

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: P638606

Luminaire Tested: **EPH-VN-03-E-940-U-33-VI**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-08
Report Number: P638606
Test Lab: INNOVATION CENTER(G2)
Issue Date: 11/2/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHESUS
Catalog Number: EPH-VN-03-E-940-U-33-VI
Description: EPHESUS LUMAVISION FLOOD – Middle Tier Light Square Luminaire w/
Nema 3 distribution lens and Visor
Light Source: (48) 4000K CCT, 90 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19383.4 lumens
Efficiency: N/A
Efficacy: 83.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

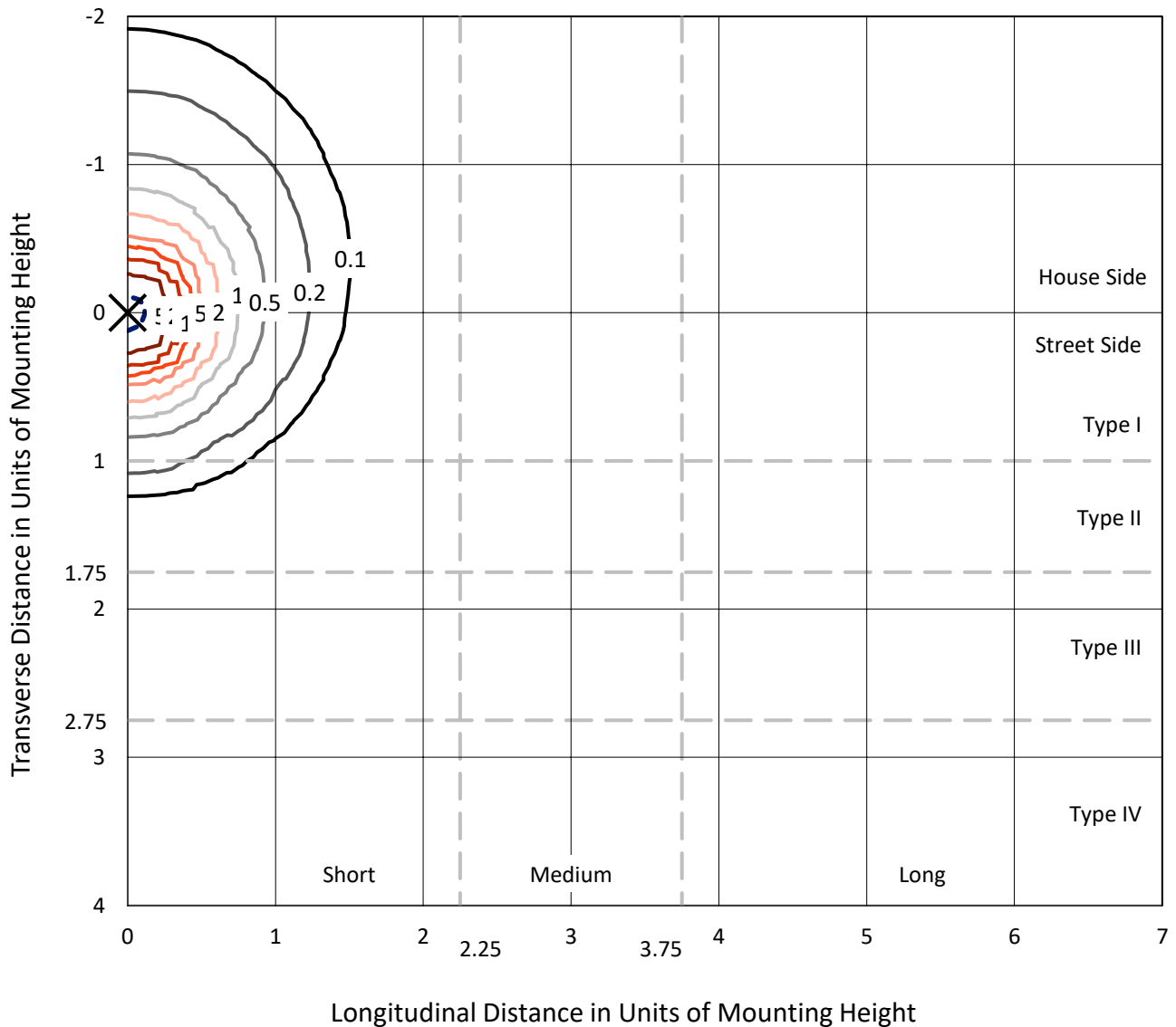
Input Watts (W): 232.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

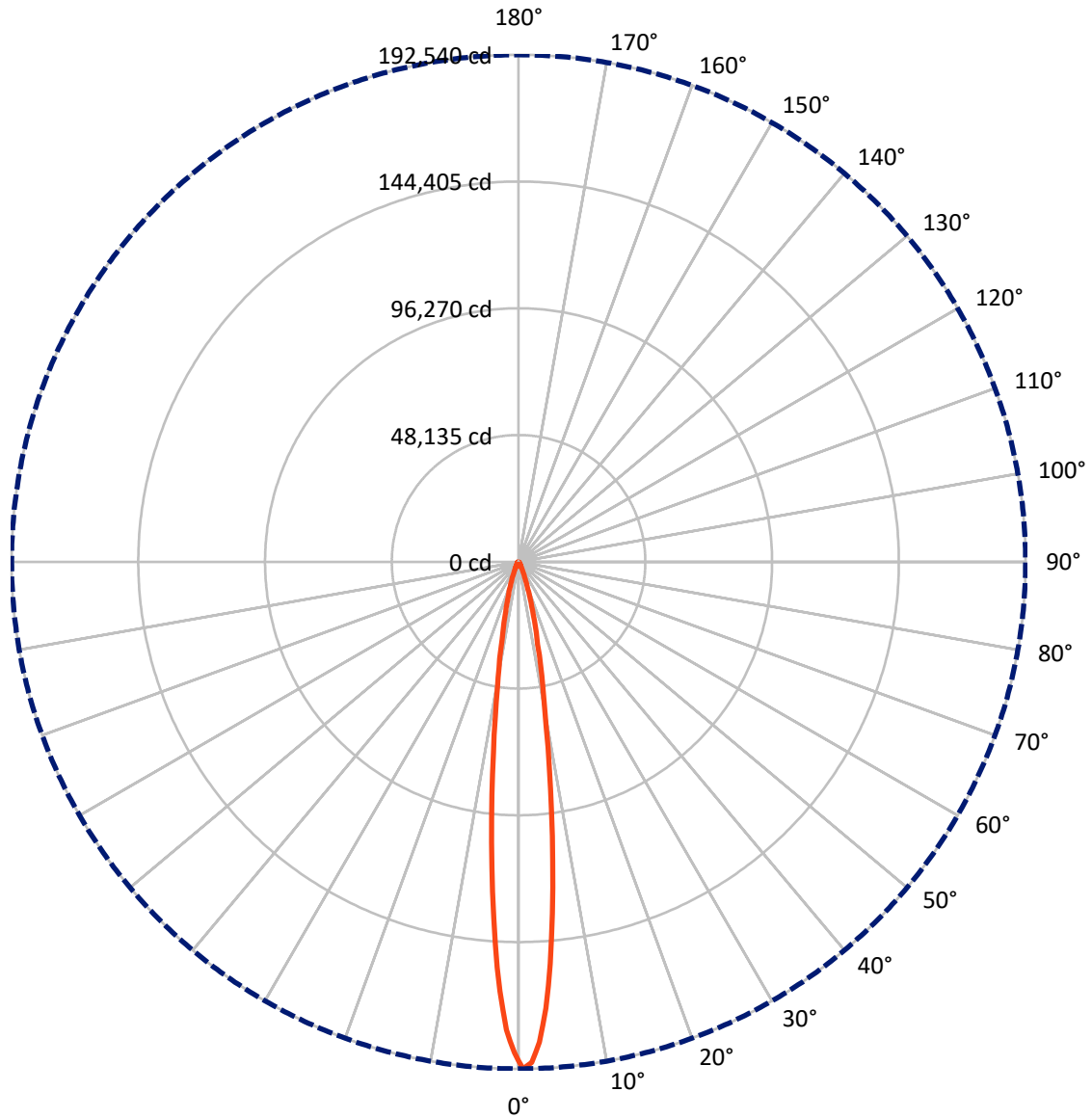
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 481.3 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9927.8	0.0	9927.8
	% Fixture	51.2	0.0	51.2
Street Side	Lumens	9455.6	0.0	9455.6
	% Fixture	48.8	0.0	48.8
Total	Lumens	19383.4	0.0	19383.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	9785.3	50.5
10°-20°	6264.5	32.3
20°-30°	1883.0	9.7
30°-40°	613.1	3.2
40°-50°	356.7	1.8
50°-60°	236.9	1.2
60°-70°	142.6	0.7
70°-80°	73.3	0.4
80°-90°	27.8	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°	19383.4	100.0
