

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: P638801

Luminaire Tested: **EPH-VN-07-E-750-U-77-VI**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-08
Report Number: P638801
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-77-VI
Description: EPHESUS LUMAVISION FLOOD – Middle Tier Light Square Luminaire w/
Nema 7 distribution lens and Visor
Light Source: (112) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 44415.9 lumens
Efficiency: N/A
Efficacy: 83.4 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G3

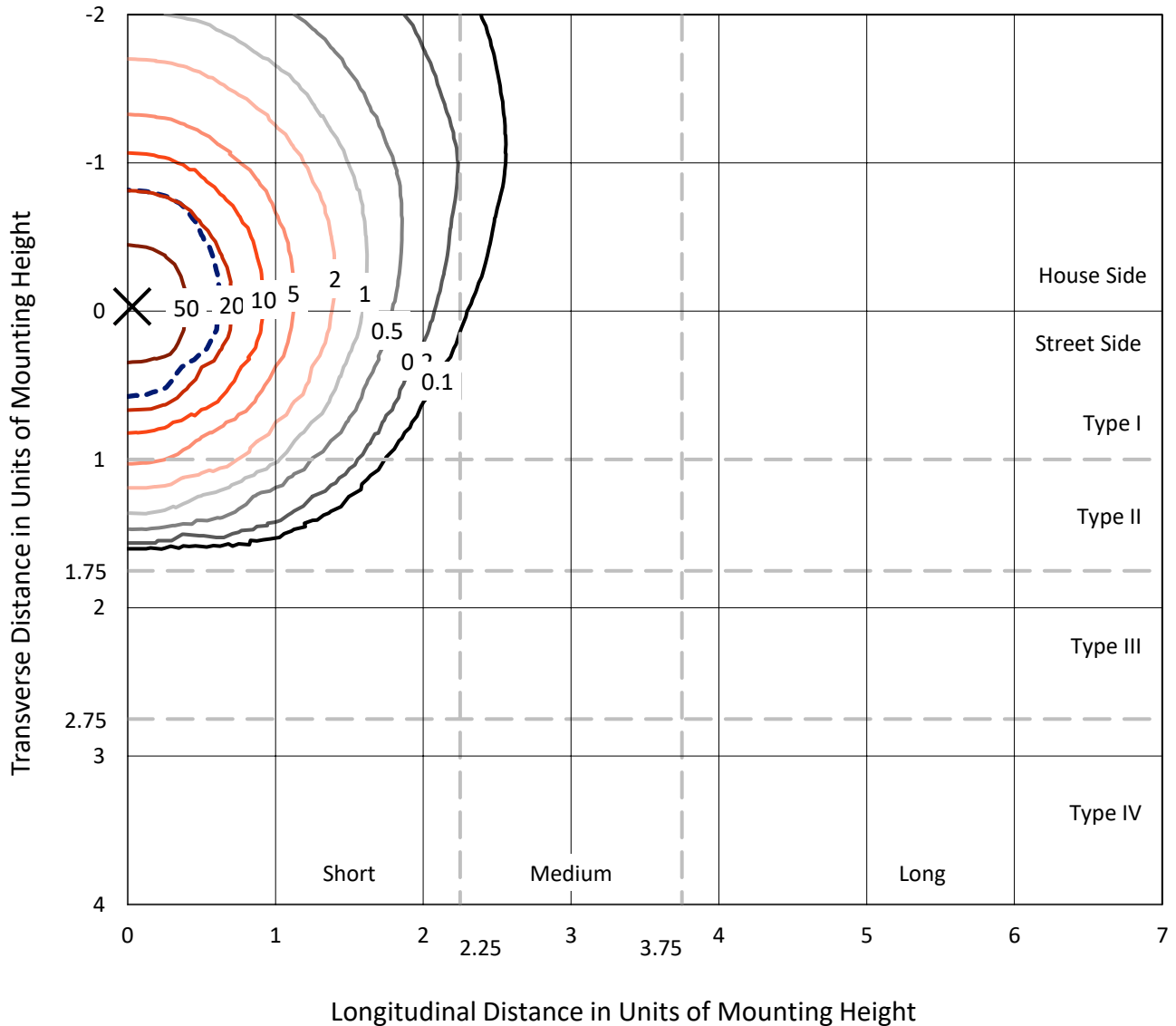
Input Watts (W): 532.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P638801
 CATALOG NUMBER: EPH-VN-07-E-750-U-77-VI

