

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: P638599

Luminaire Tested: **EPH-VN-08-E-930-U-33-VI**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-08
Report Number: P638599
Test Lab: INNOVATION CENTER(G2)
Issue Date: 11/2/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHESUS
Catalog Number: EPH-VN-08-E-930-U-33-VI
Description: EPHESUS LUMAVISION FLOOD – Middle Tier Light Square Luminaire w/
Nema 3 distribution lens and Visor
Light Source: (128) 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 43576.2 lumens
Efficiency: N/A
Efficacy: 69.5 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

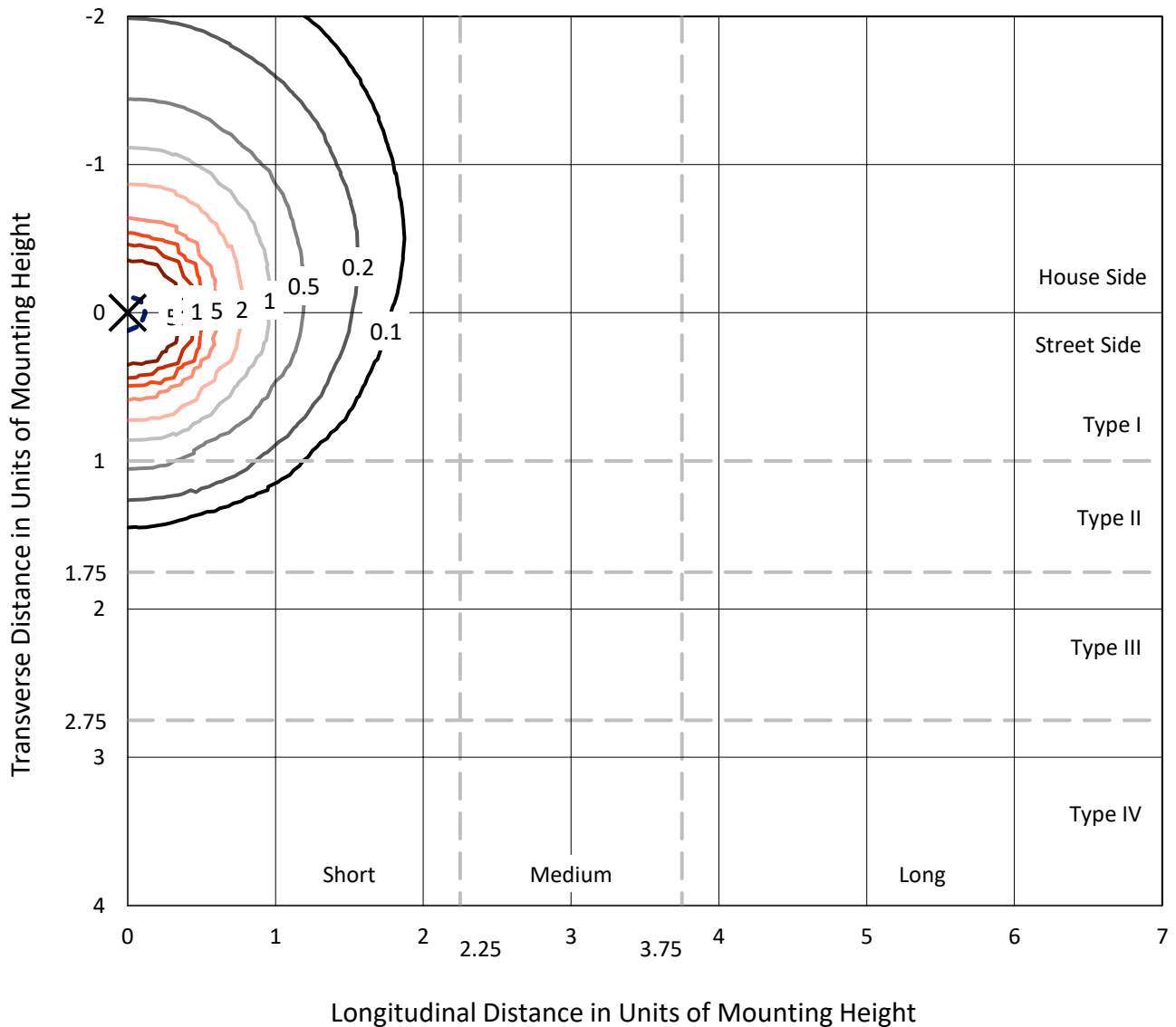
Input Watts (W): 626.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

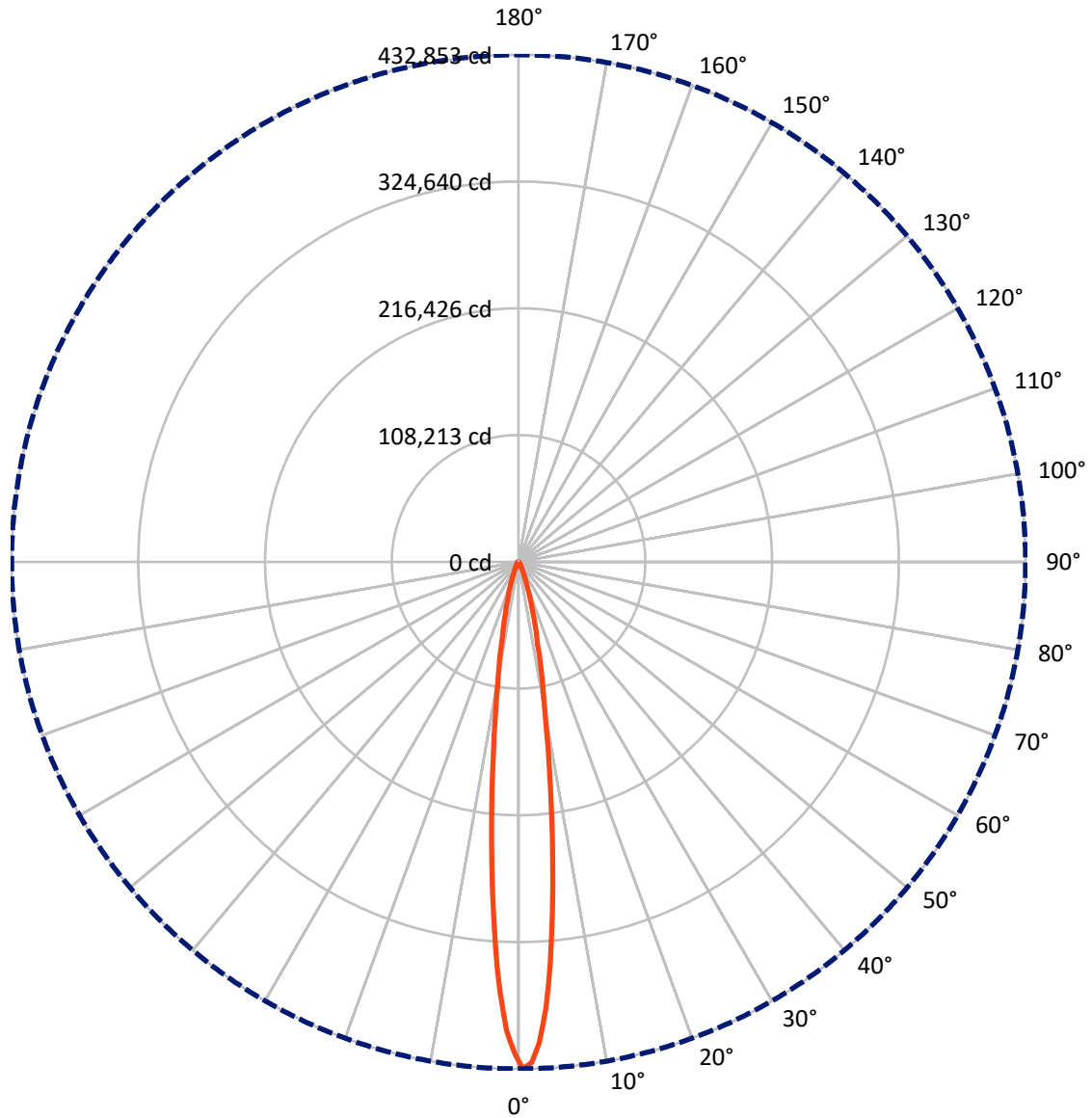
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 1082.1 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	22318.9	0.0	22318.9
	% Fixture	51.2	0.0	51.2
Street Side	Lumens	21257.3	0.0	21257.3
	% Fixture	48.8	0.0	48.8
Total	Lumens	43576.2	0.0	43576.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	21998.6	50.5
10°-20°	14083.4	32.3
20°-30°	4233.2	9.7
30°-40°	1378.3	3.2
40°-50°	802.0	1.8
50°-60°	532.7	1.2
60°-70°	320.6	0.7
70°-80°	164.8	0.4
80°-90°	62.6	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°	43576.2	100.0
0°-180°	43576.2	100.0

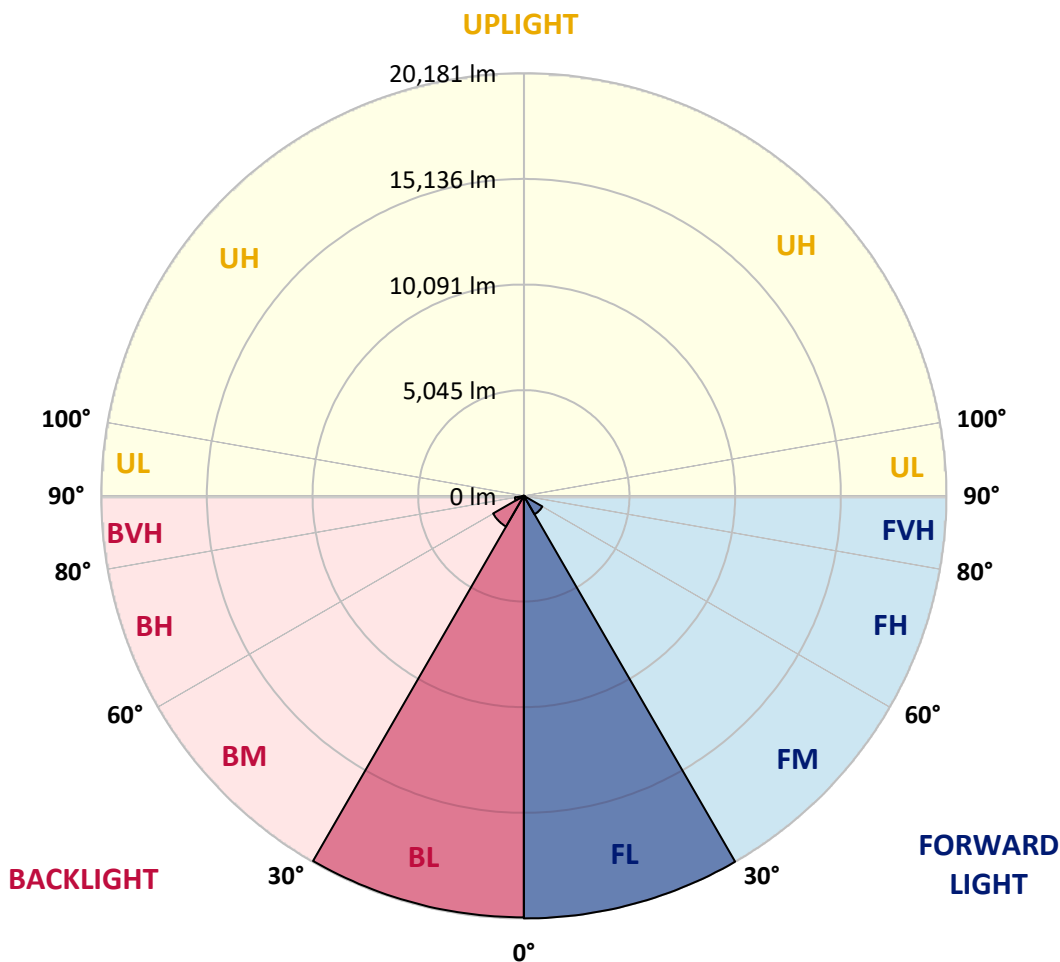


