

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: P638728

Luminaire Tested: **EPH-VN-06-E-730-U-66-VI**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-08
Report Number: P638728
Test Lab: INNOVATION CENTER(G2)
Issue Date: 11/2/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHESUS
Catalog Number: EPH-VN-06-E-730-U-66-VI
Description: EPHESUS LUMAVISION FLOOD – Middle Tier Light Square Luminaire w/
Nema 6 distribution lens and Visor
Light Source: (96) 3000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 40628.1 lumens
Efficiency: N/A
Efficacy: 87.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G2

Input Watts (W): 464.2
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



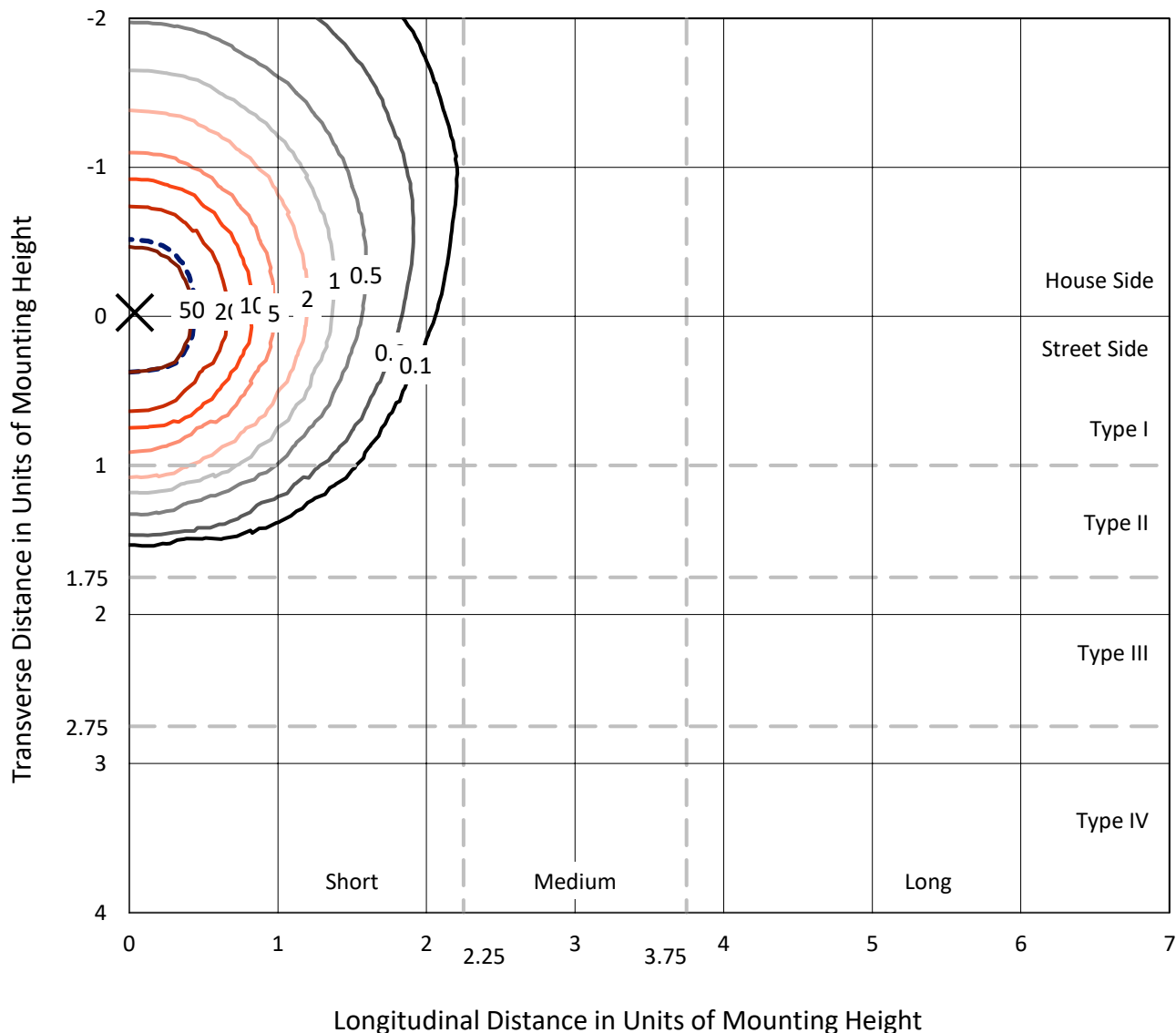
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