Iso-Footcandle Lines of Horizontal Illumination

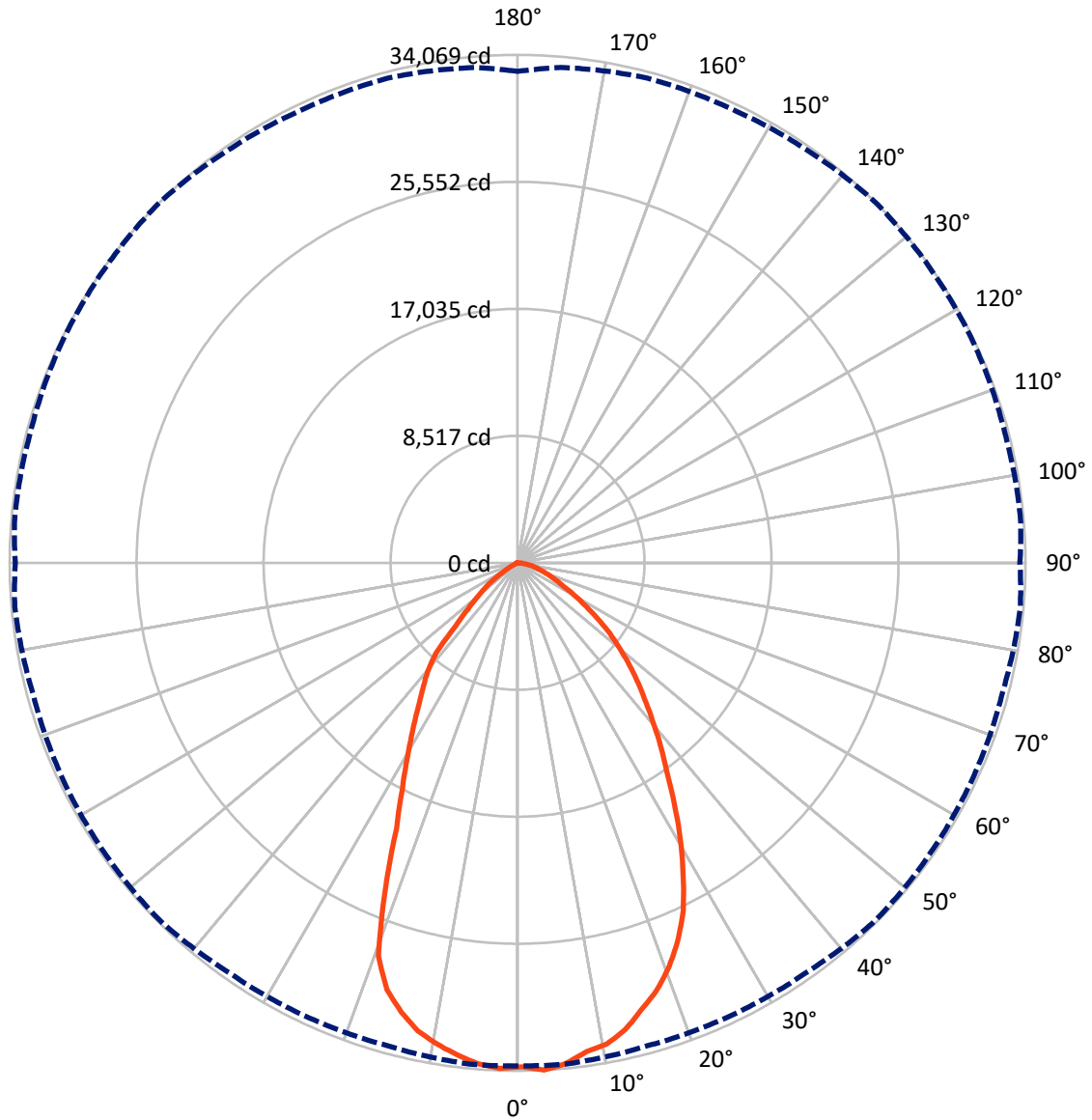
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 84.5 fc
 Type I - Short - N/A

REPORT NUMBER: P638801
CATALOG NUMBER: EPH-VN-07-E-750-U-77-VI

Luminous Intensity Polar Plot



— Vertical Plane Through 135-Deg Lateral - - - Horizontal Cone Through 2.5-Deg Vertical