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	20181.5	46.3			
FM (30°-60°)	1018.4	2.3			
FH (60°-80°)	47.9	0.1			G0/660
FVH (80°-90°)	9.4	0.0			G0/10
BL (0°-30°)	20133.7	46.2	B5		
BM (30°-60°)	1694.6	3.9	B2/2500		
BH (60°-80°)	437.5	1.0	B1/500		G0/660
BVH (80°-90°)	53.2	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°	432852.9	432852.9	432852.9	432852.9	432852.9	432852.9	432852.9	432852.9	432852.9	432852.9
1°	427670.2	426365.0	422995.2	425392.0	427499.3	426887.0	426844.3	426616.5	426298.5	428795.0
2°	410574.6	409729.7	404746.3	406801.4	409796.2	407613.0	408979.8	407779.1	407802.8	410783.4
3°	381756.0	382216.4	374266.6	378001.8	382164.1	376872.2	378514.4	381599.4	378367.2	377394.3
4°	344299.4	340303.2	335960.4	339757.4	340834.7	337754.5	340782.5	344560.5	340070.6	340269.9
5°	301536.7	298584.6	293444.5	295789.1	293117.0	294090.0	298627.3	300184.0	297051.6	293107.5
6°	257568.4	255470.6	249044.3	252423.6	251474.4	250923.8	256652.4	251906.3	253614.9	251227.6
7°	214245.6	210325.3	207169.1	210406.0	210614.8	208958.4	216395.6	215531.8	212423.1	211701.7
8°	177505.7	173594.9	170922.8	173333.9	174909.6	172308.7	175806.6	178103.7	175673.7	175892.0
9°	143167.4	142479.2	138763.0	141914.4	143627.8	140841.8	144714.6	145545.2	143271.8	144377.7
10°	117552.5	116750.4	113784.0	115060.7	117898.9	114576.6	118292.9	118563.4	116750.4	117267.7
12.5°	72644.5	72321.7	72241.0	72426.1	72388.2	72976.7	73925.9	72843.8	72701.4	70912.1