0°-180°	19383.4	100.0

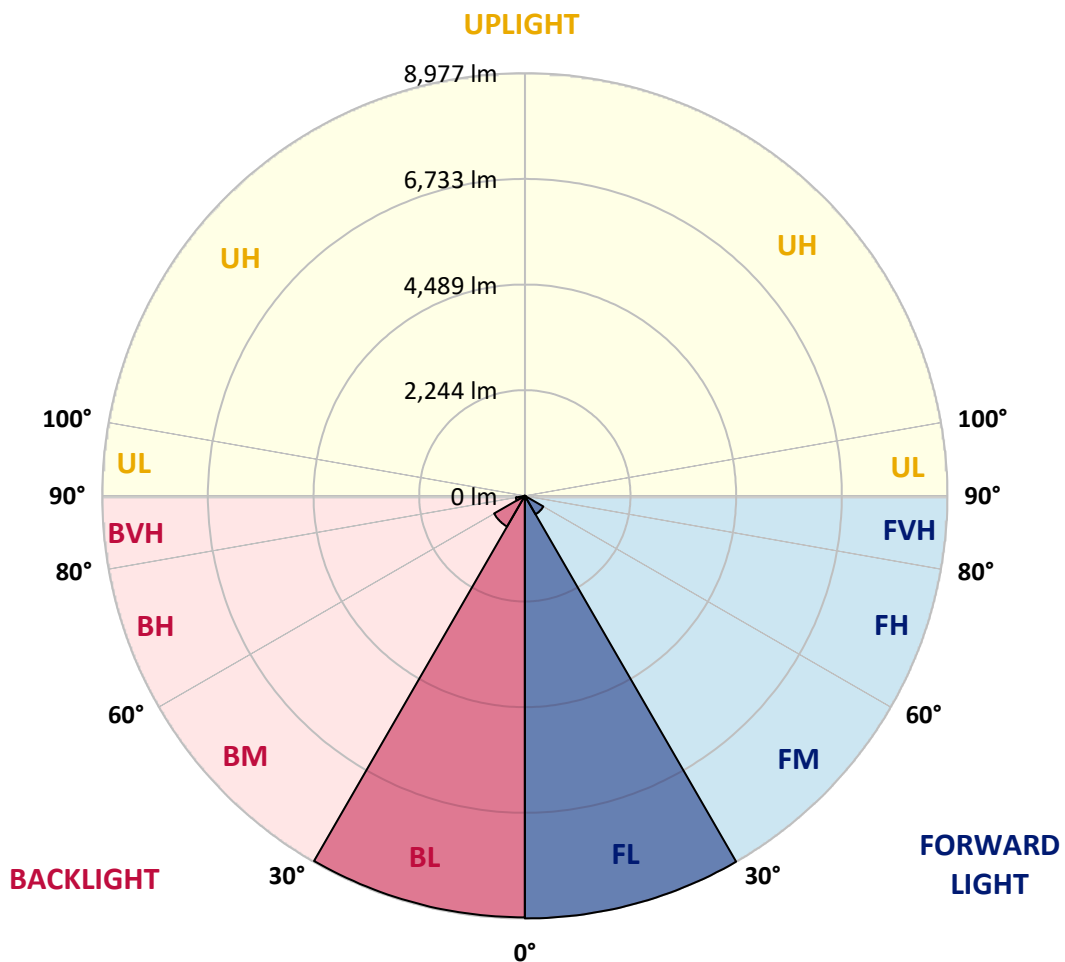


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	8977.0	46.3			
FM (30°-60°)	453.0	2.3			
FH (60°-80°)	21.3	0.1			G0/660
FVH (80°-90°)	4.2	0.0			G0/10
BL (0°-30°)	8955.8	46.2	B5		
BM (30°-60°)	753.8	3.9	B1/1000		
BH (60°-80°)	194.6	1.0	B1/500		G0/660
BVH (80°-90°)	23.6	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	192539.9	192539.9	192539.9	192539.9	192539.9	192539.9	192539.9	192539.9	192539.9	192539.9
1°	190234.5	189653.9	188155.0	189221.1	190158.5	189886.1	189867.1	189765.8	189624.3	190734.8
2°	182630.1	182254.3	180037.6	180951.7	182283.8	181312.7	181920.7	181386.6	181397.2	182723.0
3°	169811.1	170015.9	166479.7	168141.2	169992.7	167638.7	168369.2	169741.4	168303.7	167871.0
4°	153149.8	151372.2	149440.5	151129.5	151608.7	150238.6	151585.5	153266.0	151268.8	151357.5
5°	134128.3	132815.2	130528.8	131571.7	130383.1	130815.9	132834.2	133526.6	132133.2	130378.9
6°	114570.5	113637.4	110778.9	112282.0	111859.8	111614.9	114163.1	112051.9	112811.9	111750.0
7°	95299.8	93556.0	92152.1	93591.9	93684.8	92948.0	96256.2	95872.0	94489.2	94168.3
8°	78957.4	77217.8	76029.2	77101.7	77802.6	76645.6	78201.6	79223.4	78142.5	78239.6
9°	63683.1	63377.0	61724.0	63125.8	63887.9	62648.7	64371.4	64740.8	63729.6	64221.5