REPORT NUMBER: P638801
 CATALOG NUMBER: EPH-VN-07-E-750-U-77-VI

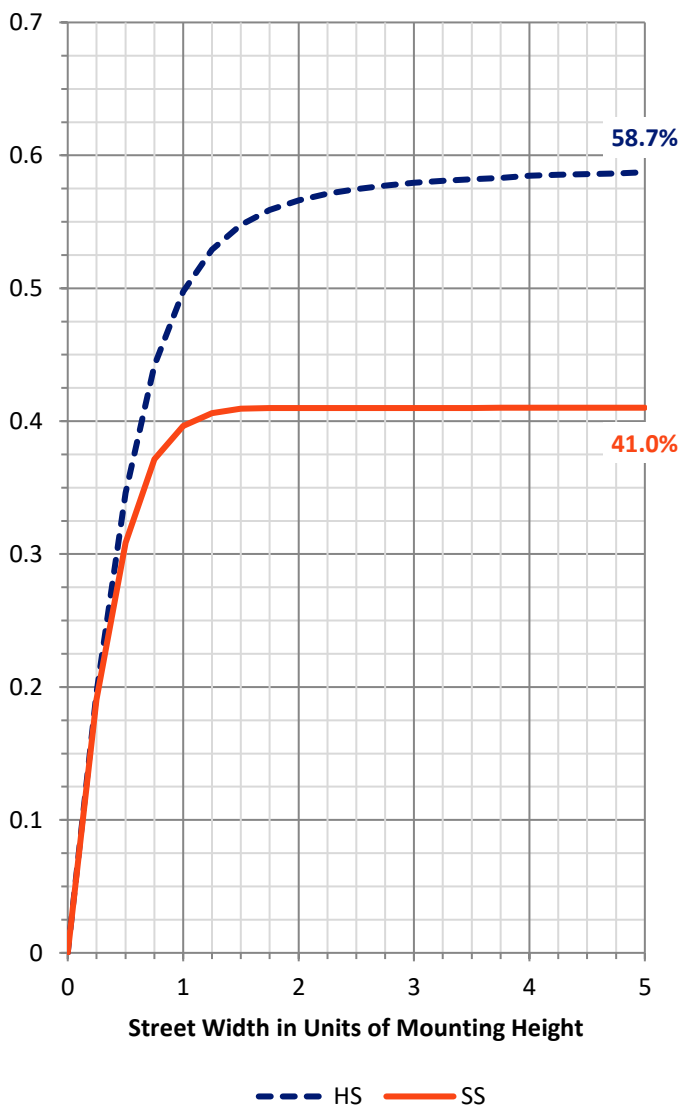
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	26305.4	0.0	26305.4
	% Fixture	59.2	0.0	59.2
Street Side	Lumens	18110.5	0.0	18110.5
	% Fixture	40.8	0.0	40.8
Total	Lumens	44415.9	0.0	44415.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3169.9	7.1
10°-20°	8500.4	19.1
20°-30°	10366.7	23.3
30°-40°	9464.7	21.3
40°-50°	6839.9	15.4
50°-60°	3734.7	8.4
60°-70°	1544.1	3.5
70°-80°	625.4	1.4
80°-90°	170.1	0.4
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°	44415.9	100.0
0°-180°	44415.9	100.0

