

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: P638789

Luminaire Tested: **EPH-VN-07-E-735-U-77-VI**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-08
Report Number: P638789
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-735-U-77-VI
Description: EPHESUS LUMAVISION FLOOD – Middle Tier Light Square Luminaire w/
Nema 7 distribution lens and Visor
Light Source: (112) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 42826.7 lumens
Efficiency: N/A
Efficacy: 80.4 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G3

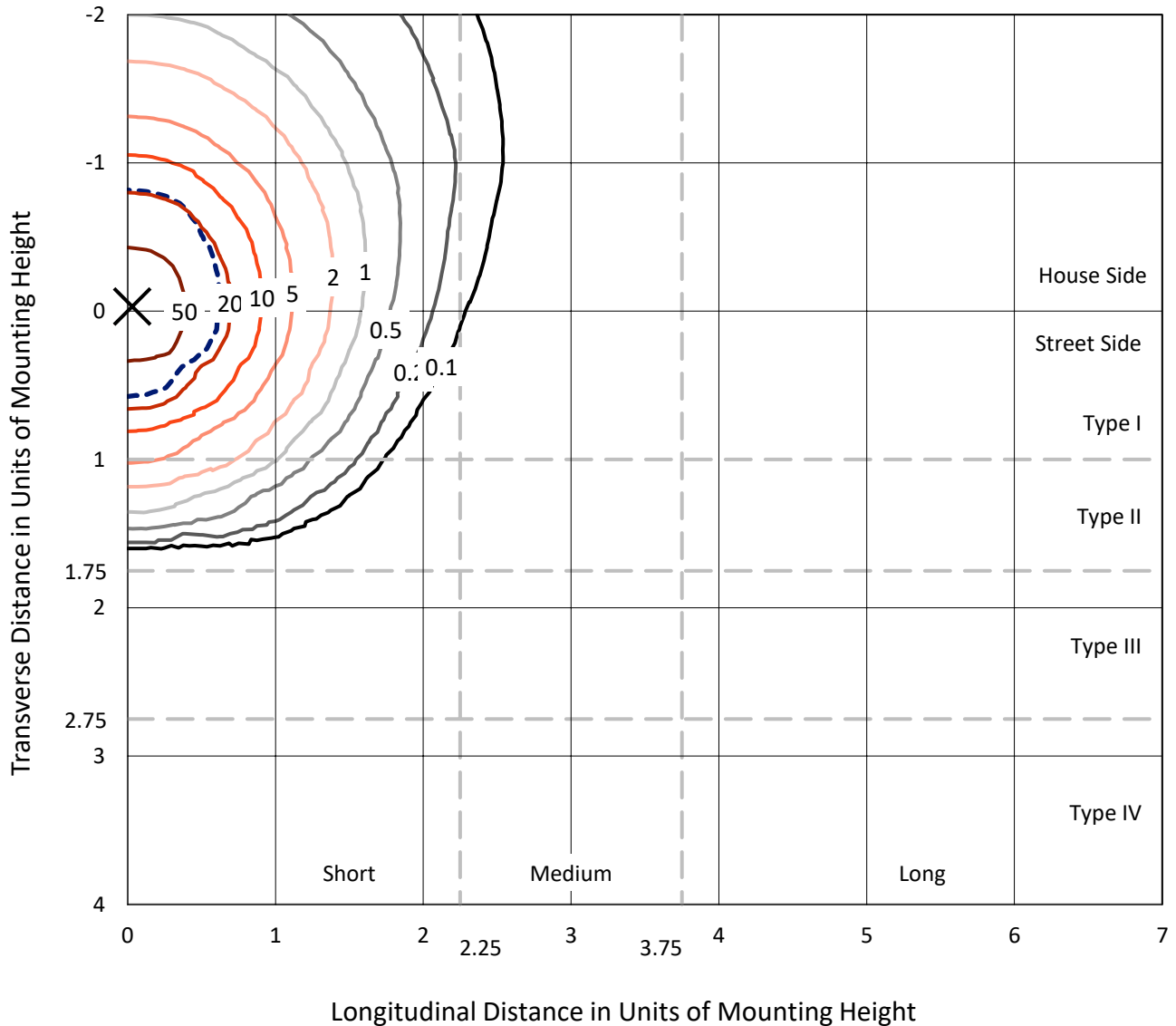
Input Watts (W): 532.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P638789
 CATALOG NUMBER: EPH-VN-07-E-735-U-77-VI