10°	52289.2	51932.4	50612.9	51180.8	52443.3	50965.5	52618.5	52738.9	51932.4	52162.5
12.5°	32313.4	32169.8	32134.0	32216.3	32199.4	32461.2	32883.4	32402.1	32338.7	31542.8
15°	20885.7	21098.9	20879.4	21301.6	21362.8	21609.8	21352.3	20963.8	20222.8	19855.5
17.5°	13034.3	13306.6	13682.4	14301.0	14919.6	14991.3	14649.3	14193.3	13834.4	13441.8
20°	7498.8	7631.8	7574.8	8315.9	9916.1	10351.0	9909.8	9430.5	8997.8	8600.9
22.5°	4659.3	4610.8	4699.4	4948.6	5470.0	6814.8	6453.8	5974.6	5660.0	5332.8
25°	2856.4	2909.2	2875.4	3012.6	3247.0	3817.0	3899.3	3692.4	3532.0	3363.1
27.5°	1838.8	1838.8	1853.6	1929.6	2090.0	2071.0	2510.2	2349.7	2263.2	2180.8
30°	1277.3	1281.5	1281.5	1325.8	1361.7	1298.4	1412.4	1619.3	1579.1	1515.8
32.5°	947.9	960.6	971.1	994.4	964.8	897.2	924.7	1165.4	1142.1	1118.9
35°	722.0	732.6	757.9	770.6	728.4	686.1	660.8	857.1	867.7	861.4
37.5°	525.7	532.0	578.5	627.0	578.5	540.5	525.7	658.7	709.3	703.0
40°	403.2	405.3	413.8	468.7	468.7	439.1	443.3	491.9	580.6	580.6
42.5°	346.2	346.2	354.7	346.2	348.3	380.0	390.6	396.9	491.9	491.9
45°	299.8	299.8	304.0	282.9	261.8	327.2	335.7	337.8	413.8	424.3
47.5°	251.2	251.2	259.7	232.2	221.7	259.7	282.9	289.2	356.8	365.2
50°	185.8	187.9	213.2	190.0	196.3	200.6	244.9	249.1	301.9	320.9
52.5°	124.6	124.6	128.8	147.8	171.0	164.7	198.4	213.2	240.7	266.0
