

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: P638693

Luminaire Tested: **EPH-VN-07-E-750-U-55-VI**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-08
Report Number: P638693
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-55-VI
Description: EPHESUS LUMAVISION FLOOD – Middle Tier Light Square Luminaire w/
Nema 5 distribution lens and Visor
Light Source: (112) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 54241.5 lumens
Efficiency: N/A
Efficacy: 101.8 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G2

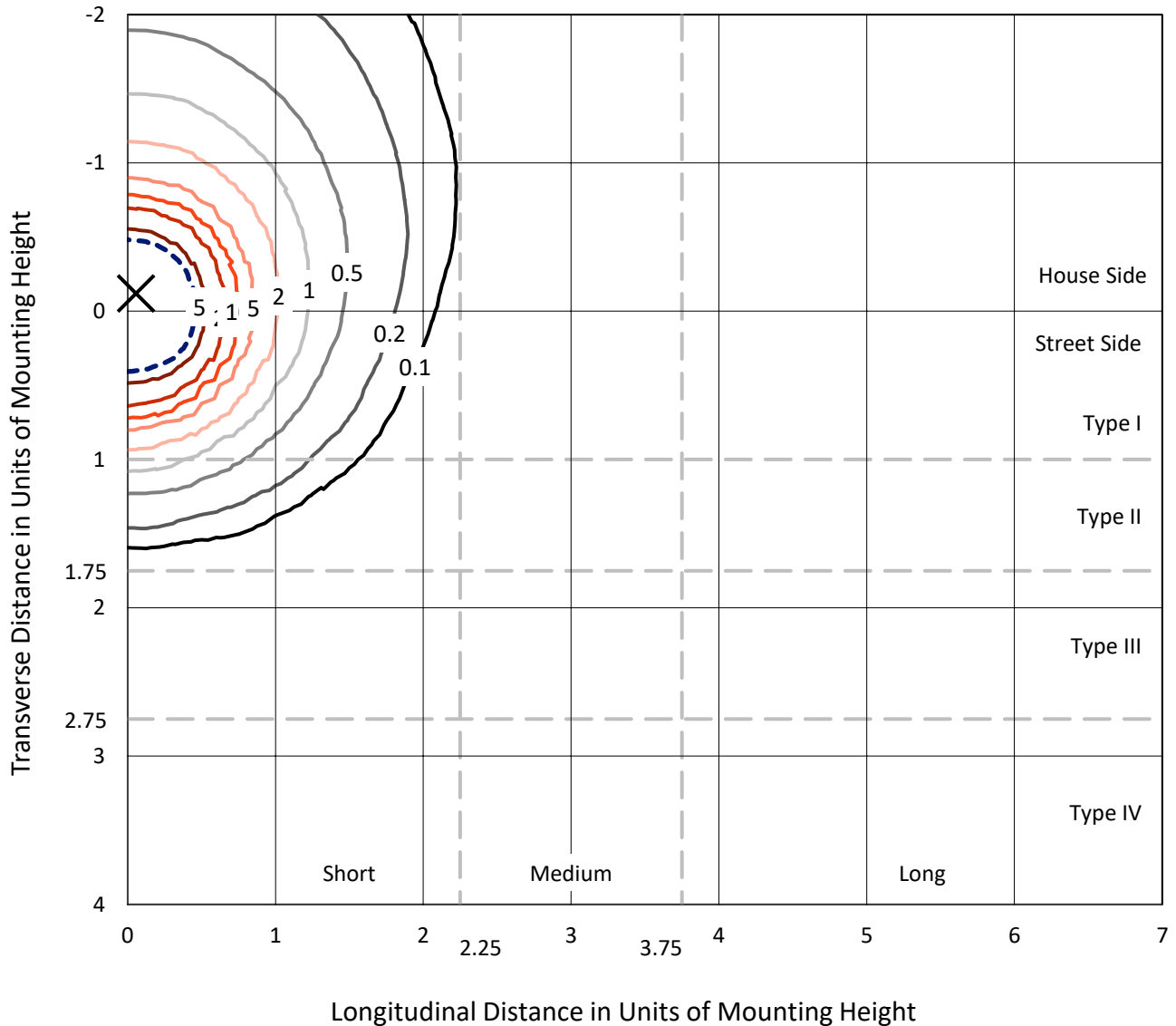
Input Watts (W): 532.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P638693
 CATALOG NUMBER: EPH-VN-07-E-750-U-55-VI