Iso-Footcandle Lines of Horizontal Illumination

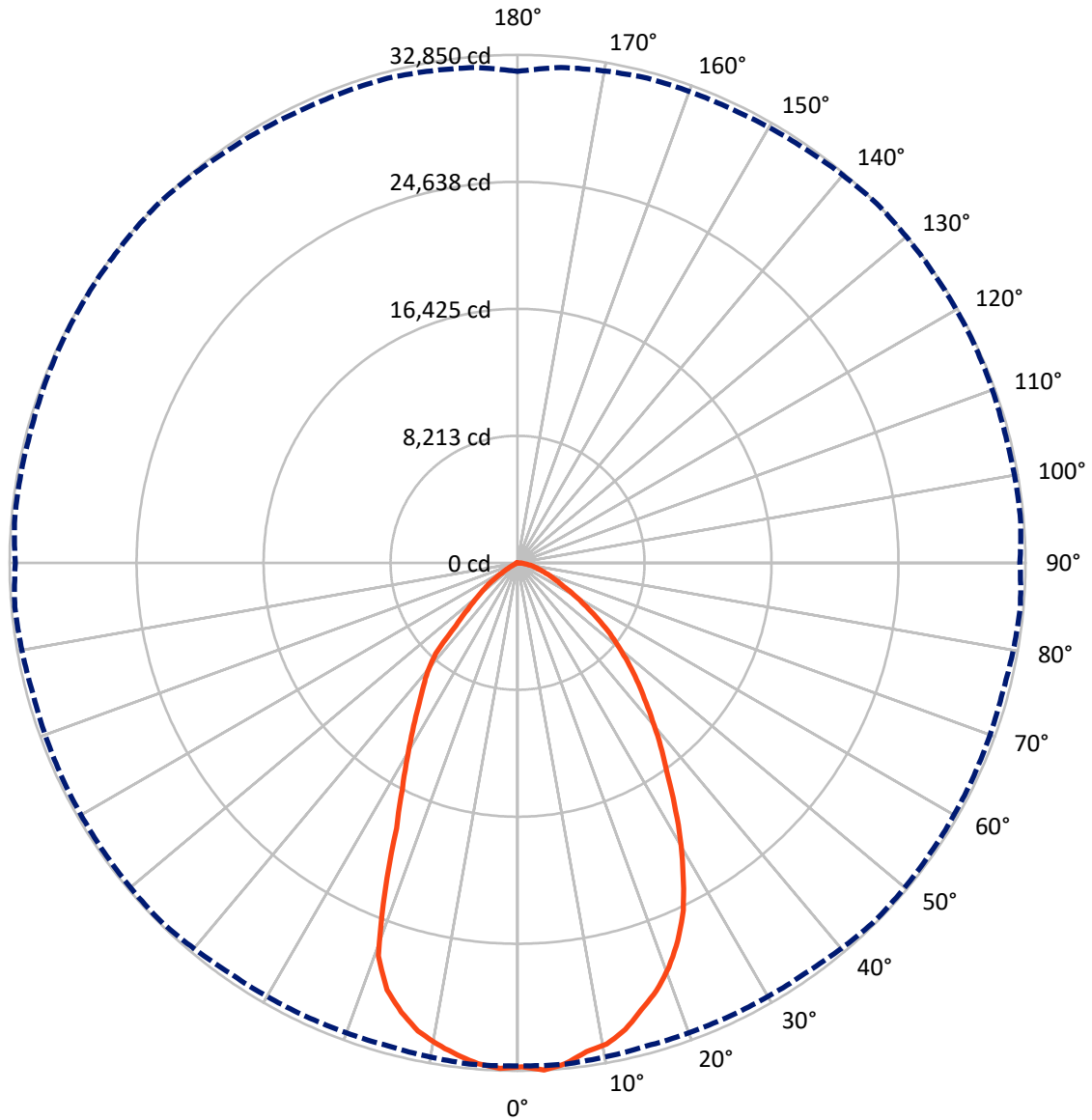
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 81.5 fc
 Type I - Short - N/A

