	15799.0
25°	8462.4	8618.8	8518.7	8925.3	9619.5	11308.2	11552.2	10939.2	10463.9	9963.5
27.5°	5447.7	5447.7	5491.5	5716.7	6192.0	6135.7	7436.7	6961.3	6704.9	6461.0
30°	3784.0	3796.5	3796.5	3927.9	4034.2	3846.6	4184.3	4797.2	4678.4	4490.8
32.5°	2808.3	2845.8	2877.1	2945.9	2858.3	2658.2	2739.5	3452.5	3383.7	3314.9
35°	2139.1	2170.3	2245.4	2282.9	2157.8	2032.7	1957.7	2539.3	2570.6	2551.9
37.5°	1557.4	1576.1	1713.7	1857.6	1713.7	1601.2	1557.4	1951.4	2101.5	2082.8
40°	1194.6	1200.9	1225.9	1388.5	1388.5	1300.9	1313.5	1457.3	1720.0	1720.0
42.5°	1025.7	1025.7	1050.8	1025.7	1032.0	1125.8	1157.1	1175.9	1457.3	1457.3
45°	888.1	888.1	900.7	838.1	775.6	969.5	994.5	1000.7	1225.9	1257.2
47.5°	744.3	744.3	769.3	688.0	656.7	769.3	838.1	856.9	1057.0	1082.0
50°	550.4	556.7	631.7	562.9	581.7	594.2	725.5	738.0	894.4	950.7
52.5°	369.0	369.0	381.5	437.8	506.6	487.9	587.9	631.7	713.0	788.1
55°	300.2	300.2	294.0	281.5	375.3	406.5	431.6	525.4	581.7	675.5
57.5°	206.4	218.9	200.1	231.4	243.9	306.5	325.2	412.8	444.1	569.2
60°	25.0	31.3	43.8	168.9	162.6	206.4	243.9	325.2	362.8	437.8
62.5°	6.3	6.3	12.5	31.3	112.6	137.6	193.9	225.2	262.7	337.7
65°	0.0	0.0	6.3	12.5	25.0	75.1	100.1	131.3	187.6	237.7
67.5°	0.0	0.0	6.3	12.5	12.5	31.3	50.0	81.3	100.1	175.1
70°	0.0	0.0	6.3	12.5	12.5	25.0	31.3	37.5	68.8	93.8
72.5°	0.0	0.0	6.3	12.5	18.8	25.0	31.3	31.3	31.3	62.5
75°	0.0	0.0	6.3	12.5	18.8	25.0	31.3	31.3	25.0	25.0
77.5°	0.0	0.0	6.3	12.5	25.0	31.3	37.5	31.3	18.8	18.8
80°	0.0	0.0	6.3	18.8	31.3	43.8	50.0	37.5	18.8	12.5
82.5°	0.0	0.0	12.5	25.0	37.5	50.0	68.8	56.3	25.0	12.5
85°	0.0	0.0	6.3	18.8	37.5	50.0	100.1	68.8	31.3	6.3
87.5°	0.0	0.0	0.0	6.3	6.3	12.5	37.5	25.0	12.5	6.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P638585

CATALOG NUMBER: EPH-VN-07-E-750-U-33-VI

CANDELA DISTRIBUTION (continued):