Iso-Footcandle Lines of Horizontal Illumination

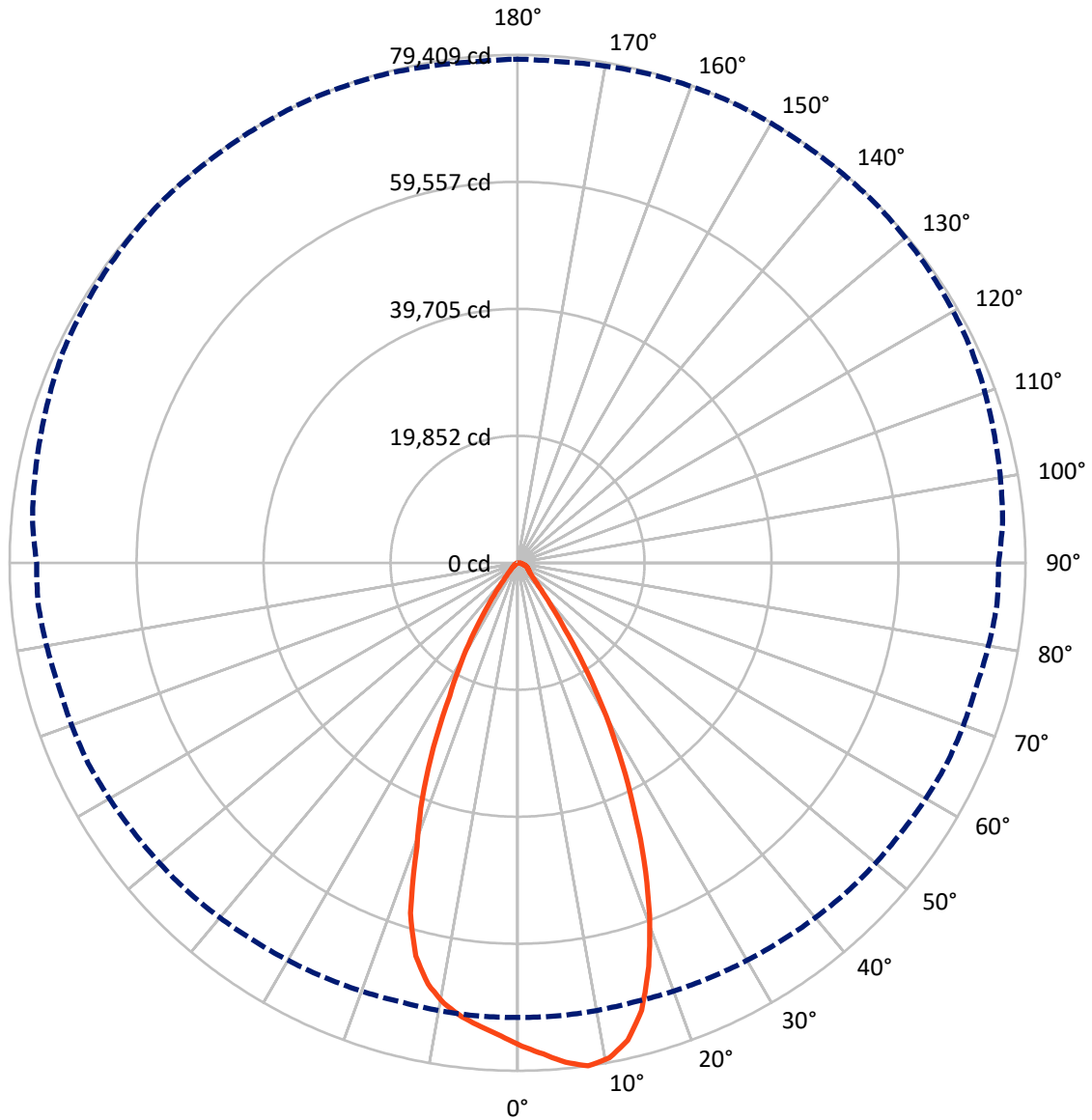
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 192 fc
 Type I - Short - N/A