REPORT NUMBER: P638789
CATALOG NUMBER: EPH-VN-07-E-735-U-77-VI

Luminous Intensity Polar Plot



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

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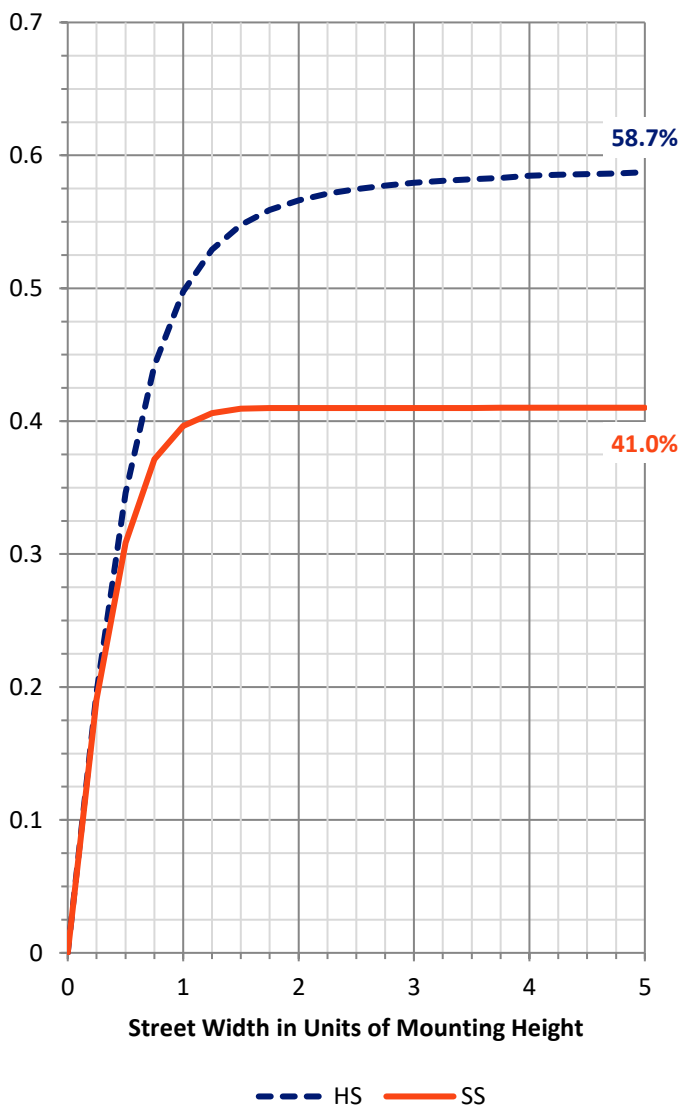
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	25364.1	0.0	25364.1
	% Fixture	59.2	0.0	59.2
Street Side	Lumens	17462.5	0.0	17462.5
	% Fixture	40.8	0.0	40.8
Total	Lumens	42826.7	0.0	42826.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3056.5	7.1
10°-20°	8196.2	19.1
20°-30°	9995.8	23.3
30°-40°	9126.0	21.3
40°-50°	6595.2	15.4
50°-60°	3601.0	8.4
60°-70°	1488.9	3.5
70°-80°	603.0	1.4
80°-90°	164.0	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°	42826.7	100.0
0°-180°	42826.7	100.0