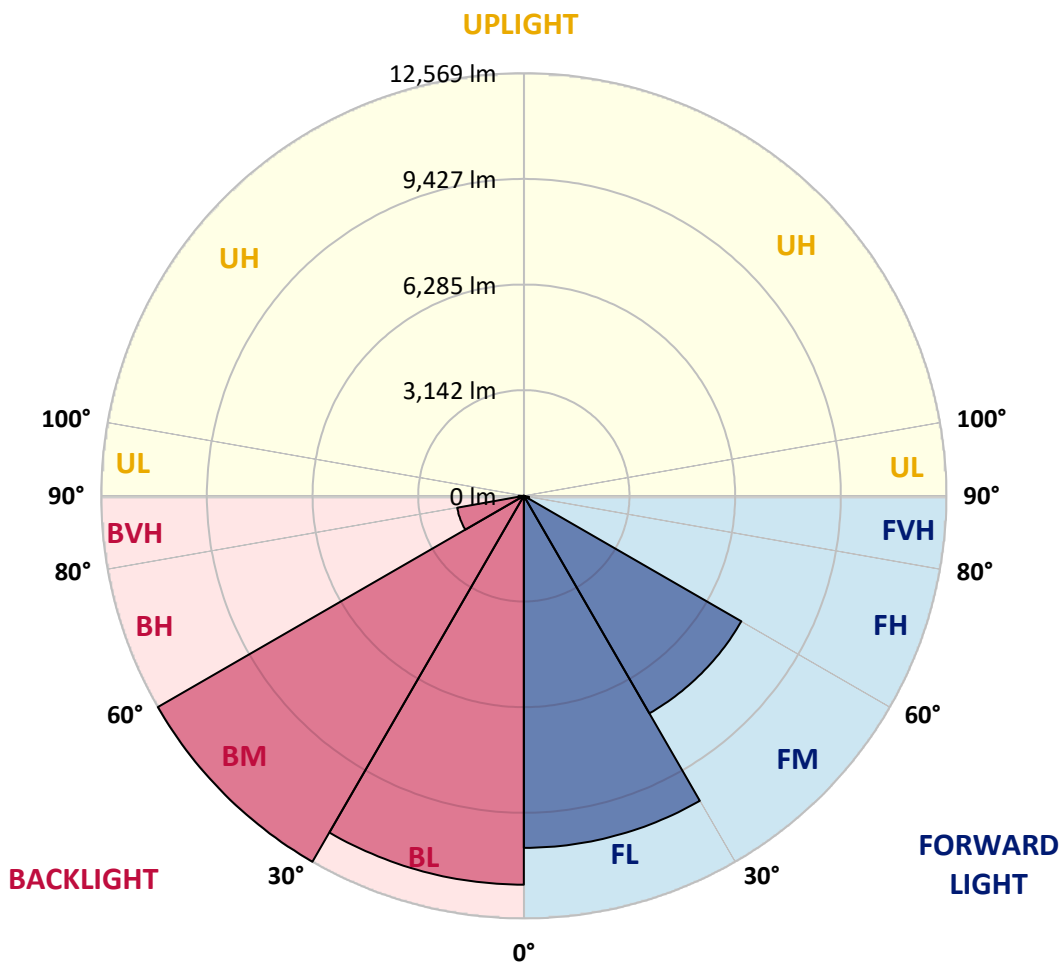


REPORT NUMBER: P638801
 CATALOG NUMBER: EPH-VN-07-E-750-U-77-VI

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	10470.5	23.6			
FM (30°-60°)	7469.9	16.8			
FH (60°-80°)	156.5	0.4			G0/660
FVH (80°-90°)	13.6	0.0			G1/100
BL (0°-30°)	11566.5	26.0	B5		
BM (30°-60°)	12569.3	28.3	B5		
BH (60°-80°)	2013.0	4.5	B3/2500		G3/2500
BVH (80°-90°)	156.5	0.4			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G3
 Type I Short