55°	101.3	101.3	99.2	95.0	126.7	137.2	145.7	177.3	196.3	228.0
57.5°	69.7	73.9	67.6	78.1	82.3	103.4	109.8	139.3	149.9	192.1
60°	8.4	10.6	14.8	57.0	54.9	69.7	82.3	109.8	122.4	147.8
62.5°	2.1	2.1	4.2	10.6	38.0	46.4	65.4	76.0	88.7	114.0
65°	0.0	0.0	2.1	4.2	8.4	25.3	33.8	44.3	63.3	80.2
67.5°	0.0	0.0	2.1	4.2	4.2	10.6	16.9	27.4	33.8	59.1
70°	0.0	0.0	2.1	4.2	4.2	8.4	10.6	12.7	23.2	31.7
72.5°	0.0	0.0	2.1	4.2	6.3	8.4	10.6	10.6	10.6	21.1
75°	0.0	0.0	2.1	4.2	6.3	8.4	10.6	10.6	8.4	8.4
77.5°	0.0	0.0	2.1	4.2	8.4	10.6	12.7	10.6	6.3	6.3
80°	0.0	0.0	2.1	6.3	10.6	14.8	16.9	12.7	6.3	4.2
82.5°	0.0	0.0	4.2	8.4	12.7	16.9	23.2	19.0	8.4	4.2
85°	0.0	0.0	2.1	6.3	12.7	16.9	33.8	23.2	10.6	2.1
87.5°	0.0	0.0	0.0	2.1	2.1	4.2	12.7	8.4	4.2	2.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
192539.9	0°	192539.9	192539.9	192539.9	192539.9	192539.9	192539.9	192539.9	192539.9
189453.3	1°	190777.0	190910.0	190475.1	191148.6	190912.1	189527.2	189069.1	188526.5
181943.9	2°	181386.6	182064.3	182098.1	182845.4	182834.9	181219.8	180719.5	181642.0
168749.2	3°	168238.3	169027.9	168316.4	169644.3	169245.3	167286.2	166777.4	167824.5
152058.4	4°	151604.5	151454.6	151209.7	150453.9	151384.9	150048.5	149041.5	150462.3
132705.4	5°	132439.4	132105.8	131628.7	131404.9	132097.4	131242.3	129171.3	131246.6