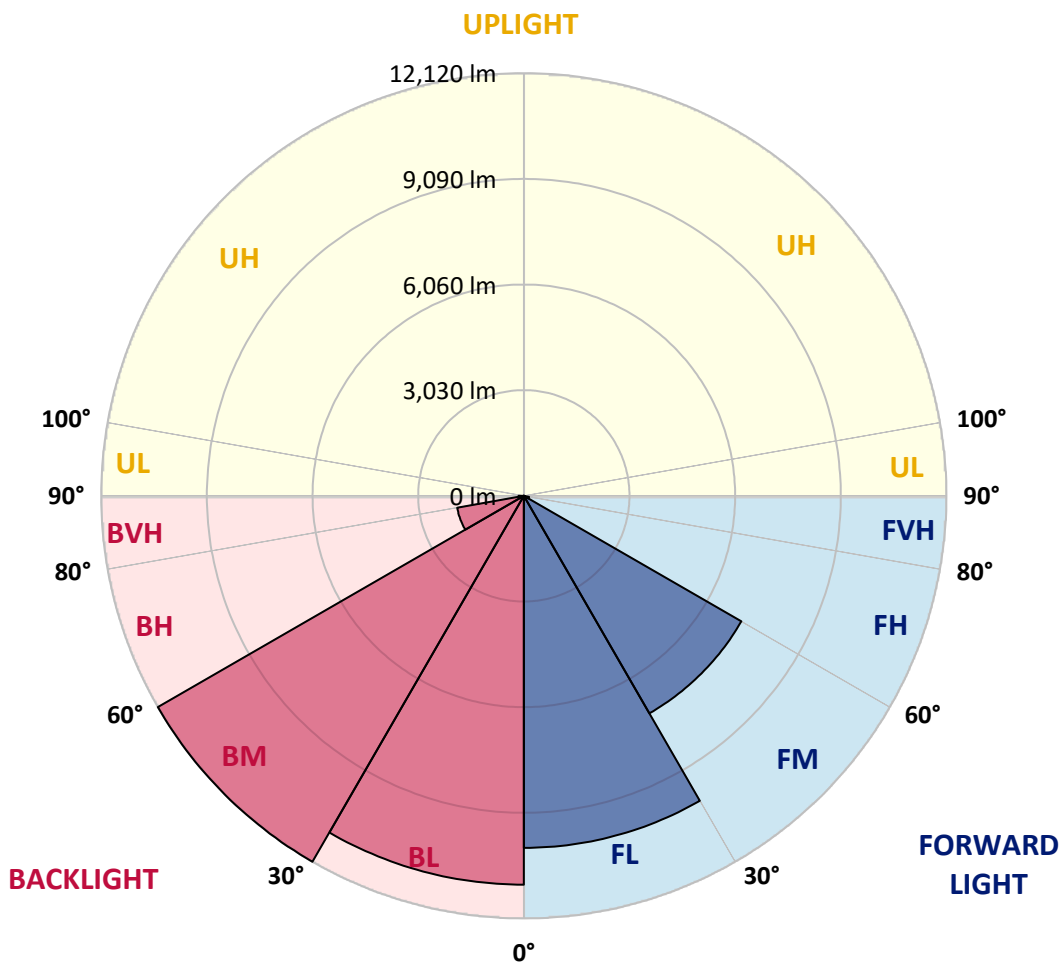


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	10095.8	23.6			
FM (30°-60°)	7202.7	16.8			
FH (60°-80°)	150.9	0.4			G0/660
FVH (80°-90°)	13.1	0.0			G1/100
BL (0°-30°)	11152.7	26.0	B5		
BM (30°-60°)	12119.6	28.3	B5		
BH (60°-80°)	1941.0	4.5	B3/2500		G3/2500
BVH (80°-90°)	150.9	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	32591.0	32591.0	32591.0	32591.0	32591.0	32591.0	32591.0	32591.0	32591.0	32591.0
2.5°	32530.7	32572.9	32343.7	32367.8	32410.0	32717.6	32639.2	32566.9	32464.3	32639.2
5°	32488.4	32512.6	32271.3	32186.9	32223.1	32500.5	32247.2	32247.2	32223.1	32192.9
7.5°	32162.8	32174.8	31987.9	31837.1	31933.6	32060.3	31873.3	31963.8	31831.1	31933.6
10°	31674.3	31595.9	31372.7	31330.5	31439.1	31559.7	31433.0	31517.5	31396.9	31475.3
12.5°	30956.6	30836.0	30655.1	30600.8	30787.7	30950.6	30848.0	30799.8	30643.0	30836.0
15°	28188.4	28098.0	28508.1	29225.7	29871.0	30009.7	29901.2	29949.4	29623.8	29678.0
17.5°	23200.9	23032.0	23472.3	25173.0	27597.4	28875.9	28779.4	28465.8	27983.4	28091.9
20°	21084.0	21035.8	20987.5	21391.6	23086.3	26964.1	27096.8	26300.7	25613.2	25462.5
22.5°	19889.9	19871.8	19823.6	19914.0	20360.3	22851.1	24370.9	23635.1	23176.7	23134.5
25°	18798.3	18768.2	18623.4	18738.0	18738.0	18882.7	20830.7	21277.0	20872.9	20824.7
27.5°	17688.6	17634.3	17610.2	17664.5	17387.1	16410.1	16904.6	19081.8	18870.7	18882.7
30°	16488.5	16470.4	16404.0	16518.6	15662.2	14450.0	14136.4	17091.6	17133.8	17121.7
32.5°	14703.3	14781.7	15083.3	15209.9	13798.7	12797.6	12272.9	14787.8	15650.2	15632.1