REPORT NUMBER: P638801
 CATALOG NUMBER: EPH-VN-07-E-750-U-77-VI

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	33800.4	33800.4	33800.4	33800.4	33800.4	33800.4	33800.4	33800.4	33800.4	33800.4
2.5°	33737.8	33781.6	33543.9	33568.9	33612.7	33931.7	33850.4	33775.4	33669.0	33850.4
5°	33694.0	33719.1	33468.9	33381.3	33418.8	33706.6	33443.9	33443.9	33418.8	33387.6
7.5°	33356.3	33368.8	33174.9	33018.5	33118.6	33250.0	33056.1	33149.9	33012.3	33118.6
10°	32849.7	32768.3	32536.9	32493.1	32605.7	32730.8	32599.5	32687.0	32561.9	32643.3
12.5°	32105.3	31980.3	31792.6	31736.3	31930.2	32099.1	31992.8	31942.7	31780.1	31980.3
15°	29234.4	29140.6	29565.9	30310.3	30979.5	31123.4	31010.8	31060.8	30723.1	30779.4
17.5°	24061.8	23886.7	24343.3	26107.1	28621.5	29947.5	29847.4	29522.2	29021.8	29134.4
20°	21866.4	21816.4	21766.3	22185.4	23943.0	27964.7	28102.3	27276.7	26563.7	26407.3
22.5°	20628.0	20609.2	20559.2	20653.0	21115.9	23699.0	25275.2	24512.1	24036.8	23993.0
25°	19495.9	19464.6	19314.5	19433.3	19433.3	19583.5	21603.7	22066.6	21647.5	21597.5
27.5°	18345.0	18288.7	18263.7	18320.0	18032.3	17019.0	17531.9	19789.9	19570.9	19583.5
30°	17100.3	17081.6	17012.8	17131.6	16243.4	14986.2	14661.0	17725.8	17769.6	17757.1
32.5°	15248.9	15330.3	15643.0	15774.3	14310.7	13272.5	12728.3	15336.5	16230.9	16212.2
35°	11077.1	11077.1	12096.6	13991.8	12540.7	11758.8	11464.9	13003.5	14711.0	14773.6
37.5°	9106.8	9138.1	9338.3	10201.4	10820.6	10545.4	10457.9	10945.7	12759.6	12859.7
40°	8193.7	8193.7	8193.7	7837.1	7818.4	9500.9	9450.8	9294.5	11020.8	11239.7
42.5°	7361.8	7380.5	7393.0	6492.4	5992.0	8212.4	8099.8	7862.2	9463.4	9719.8
45°	6504.9	6536.2	6573.7	5429.1	5210.2	5910.7	6855.1	6592.4	7924.7	8256.2
47.5°	3971.7	4021.8	4872.4	4603.5	4628.5	4559.7	5591.7	5547.9	6498.6	6967.7
50°	2683.3	2702.0	2783.3	2920.9	3971.7	3583.9	3959.2	4590.9	4935.0	5648.0
52.5°	2251.7	2283.0	2082.8	1895.2	2608.2	2802.1	2764.6	3408.8	3546.4	4428.3
55°	1582.4	1682.5	1588.7	1569.9	1482.4	2176.6	2095.3	2620.7	2708.3	3365.0
57.5°	162.6	187.6	325.2	1169.6	969.5	1232.2	1494.9	1920.2	2007.8	2483.1
60°	12.5	12.5	31.3	162.6	706.8	738.1	1032.0	1182.1	1351.0	1732.6
62.5°	0.0	6.3	12.5	25.0	112.6	394.0	519.1	619.2	813.1	1119.6
65°	0.0	0.0	6.3	18.8	25.0	150.1	200.2	325.2	444.1	694.3
67.5°	0.0	0.0	6.3	12.5	18.8	37.5	68.8	118.8	237.7	394.0
70°	0.0	0.0	6.3	12.5	18.8	31.3	50.0	75.1	106.3	212.7
72.5°	0.0	0.0	6.3	6.3	12.5	31.3	37.5	50.0	75.1	106.3
75°	0.0	0.0	6.3	6.3	18.8	37.5	31.3	37.5	50.0	68.8
77.5°	0.0	0.0	6.3	12.5	18.8	37.5	31.3	37.5	37.5	43.8
80°	0.0	0.0	6.3	12.5	25.0	43.8	37.5	37.5	31.3	31.3
82.5°	0.0	0.0	6.3	18.8	25.0	56.3	56.3	50.0	25.0	18.8
85°	0.0	0.0	12.5	25.0	37.5	62.5	62.5	50.0	18.8	12.5
87.5°	0.0	0.0	12.5	18.8	31.3	43.8	62.5	50.0	18.8	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: P638801
 CATALOG NUMBER: EPH-VN-07-E-750-U-77-VI

CANDELA DISTRIBUTION (continued):