REPORT NUMBER: P638693
CATALOG NUMBER: EPH-VN-07-E-750-U-55-VI

Luminous Intensity Polar Plot



— Vertical Plane Through 155-Deg Lateral - - - Horizontal Cone Through 7.5-Deg Vertical

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 CATALOG NUMBER: EPH-VN-07-E-750-U-55-VI

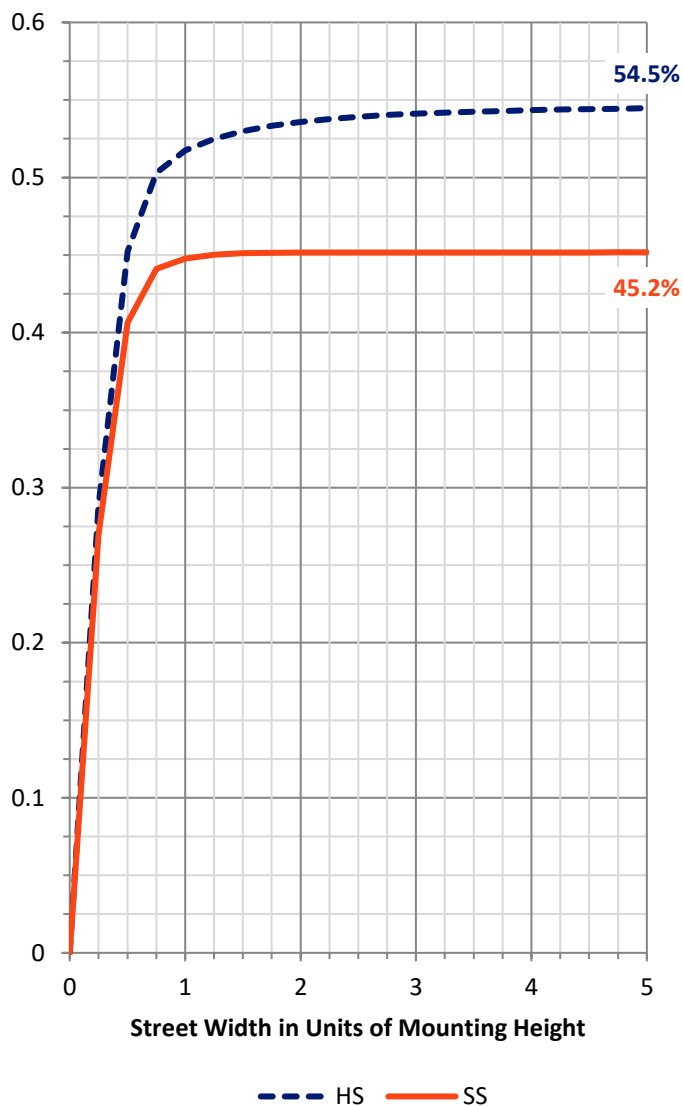
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	29943.3	0.0	29943.3
	% Fixture	55.2	0.0	55.2
Street Side	Lumens	24298.2	0.0	24298.2
	% Fixture	44.8	0.0	44.8
Total	Lumens	54241.5	0.0	54241.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	7205.4	13.3
10°-20°	18683.6	34.4
20°-30°	17119.4	31.6
30°-40°	6916.2	12.8
40°-50°	2028.9	3.7
50°-60°	1134.4	2.1
60°-70°	689.0	1.3
70°-80°	350.1	0.6
80°-90°	114.5	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°	54241.5	100.0
0°-180°	54241.5	100.0