35°	10680.7	10680.7	11663.8	13491.1	12092.0	11338.1	11054.6	12538.2	14184.7	14245.0
37.5°	8781.0	8811.1	9004.1	9836.4	10433.5	10168.1	10083.7	10554.1	12303.0	12399.5
40°	7900.5	7900.5	7900.5	7556.7	7538.6	9160.9	9112.7	8961.9	10626.4	10837.5
42.5°	7098.4	7116.5	7128.5	6260.1	5777.6	7918.6	7810.0	7580.8	9124.7	9372.0
45°	6272.1	6302.3	6338.5	5234.8	5023.7	5699.2	6609.9	6356.6	7641.1	7960.8
47.5°	3829.6	3877.9	4698.1	4438.7	4462.9	4396.5	5391.6	5349.4	6266.1	6718.4
50°	2587.3	2605.3	2683.7	2816.4	3829.6	3455.7	3817.6	4426.7	4758.4	5445.9
52.5°	2171.1	2201.3	2008.3	1827.4	2514.9	2701.8	2665.7	3286.8	3419.5	4269.9
55°	1525.8	1622.3	1531.8	1513.8	1429.3	2098.8	2020.4	2526.9	2611.4	3244.6
57.5°	156.8	180.9	313.6	1127.8	934.8	1188.1	1441.4	1851.5	1935.9	2394.3
60°	12.1	12.1	30.2	156.8	681.5	711.6	995.1	1139.8	1302.7	1670.6
62.5°	0.0	6.0	12.1	24.1	108.6	379.9	500.6	597.1	784.0	1079.5
65°	0.0	0.0	6.0	18.1	24.1	144.7	193.0	313.6	428.2	669.4
67.5°	0.0	0.0	6.0	12.1	18.1	36.2	66.3	114.6	229.2	379.9
70°	0.0	0.0	6.0	12.1	18.1	30.2	48.2	72.4	102.5	205.1
72.5°	0.0	0.0	6.0	6.0	12.1	30.2	36.2	48.2	72.4	102.5
75°	0.0	0.0	6.0	6.0	18.1	36.2	30.2	36.2	48.2	66.3
77.5°	0.0	0.0	6.0	12.1	18.1	36.2	30.2	36.2	36.2	42.2
80°	0.0	0.0	6.0	12.1	24.1	42.2	36.2	36.2	30.2	30.2
82.5°	0.0	0.0	6.0	18.1	24.1	54.3	54.3	48.2	24.1	18.1
85°	0.0	0.0	12.1	24.1	36.2	60.3	60.3	48.2	18.1	12.1
87.5°	0.0	0.0	12.1	18.1	30.2	42.2	60.3	48.2	18.1	6.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P638789

CATALOG NUMBER: EPH-VN-07-E-735-U-77-VI

CANDELA DISTRIBUTION (continued):