90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
570421.7	0°	570421.7	570421.7	570421.7	570421.7	570421.7	570421.7	570421.7	570421.7
561277.5	1°	565199.1	565593.2	564304.7	566299.9	565599.4	561496.4	560139.2	558531.8
539030.1	2°	537378.9	539386.6	539486.7	541700.8	541669.5	536884.8	535402.4	538135.7
499939.1	3°	498425.5	500764.7	498656.9	502591.0	501408.9	495604.7	494097.4	497199.6
450490.6	4°	449145.9	448701.8	447976.3	445737.1	448495.4	444536.3	441552.8	445762.2
393155.1	5°	392367.0	391378.8	389965.3	389302.3	391353.8	388820.7	382685.0	388833.2
336764.0	6°	337176.8	332923.7	332717.3	332348.3	332554.7	325462.0	325887.3	330465.7
275713.3	7°	278627.9	279409.7	277814.8	280372.9	278421.5	273618.0	271766.7	276588.9
233057.2	8°	231431.1	230442.8	229223.2	233044.7	229661.0	226508.7	224350.9	228159.9
190501.2	9°	190144.7	188437.2	187198.8	187004.9	187530.3	181613.5	182814.4	185697.7
154912.8	10°	154969.1	152167.1	152848.8	153030.2	152454.8	148577.0	148614.5	149609.0
95012.9	12.5°	94675.2	93299.2	93643.2	93830.8	95000.4	93636.9	91710.5	90322.0
59906.1	15°	59505.8	58517.6	60537.8	61895.1	61619.9	60406.5	59499.6	58242.4
39822.8	17.5°	39453.7	40748.4	40754.7	41993.1	42118.2	40904.8	40204.3	39072.2
25900.1	20°	25806.3	26344.2	27463.8	28339.4	28846.0	27920.3	27082.2	26306.7
16149.3	22.5°	16149.3	17087.4	17788.0	18926.3	19389.1	18713.6	18119.4	17487.7
10082.3	25°	9913.5	10582.7	11164.4	12152.6	12784.3	12459.1	11914.9	11470.9
6511.0	27.5°	6611.1	6892.5	7180.2	7862.0	8518.7	8337.3	8118.4	7849.5
4590.8	30°	4659.6	4684.7	4991.1	5372.7	5810.5	5923.1	5823.0	5685.4
3371.2	32.5°	3433.8	3533.8	3677.7	3915.4	4209.3	4478.3	4428.2	4365.7
2576.9	35°	2651.9	2802.0	2920.9	3102.3	3258.6	3515.1	3558.8	3540.1
2120.3	37.5°	2164.1	2295.4	2414.3	2520.6	2651.9	2827.1	2964.7	2970.9
1751.3	40°	1795.1	1913.9	2070.3	2151.6	2245.4	2376.7	2545.6	2558.1
1482.3	42.5°	1513.6	1626.2	1782.5	1882.6	1951.4	2076.5	2245.4	2270.4
1269.7	45°	1300.9	1369.7	1532.4	1651.2	1720.0	1801.3	1982.7	2007.7
1094.5	47.5°	1132.1	1200.9	1300.9	1469.8	1532.4	1607.4	1751.3	1795.1
969.5	50°	994.5	1063.3	1150.8	1300.9	1394.8	1457.3	1576.1	1638.7
844.4	52.5°	881.9	950.7	1044.5	1163.3	1269.7	1326.0	1438.5	1519.9
688.0	55°	738.0	856.9	925.7	1032.0	1175.9	1225.9	1313.5	1419.8
600.4	57.5°	644.2	744.3	844.4	931.9	1075.8	1138.3	1225.9	1326.0
475.3	60°	544.1	638.0	756.8	831.9	969.5	1050.8	1144.6	1238.4
362.8	62.5°	431.6	556.7	638.0	744.3	875.6	982.0	1057.0	1150.8
281.5	65°	319.0	456.6	550.4	663.0	788.1	900.7	963.2	1063.3
200.1	67.5°	231.4	356.5	469.1	575.4	694.3	806.8	869.4	956.9
125.1	70°	181.4	262.7	387.8	481.6	606.7	700.5	769.3	825.6
81.3	72.5°	106.3	200.1	312.7	419.1	531.6	594.2	644.2	694.3
37.5	75°	68.8	156.4	256.4	350.3	431.6	487.9	531.6	575.4
18.8	77.5°	43.8	112.6	206.4	294.0	331.5	400.3	437.8	462.8
12.5	80°	25.0	87.6	181.4	237.7	268.9	312.7	350.3	381.5
12.5	82.5°	18.8	75.1	150.1	200.1	200.1	250.2	268.9	268.9
6.3	85°	12.5	62.5	118.8	187.6	150.1	187.6	175.1	175.1
6.3	87.5°	12.5	43.8	56.3	81.3	68.8	81.3	81.3	93.8
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
570421.7
552164.6
526558.5
483420.8
430526.1
372633.9
317193.5
263473.1
217283.2
176691.2
142841.5
89477.7
57598.2
38790.8
26037.7
17150.0
11214.4
7693.1
5591.6
4315.6
3477.5
2927.1
2539.3
2251.6
2001.5
1801.3
1644.9
1519.9
1426.0
1332.2
1263.4
1194.6
1082.0
963.2
844.4
706.8
575.4
450.3
344.0
250.2
168.9
93.8
0.0

(END OF REPORT)