REPORT NUMBER: P638693

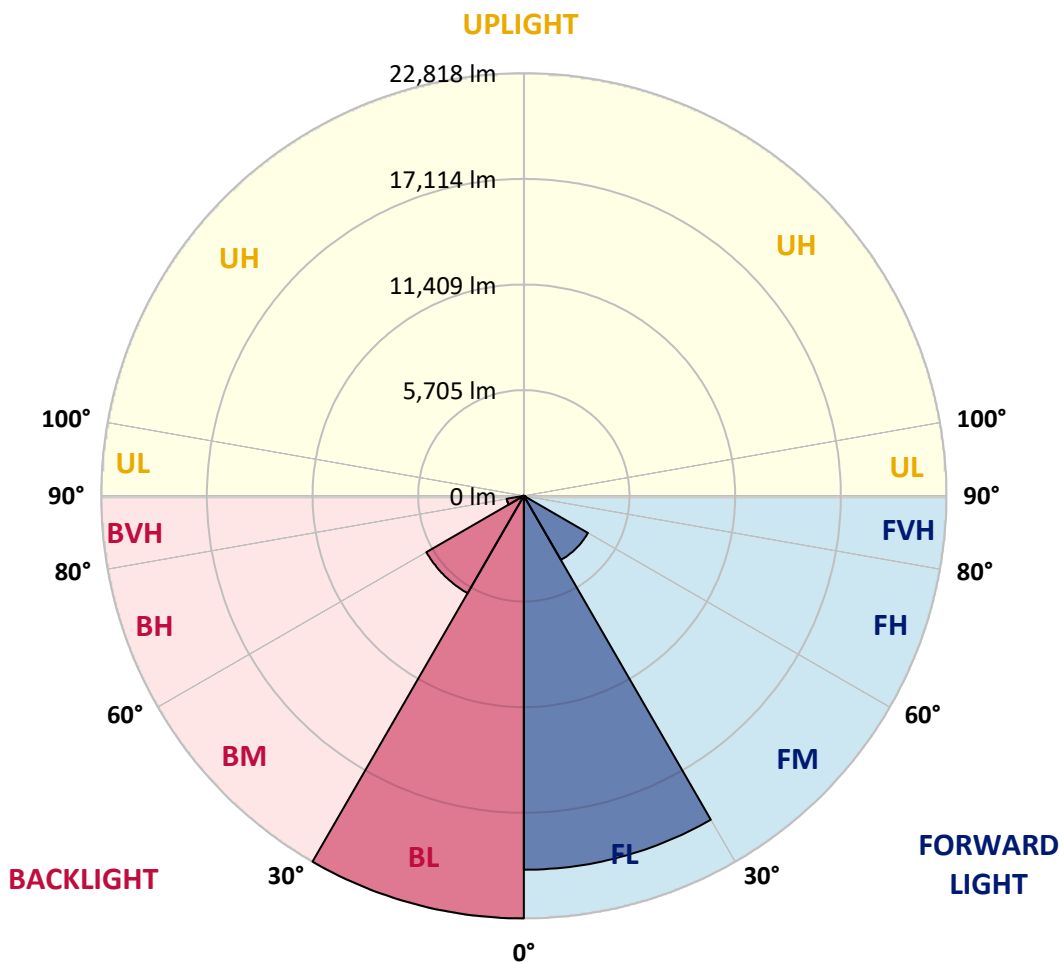
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	20190.1	37.2			
FM (30°-60°)	4001.3	7.4			
FH (60°-80°)	96.9	0.2			G0/660
FVH (80°-90°)	9.9	0.0			G0/10
BL (0°-30°)	22818.3	42.1	B5		
BM (30°-60°)	6078.2	11.2	B4/8500		
BH (60°-80°)	942.2	1.7	B2/1000		G2/1000
BVH (80°-90°)	104.6	0.2			G2/225
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: P638693
 CATALOG NUMBER: EPH-VN-07-E-750-U-55-VI