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°
32591.0	0°	32591.0	32591.0	32591.0	32591.0	32591.0	32591.0	32591.0	32591.0	32591.0
32488.4	2.5°	32651.3	32615.1	32735.7	32784.0	32850.3	32597.0	32440.2	32446.2	32156.7
32120.6	5°	32313.6	32319.6	32476.4	32464.3	32530.7	32392.0	32331.6	32229.1	31975.8
31656.2	7.5°	31885.4	31831.1	31981.9	32096.4	31927.6	32024.1	31885.4	31933.6	31782.8
31246.1	10°	31553.7	31427.0	31565.7	31644.1	31650.2	31553.7	31421.0	31294.3	31240.1
30606.8	12.5°	30817.9	30655.1	30890.3	30998.8	30980.7	30793.8	30643.0	30673.1	30498.3
29485.1	15°	29804.7	29810.7	29979.6	30082.1	29985.6	29943.4	29955.5	29883.1	29732.3
27935.1	17.5°	28254.8	28345.2	28791.5	29038.8	29093.1	29008.6	28966.4	28882.0	28731.2
25462.5	20°	25673.5	26216.3	27012.4	27778.3	27929.1	27905.0	27754.2	27718.0	27633.6
23013.9	22.5°	23405.9	23810.0	24732.7	25926.8	26542.0	26602.3	26421.4	26367.1	26276.6
20824.7	25°	21059.9	21494.1	22326.4	23623.0	24895.5	25154.9	25124.7	24961.9	24865.4
18882.7	27.5°	19081.8	19516.0	20269.8	21439.8	22802.8	23635.1	23713.5	23454.2	23448.1
17151.9	30°	17296.6	17893.7	18466.6	19419.5	20740.3	21988.7	22121.3	21940.4	21958.5
15565.7	32.5°	15897.4	16392.0	16880.5	17519.8	18617.4	20070.8	20589.5	20420.6	20354.3
14245.0	35°	14468.1	14805.9	15306.4	15891.4	16639.2	18080.6	18979.2	18852.6	18786.2
12459.8	37.5°	12839.8	13418.7	13780.6	14438.0	15023.0	16168.8	17435.3	17417.2	17278.5
10940.0	40°	11169.2	11778.3	12327.2	12990.6	13442.9	14353.5	15758.7	15752.7	15770.8
9366.0	42.5°	9655.5	10216.3	10879.7	11603.4	12037.7	12701.1	14208.8	14293.2	14395.8
8069.3	45°	8286.5	8793.0	9408.2	10288.7	10813.4	11193.3	12532.2	12918.2	12912.2
6911.4	47.5°	7056.2	7532.6	8051.2	8907.6	9577.1	9920.8	11030.5	11579.3	11543.1
5669.0	50°	5922.3	6344.5	6887.3	7508.5	8407.1	8708.6	9534.9	10258.6	10204.3
4517.1	52.5°	4764.4	5349.4	5807.8	6374.7	7321.5	7617.0	8256.3	8961.9	8919.7
3389.4	55°	3715.0	4281.9	4836.8	5325.3	6121.4	6561.6	7020.0	7743.7	7731.6
2653.6	57.5°	2810.4	3431.6	3956.3	4420.6	5053.9	5596.7	5964.6	6621.9	6706.4
1815.3	60°	2080.7	2557.1	3124.0	3642.7	4143.2	4704.1	4951.4	5596.7	5632.9
1242.4	62.5°	1417.3	1941.9	2496.8	2967.2	3341.1	3920.1	4143.2	4673.9	4740.3
796.1	65°	983.0	1320.8	1954.0	2291.7	2750.1	3244.6	3467.8	3889.9	4022.6
458.3	67.5°	651.3	940.8	1525.8	1833.4	2285.7	2623.4	2906.9	3250.7	3395.4
289.5	70°	355.8	693.6	1091.6	1447.4	1839.4	2165.1	2442.5	2719.9	2846.6
132.7	72.5°	241.2	464.4	759.9	1145.9	1483.6	1803.2	2050.5	2255.6	2261.6
78.4	75°	120.6	313.6	579.0	886.5	1157.9	1471.5	1694.7	1815.3	1670.6
48.2	77.5°	72.4	229.2	470.4	711.6	940.8	1188.1	1314.7	1381.1	1145.9
36.2	80°	42.2	162.8	367.9	566.9	651.3	874.5	995.1	1013.2	765.9
24.1	82.5°	30.2	120.6	289.5	416.1	398.0	615.2	747.8	723.7	488.5
18.1	85°	18.1	84.4	180.9	259.3	241.2	404.1	434.2	446.3	283.5
12.1	87.5°	12.1	48.2	96.5	138.7	114.6	174.9	174.9	211.1	138.7
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
32591.0
31782.8
31915.5
31529.5
30998.8
30347.5
29581.6
28664.9
27440.6
26252.5
24762.9
23436.1
21868.0
20360.3
18695.8
17393.1
15770.8
14341.5
12924.2
11555.2
10252.5
9010.2
7761.8
6670.2
5687.1
4752.3
3992.5
3377.3
2798.3
2207.3
1562.0
1103.7
717.7
452.3
259.3
120.6
0.0

(END OF REPORT)