15°	46953.6	47432.9	46939.3	47888.6	48026.2	48581.5	48002.5	47129.2	45463.3	44637.5
17.5°	29302.7	29914.9	30759.7	32150.4	33541.0	33702.4	32933.5	31908.3	31101.5	30218.7
20°	16858.3	17157.3	17029.2	18695.1	22292.6	23270.3	22278.4	21201.0	20228.1	19335.8
22.5°	10474.7	10365.6	10564.9	11125.0	12297.3	15320.5	14509.0	13431.6	12724.4	11988.8
25°	6421.5	6540.2	6464.2	6772.7	7299.6	8581.0	8766.1	8301.0	7940.3	7560.6
27.5°	4133.9	4133.9	4167.1	4338.0	4698.7	4656.0	5643.2	5282.5	5087.9	4902.8
30°	2871.4	2880.9	2880.9	2980.6	3061.3	2918.9	3175.2	3640.3	3550.1	3407.7
32.5°	2131.0	2159.5	2183.2	2235.4	2169.0	2017.1	2078.8	2619.9	2567.7	2515.5
35°	1623.2	1646.9	1703.9	1732.3	1637.4	1542.5	1485.5	1926.9	1950.7	1936.4
37.5°	1181.8	1196.0	1300.4	1409.6	1300.4	1215.0	1181.8	1480.8	1594.7	1580.5
40°	906.5	911.3	930.2	1053.6	1053.6	987.2	996.7	1105.9	1305.2	1305.2
42.5°	778.4	778.4	797.4	778.4	783.1	854.3	878.0	892.3	1105.9	1105.9
45°	674.0	674.0	683.4	636.0	588.5	735.7	754.6	759.4	930.2	954.0
47.5°	564.8	564.8	583.8	522.1	498.3	583.8	636.0	650.2	802.1	821.1
50°	417.7	422.4	479.4	427.2	441.4	450.9	550.6	560.0	678.7	721.4
52.5°	280.0	280.0	289.5	332.2	384.4	370.2	446.1	479.4	541.1	598.0
55°	227.8	227.8	223.1	213.6	284.8	308.5	327.5	398.7	441.4	512.6
57.5°	156.6	166.1	151.9	175.6	185.1	232.6	246.8	313.2	337.0	431.9
60°	19.0	23.7	33.2	128.1	123.4	156.6	185.1	246.8	275.3	332.2