113671.2	6°	113810.5	112374.9	112305.2	112180.7	112250.3	109856.3	109999.9	111545.2
93064.1	7°	94047.9	94311.8	93773.5	94636.9	93978.3	92356.9	91732.0	93359.7
78666.0	8°	78117.1	77783.6	77371.9	78661.8	77519.7	76455.6	75727.3	77013.0
64301.7	9°	64181.4	63605.0	63187.0	63121.6	63298.9	61301.7	61707.1	62680.3
52289.2	10°	52308.2	51362.4	51592.5	51653.7	51459.5	50150.6	50163.3	50498.9
32070.6	12.5°	31956.6	31492.2	31608.3	31671.6	32066.4	31606.2	30955.9	30487.3
20220.7	15°	20085.6	19752.0	20433.9	20892.0	20799.1	20389.6	20083.5	19659.1
13441.8	17.5°	13317.2	13754.2	13756.3	14174.3	14216.5	13807.0	13570.5	13188.4
8742.3	20°	8710.6	8892.2	9270.1	9565.7	9736.7	9424.2	9141.3	8879.5
5451.0	22.5°	5451.0	5767.7	6004.1	6388.4	6544.6	6316.6	6116.0	5902.8
3403.2	25°	3346.2	3572.1	3768.4	4102.0	4315.2	4205.4	4021.8	3871.9
2197.7	27.5°	2231.5	2326.5	2423.6	2653.7	2875.4	2814.2	2740.3	2649.5
1549.6	30°	1572.8	1581.3	1684.7	1813.5	1961.3	1999.3	1965.5	1919.0
1137.9	32.5°	1159.0	1192.8	1241.4	1321.6	1420.8	1511.6	1494.7	1473.6
869.8	35°	895.1	945.8	985.9	1047.1	1099.9	1186.5	1201.2	1194.9
715.7	37.5°	730.5	774.8	814.9	850.8	895.1	954.2	1000.7	1002.8
591.1	40°	605.9	646.0	698.8	726.2	757.9	802.2	859.2	863.5
500.3	42.5°	510.9	548.9	601.7	635.5	658.7	700.9	757.9	766.4
428.6	45°	439.1	462.3	517.2	557.3	580.6	608.0	669.2	677.7