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	75562.6	75562.6	75562.6	75562.6	75562.6	75562.6	75562.6	75562.6	75562.6	75562.6
2.5°	73923.9	74174.1	73673.7	74005.2	74261.6	74874.6	74924.6	75137.3	75212.4	75769.0
5°	72522.8	72716.7	72310.2	72754.3	73117.0	73661.2	74080.3	74668.2	74993.4	75650.2
7.5°	71065.5	71109.3	71028.0	71497.1	72041.2	72791.8	73310.9	74080.3	74280.4	75218.6
10°	69301.7	68982.7	69139.1	69827.1	70640.2	71791.1	72147.6	72916.9	73273.4	74230.4
12.5°	66487.1	66649.7	66455.8	67331.5	68007.0	69314.2	69689.5	70465.1	71146.8	71991.2
15°	62521.6	62427.8	62821.9	63503.6	64235.4	65273.7	65880.4	66724.8	67243.9	68119.6
17.5°	53608.7	53927.7	55553.9	57261.5	58762.6	59976.0	60701.5	61402.1	61777.3	62728.0
20°	46297.0	45896.7	46115.6	47078.9	51350.8	53208.4	53971.5	54140.4	54296.8	55047.3
22.5°	38122.2	37990.8	38722.6	39804.7	40817.9	45102.4	46140.7	45746.6	46071.9	46778.6
25°	28308.6	28971.6	29622.1	31698.6	33012.1	35113.7	37083.9	37259.0	37377.9	37822.0
27.5°	23042.2	22810.8	22798.3	23379.9	25318.9	27070.2	28746.4	29134.2	29065.4	29490.7
30°	18113.5	18038.5	17775.8	17913.4	17719.5	19276.9	20065.0	21659.9	21572.3	21584.9
32.5°	13066.0	12784.5	12678.2	12884.6	12684.5	12540.6	13228.6	15030.0	14998.7	15123.8
35°	7905.9	7868.4	7955.9	8137.3	7737.0	7724.5	7868.4	9563.4	9769.8	9969.9
37.5°	4365.8	4328.2	4397.0	5066.3	4934.9	4816.1	4853.6	5748.0	6342.2	6492.3
40°	2877.1	2870.9	2920.9	3039.8	3264.9	3221.2	3239.9	3640.2	4203.1	4334.5
42.5°	1926.4	1932.7	1964.0	2101.6	2132.8	2358.0	2320.5	2414.3	2939.7	3052.3
45°	1538.6	1532.4	1551.2	1488.6	1526.1	1757.6	1782.6	1788.8	2239.2	2308.0
47.5°	1213.4	1213.4	1232.2	1150.9	1132.1	1276.0	1407.3	1426.1	1788.8	1882.7
50°	850.6	850.6	944.5	906.9	950.7	994.5	1138.3	1157.1	1463.6	1563.7
52.5°	625.5	638.0	650.5	656.7	800.6	794.3	919.4	1007.0	1107.1	1282.2
55°	475.4	487.9	456.6	487.9	594.2	663.0	688.0	813.1	881.9	1075.8
57.5°	312.7	344.0	319.0	375.3	400.3	512.9	550.4	669.2	713.0	881.9
60°	43.8	50.0	81.3	262.7	281.5	337.8	425.3	531.6	575.4	719.3
62.5°	6.3	6.3	18.8	43.8	187.6	225.2	319.0	369.0	425.3	537.9
65°	0.0	0.0	6.3	12.5	37.5	131.3	162.6	200.1	294.0	387.8
67.5°	0.0	0.0	6.3	12.5	18.8	43.8	68.8	131.3	168.9	269.0
70°	0.0	0.0	6.3	12.5	18.8	25.0	37.5	50.0	100.1	156.4
72.5°	0.0	0.0	6.3	12.5	18.8	25.0	31.3	37.5	43.8	100.1
75°	0.0	0.0	6.3	12.5	18.8	31.3	37.5	37.5	37.5	43.8
77.5°	0.0	0.0	6.3	12.5	25.0	37.5	43.8	37.5	31.3	31.3
80°	0.0	0.0	6.3	18.8	31.3	43.8	50.0	37.5	25.0	18.8
82.5°	0.0	0.0	6.3	18.8	31.3	43.8	50.0	43.8	25.0	18.8
85°	0.0	0.0	6.3	18.8	25.0	31.3	50.0	43.8	25.0	12.5
87.5°	0.0	0.0	0.0	6.3	6.3	12.5	25.0	18.8	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: P638693
 CATALOG NUMBER: EPH-VN-07-E-750-U-55-VI

CANDELA DISTRIBUTION (continued):