62.5°	4.7	4.7	9.5	23.7	85.4	104.4	147.1	170.9	199.3	256.3
65°	0.0	0.0	4.7	9.5	19.0	57.0	75.9	99.7	142.4	180.4
67.5°	0.0	0.0	4.7	9.5	9.5	23.7	38.0	61.7	75.9	132.9
70°	0.0	0.0	4.7	9.5	9.5	19.0	23.7	28.5	52.2	71.2
72.5°	0.0	0.0	4.7	9.5	14.2	19.0	23.7	23.7	23.7	47.5
75°	0.0	0.0	4.7	9.5	14.2	19.0	23.7	23.7	19.0	19.0
77.5°	0.0	0.0	4.7	9.5	19.0	23.7	28.5	23.7	14.2	14.2
80°	0.0	0.0	4.7	14.2	23.7	33.2	38.0	28.5	14.2	9.5
82.5°	0.0	0.0	9.5	19.0	28.5	38.0	52.2	42.7	19.0	9.5
85°	0.0	0.0	4.7	14.2	28.5	38.0	75.9	52.2	23.7	4.7
87.5°	0.0	0.0	0.0	4.7	4.7	9.5	28.5	19.0	9.5	4.7
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°
432852.9	0°	432852.9	432852.9	432852.9	432852.9	432852.9	432852.9	432852.9	432852.9	432852.9
425914.1	1°	428889.9	429188.9	428211.2	429725.2	429193.7	426080.2	425050.3	423830.5	422074.5
409032.1	2°	407779.1	409302.6	409378.5	411058.7	411034.9	407404.1	406279.3	408353.4	404304.9
379368.7	3°	378220.1	379995.2	378395.7	381381.0	380484.0	376079.6	374935.8	377289.9	374347.2
341845.7	4°	340825.2	340488.3	339937.7	338238.6	340331.6	337327.3	335063.4	338257.6	331964.2
298337.8	5°	297739.8	296989.9	295917.2	295414.2	296970.9	295048.7	290392.7	295058.2	283833.6
255546.6	6°	255859.8	252632.4	252475.8	252195.8	252352.4	246970.3	247293.0	250767.2	241426.8
209219.5	7°	211431.2	212024.4	210814.2	212755.3	211274.5	207629.5	206224.6	209883.9	203282.0