369.5	47.5°	382.1	405.3	439.1	496.1	517.2	542.6	591.1	605.9
327.2	50°	335.7	358.9	388.5	439.1	470.8	491.9	532.0	553.1
285.0	52.5°	297.7	320.9	352.6	392.7	428.6	447.6	485.6	513.0
232.2	55°	249.1	289.2	312.5	348.3	396.9	413.8	443.3	479.2
202.7	57.5°	217.4	251.2	285.0	314.6	363.1	384.2	413.8	447.6
160.4	60°	183.7	215.3	255.5	280.8	327.2	354.7	386.3	418.0
122.4	62.5°	145.7	187.9	215.3	251.2	295.6	331.5	356.8	388.5
95.0	65°	107.7	154.1	185.8	223.8	266.0	304.0	325.1	358.9
67.6	67.5°	78.1	120.3	158.3	194.2	234.3	272.3	293.5	323.0
42.2	70°	61.2	88.7	130.9	162.6	204.8	236.4	259.7	278.7
27.4	72.5°	35.9	67.6	105.6	141.4	179.4	200.6	217.4	234.3
12.7	75°	23.2	52.8	86.6	118.2	145.7	164.7	179.4	194.2
6.3	77.5°	14.8	38.0	69.7	99.2	111.9	135.1	147.8	156.2
4.2	80°	8.4	29.6	61.2	80.2	90.8	105.6	118.2	128.8
4.2	82.5°	6.3	25.3	50.7	67.6	67.6	84.4	90.8	90.8
2.1	85°	4.2	21.1	40.1	63.3	50.7	63.3	59.1	59.1
2.1	87.5°	4.2	14.8	19.0	27.4	23.2	27.4	27.4	31.7
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
192539.9
186377.4
177734.3
163173.6
145319.5
125778.7
107065.3
88932.6
73341.7
59640.3
48214.7
30202.2
19441.7
13093.4
8788.8
5788.8
3785.3
2596.7
1887.4
1456.7
1173.8
988.0
857.1
760.0
675.6
608.0
555.2
513.0
481.3
449.7
426.5
403.2
365.2
325.1
285.0
238.6
194.2
152.0
116.1
84.4
57.0
31.7
0.0

(END OF REPORT)