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°
75562.6	0°	75562.6	75562.6	75562.6	75562.6	75562.6	75562.6	75562.6	75562.6	75562.6
75756.5	2.5°	76319.4	76600.9	77095.0	77232.6	77657.9	77170.1	76901.1	76926.1	76344.4
75568.9	5°	76319.4	76963.7	77826.8	78239.6	78552.3	78527.3	78458.5	78283.4	77858.1
75193.6	7.5°	76119.3	77170.1	78358.5	78908.9	79284.1	79252.9	79409.2	79127.8	78608.6
74524.3	10°	75475.0	76388.2	77851.8	78302.2	78908.9	78921.4	78727.5	78783.8	77858.1
72078.8	12.5°	73448.5	74161.6	75443.8	75956.7	76694.7	76813.5	76600.9	76519.6	75643.9
68069.5	15°	69526.9	69939.7	71228.1	71741.0	72472.8	72372.7	72585.4	72497.8	71728.5
62653.0	17.5°	63791.3	63922.7	65273.7	65705.3	66393.3	66662.2	66343.2	66749.8	66086.8
55178.7	20°	55566.4	56273.2	57793.1	58456.1	58856.4	59338.0	58918.9	59375.5	58600.0
46109.4	22.5°	47222.7	47641.8	49017.8	49974.8	50719.1	50812.9	50656.5	50975.5	49931.0
38115.9	25°	38109.7	38803.9	39892.3	41143.2	41875.0	42325.3	41918.8	42125.2	41956.3
29559.5	27.5°	30059.9	30679.1	31498.5	32430.4	33531.3	34119.2	33794.0	34144.2	33318.6
22041.4	30°	22060.2	22372.9	23298.6	24286.9	25494.0	26207.0	26238.3	26594.8	26107.0
15442.8	32.5°	15555.4	15830.6	16399.7	17056.5	18207.3	19001.7	18876.6	18926.6	18626.4
10063.8	35°	10113.8	10482.8	10889.4	11202.1	11896.4	12772.0	12703.2	12640.7	12434.3
6617.4	37.5°	6761.3	6905.2	7130.3	7411.8	7862.1	8412.5	8593.9	8368.7	8281.2
4465.8	40°	4572.2	4822.3	4972.5	5185.1	5397.8	5860.6	5985.7	5941.9	5854.4
3127.3	42.5°	3246.2	3440.1	3627.7	3834.1	3946.7	4234.4	4478.3	4409.5	4372.0
2376.8	45°	2464.3	2639.5	2858.4	3014.7	3127.3	3296.2	3527.6	3552.7	3496.4
1907.7	47.5°	1976.5	2132.8	2308.0	2501.9	2633.2	2739.5	2939.7	3014.7	2977.2
1607.4	50°	1676.3	1795.1	1964.0	2157.9	2301.7	2395.5	2570.7	2652.0	2627.0
1344.8	52.5°	1426.1	1569.9	1726.3	1888.9	2064.0	2157.9	2320.5	2439.3	2420.6
1113.3	55°	1182.1	1369.8	1532.4	1695.0	1895.2	1989.0	2132.8	2289.2	2257.9
944.5	57.5°	1032.0	1188.4	1357.3	1513.6	1726.3	1851.4	1982.7	2145.4	2139.1
775.6	60°	863.1	1019.5	1207.2	1338.5	1563.7	1738.8	1857.6	2026.5	2039.0
587.9	62.5°	688.0	881.9	1025.8	1207.2	1413.6	1620.0	1732.5	1901.4	1964.0
450.3	65°	512.9	725.5	888.2	1069.5	1263.4	1494.9	1594.9	1763.8	1826.4
325.2	67.5°	381.5	544.2	750.6	906.9	1125.8	1326.0	1444.8	1601.2	1645.0
193.9	70°	287.7	419.1	625.5	763.1	988.2	1150.9	1269.7	1388.5	1444.8
131.3	72.5°	168.9	312.7	494.1	656.7	850.6	988.2	1075.8	1169.6	1207.2
62.5	75°	118.8	237.7	387.8	544.2	688.0	800.6	881.9	963.2	1000.7
31.3	77.5°	62.5	175.1	306.5	437.8	537.9	631.7	713.0	775.6	800.6
25.0	80°	37.5	125.1	250.2	344.0	412.8	494.1	575.4	619.2	613.0
18.8	82.5°	25.0	100.1	181.4	250.2	300.2	362.8	419.1	450.3	450.3
12.5	85°	18.8	68.8	125.1	193.9	200.1	250.2	262.7	294.0	300.2
12.5	87.5°	12.5	43.8	68.8	112.6	106.3	131.3	137.6	156.4	168.9
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
75562.6
75875.3
77995.7
78727.5
77589.1
75443.8
71972.4
65924.2
58537.4
49787.1
41850.0
33531.3
26194.5
18795.3
12252.9
8262.4
5866.9
4340.7
3490.1
2958.5
2620.7
2408.0
2257.9
2132.8
2039.0
1957.7
1820.1
1645.0
1432.3
1194.6
988.2
794.3
606.7
444.1
294.0
162.6
0.0

(END OF REPORT)