176850.8	8°	175616.8	174866.9	173941.4	176841.3	174273.6	171881.6	170244.1	173134.5	168231.8
144558.0	9°	144287.5	142991.8	142052.0	141904.9	142303.6	137813.7	138725.0	140913.0	137960.9
117552.5	10°	117595.2	115468.9	115986.2	116123.9	115687.2	112744.6	112773.1	113527.7	109977.6
72098.7	12.5°	71842.4	70798.2	71059.2	71201.6	72089.2	71054.5	69592.7	68539.0	68007.5
45458.6	15°	45154.8	44404.9	45937.9	46967.8	46759.0	45838.2	45150.1	44196.1	43427.2
30218.7	17.5°	29938.7	30921.1	30925.9	31865.6	31960.5	31039.8	30508.2	29649.2	29687.1
19653.8	20°	19582.6	19990.8	20840.3	21504.8	21889.2	21186.8	20550.8	19962.3	19715.5
12254.5	22.5°	12254.5	12966.5	13498.0	14361.8	14713.0	14200.5	13749.6	13270.2	12976.0
7650.8	25°	7522.6	8030.5	8471.9	9221.8	9701.1	9454.3	9041.4	8704.4	8547.8
4940.7	27.5°	5016.7	5230.2	5448.6	5965.9	6464.2	6326.6	6160.5	5956.4	5885.2
3483.7	30°	3535.9	3554.9	3787.4	4076.9	4409.2	4494.6	4418.7	4314.2	4233.6
2558.2	32.5°	2605.6	2681.6	2790.7	2971.1	3194.2	3398.2	3360.3	3312.8	3274.8
1955.4	35°	2012.4	2126.3	2216.4	2354.1	2472.7	2667.3	2700.6	2686.3	2657.8
1608.9	37.5°	1642.2	1741.8	1832.0	1912.7	2012.4	2145.3	2249.7	2254.4	2225.9
1328.9	40°	1362.1	1452.3	1571.0	1632.7	1703.9	1803.5	1931.7	1941.2	1931.7
1124.8	42.5°	1148.6	1234.0	1352.7	1428.6	1480.8	1575.7	1703.9	1722.8	1703.9
963.5	45°	987.2	1039.4	1162.8	1253.0	1305.2	1366.9	1504.5	1523.5	1518.8
830.6	47.5°	859.1	911.3	987.2	1115.3	1162.8	1219.8	1328.9	1362.1	1362.1