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°
33800.4	0°	33800.4	33800.4	33800.4	33800.4	33800.4	33800.4	33800.4	33800.4	33800.4
33694.0	2.5°	33862.9	33825.4	33950.5	34000.5	34069.3	33806.6	33644.0	33650.3	33350.0
33312.5	5°	33512.7	33518.9	33681.5	33669.0	33737.8	33594.0	33531.4	33425.1	33162.4
32830.9	7.5°	33068.6	33012.3	33168.6	33287.5	33112.4	33212.4	33068.6	33118.6	32962.2
32405.6	10°	32724.6	32593.2	32737.1	32818.4	32824.6	32724.6	32587.0	32455.6	32399.3
31742.6	12.5°	31961.5	31792.6	32036.5	32149.1	32130.4	31936.5	31780.1	31811.4	31630.0
30579.2	15°	30910.7	30917.0	31092.1	31198.4	31098.3	31054.6	31067.1	30992.0	30835.6
28971.7	17.5°	29303.2	29397.1	29859.9	30116.4	30172.6	30085.1	30041.3	29953.7	29797.4
26407.3	20°	26626.2	27189.2	28014.8	28809.1	28965.5	28940.5	28784.1	28746.6	28659.0
23867.9	22.5°	24274.5	24693.5	25650.5	26888.9	27526.9	27589.5	27401.8	27345.5	27251.7
21597.5	25°	21841.4	22291.7	23154.9	24499.6	25819.4	26088.3	26057.1	25888.2	25788.1
19583.5	27.5°	19789.9	20240.2	21022.0	22235.4	23649.0	24512.1	24593.5	24324.5	24318.3
17788.4	30°	17938.5	18557.7	19151.9	20140.1	21509.9	22804.6	22942.2	22754.6	22773.3
16143.4	32.5°	16487.4	17000.3	17506.9	18169.9	19308.2	20815.6	21353.5	21178.4	21109.6
14773.6	35°	15005.0	15355.3	15874.4	16481.1	17256.7	18751.6	19683.5	19552.2	19483.4
12922.2	37.5°	13316.2	13916.7	14292.0	14973.7	15580.4	16768.8	18082.3	18063.6	17919.7
11346.0	40°	11583.7	12215.4	12784.6	13472.6	13941.7	14886.2	16343.5	16337.3	16356.0
9713.5	42.5°	10013.8	10595.5	11283.5	12034.0	12484.4	13172.4	14736.1	14823.6	14930.0
8368.8	45°	8594.0	9119.3	9757.3	10670.5	11214.7	11608.7	12997.3	13397.6	13391.3
7167.9	47.5°	7318.0	7812.1	8350.0	9238.2	9932.5	10289.0	11439.8	12009.0	11971.5
5879.4	50°	6142.1	6579.9	7142.9	7787.1	8719.0	9031.8	9888.7	10639.2	10582.9
4684.8	52.5°	4941.2	5547.9	6023.3	6611.2	7593.2	7899.7	8562.7	9294.5	9250.7
3515.1	55°	3852.9	4440.8	5016.3	5522.9	6348.5	6805.1	7280.5	8031.0	8018.5
2752.1	57.5°	2914.7	3558.9	4103.1	4584.7	5241.4	5804.4	6185.9	6867.7	6955.2
1882.7	60°	2157.9	2652.0	3239.9	3777.8	4297.0	4878.7	5135.1	5804.4	5841.9
1288.5	62.5°	1469.9	2014.0	2589.4	3077.3	3465.1	4065.6	4297.0	4847.4	4916.2
825.6	65°	1019.5	1369.8	2026.5	2376.8	2852.1	3365.0	3596.4	4034.3	4171.9
475.4	67.5°	675.5	975.7	1582.4	1901.4	2370.5	2720.8	3014.8	3371.3	3521.4
300.2	70°	369.0	719.3	1132.1	1501.1	1907.7	2245.4	2533.2	2820.9	2952.2
137.6	72.5°	250.2	481.6	788.1	1188.4	1538.7	1870.2	2126.6	2339.3	2345.5
81.3	75°	125.1	325.2	600.5	919.4	1200.9	1526.1	1757.6	1882.7	1732.6
50.0	77.5°	75.1	237.7	487.9	738.1	975.7	1232.2	1363.5	1432.3	1188.4
37.5	80°	43.8	168.9	381.5	587.9	675.5	906.9	1032.0	1050.8	794.3
25.0	82.5°	31.3	125.1	300.2	431.6	412.8	638.0	775.6	750.6	506.6
18.8	85°	18.8	87.6	187.6	269.0	250.2	419.1	450.3	462.8	294.0
12.5	87.5°	12.5	50.0	100.1	143.9	118.8	181.4	181.4	218.9	143.9
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
33800.4
32962.2
33099.8
32699.5
32149.1
31473.6
30679.3
29728.6
28458.9
27226.7
25681.8
24305.7
22679.5
21115.9
19389.6
18038.5
16356.0
14873.7
13403.8
11984.0
10633.0
9344.5
8049.8
6917.7
5898.2
4928.7
4140.6
3502.6
2902.2
2289.2
1620.0
1144.6
744.3
469.1
269.0
125.1
0.0

(END OF REPORT)