735.7	50°	754.6	806.8	873.3	987.2	1058.4	1105.9	1196.0	1243.5	1243.5
640.7	52.5°	669.2	721.4	792.6	882.8	963.5	1006.2	1091.6	1153.3	1153.3
522.1	55°	560.0	650.2	702.4	783.1	892.3	930.2	996.7	1077.4	1077.4
455.6	57.5°	488.9	564.8	640.7	707.2	816.3	863.8	930.2	1006.2	1015.7
360.7	60°	412.9	484.1	574.3	631.2	735.7	797.4	868.5	939.7	958.7
275.3	62.5°	327.5	422.4	484.1	564.8	664.5	745.1	802.1	873.3	901.8
213.6	65°	242.1	346.5	417.7	503.1	598.0	683.4	730.9	806.8	825.8
151.9	67.5°	175.6	270.5	356.0	436.6	526.8	612.3	659.7	726.2	740.4
94.9	70°	137.6	199.3	294.3	365.5	460.4	531.6	583.8	626.5	640.7
61.7	72.5°	80.7	151.9	237.3	318.0	403.4	450.9	488.9	526.8	536.3
28.5	75°	52.2	118.7	194.6	265.8	327.5	370.2	403.4	436.6	441.4
14.2	77.5°	33.2	85.4	156.6	223.1	251.5	303.8	332.2	351.2	341.7
9.5	80°	19.0	66.4	137.6	180.4	204.1	237.3	265.8	289.5	265.8
9.5	82.5°	14.2	57.0	113.9	151.9	151.9	189.8	204.1	204.1	194.6
4.7	85°	9.5	47.5	90.2	142.4	113.9	142.4	132.9	132.9	132.9
4.7	87.5°	9.5	33.2	42.7	61.7	52.2	61.7	61.7	71.2	71.2
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
432852.9
418999.0
399568.2
366834.1
326696.0
282765.7
240695.9
199931.3
164881.0
134078.5
108392.4
67898.3
43707.2
29435.6
19758.2
13013.9
8509.8
5837.8
4243.1
3274.8
2638.9
2221.2
1926.9
1708.6
1518.8
1366.9
1248.2
1153.3
1082.1
1010.9
958.7
906.5
821.1
730.9
640.7
536.3
436.6
341.7
261.0
189.8
128.1
71.2
0.0

(END OF REPORT)