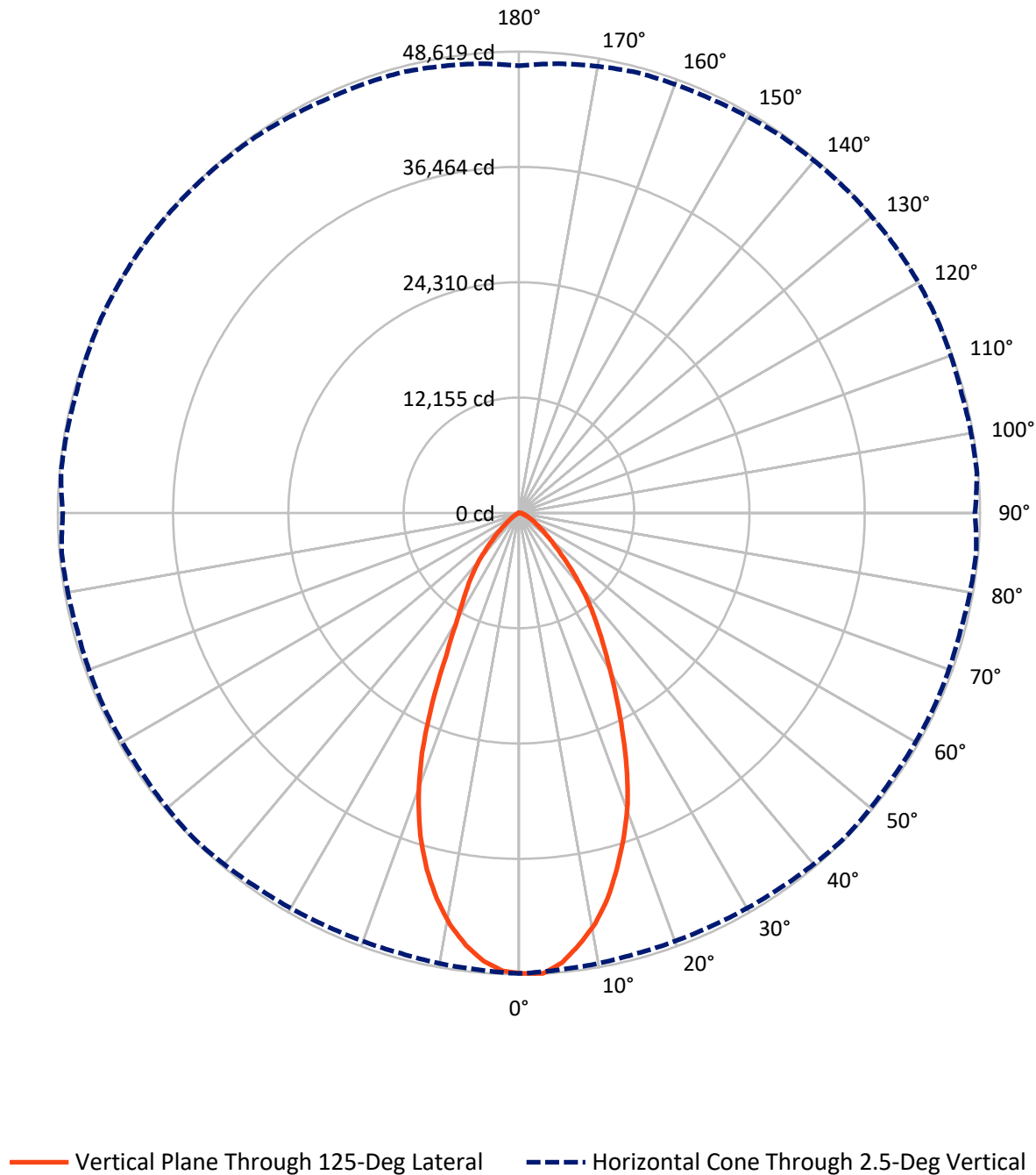


Based on 20 foot mounting height. Maximum calculated value = 121.4 fc

Type I - Short - N/A

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Luminous Intensity Polar Plot



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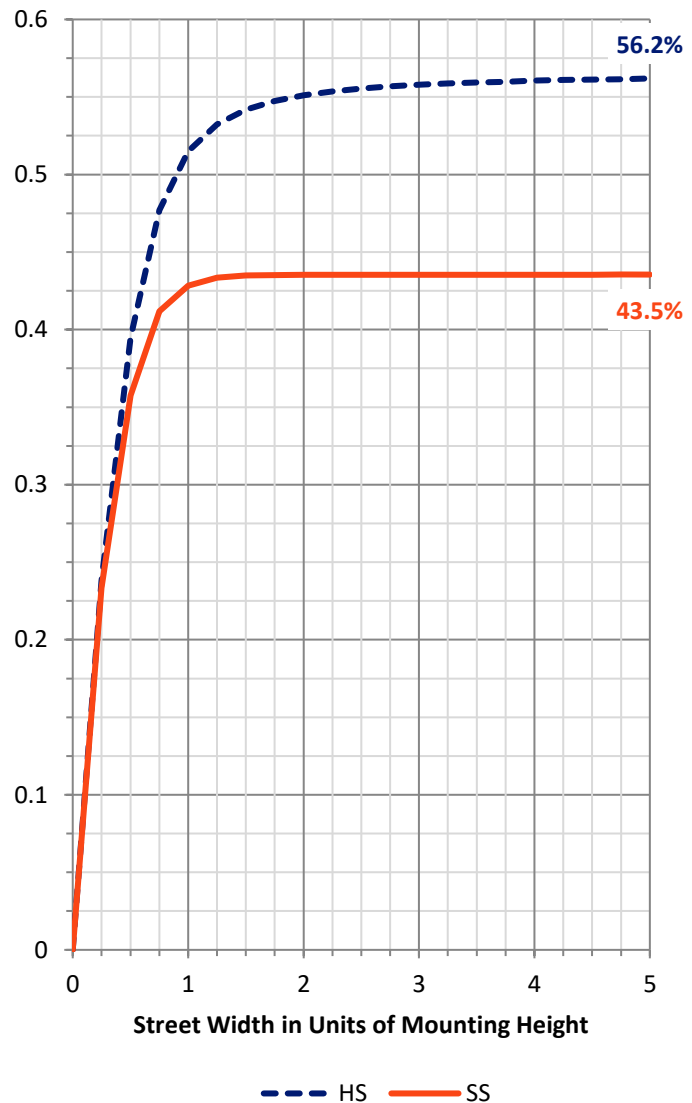
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	23054.0	0.0	23054.0
	% Fixture	56.7	0.0	56.7
Street Side	Lumens	17574.1	0.0	17574.1
	% Fixture	43.3	0.0	43.3
Total	Lumens	40628.1	0.0	40628.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4407.7	10.8
10°-20°	10506.9	25.9
20°-30°	10701.1	26.3
30°-40°	7979.8	19.6
40°-50°	4168.8	10.3
50°-60°	1753.4	4.3
60°-70°	716.1	1.8
70°-80°	301.4	0.7
80°-90°	92.9	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°	40628.1	100.0
0°-180°	40628.1	100.0

Coefficient of Utilization



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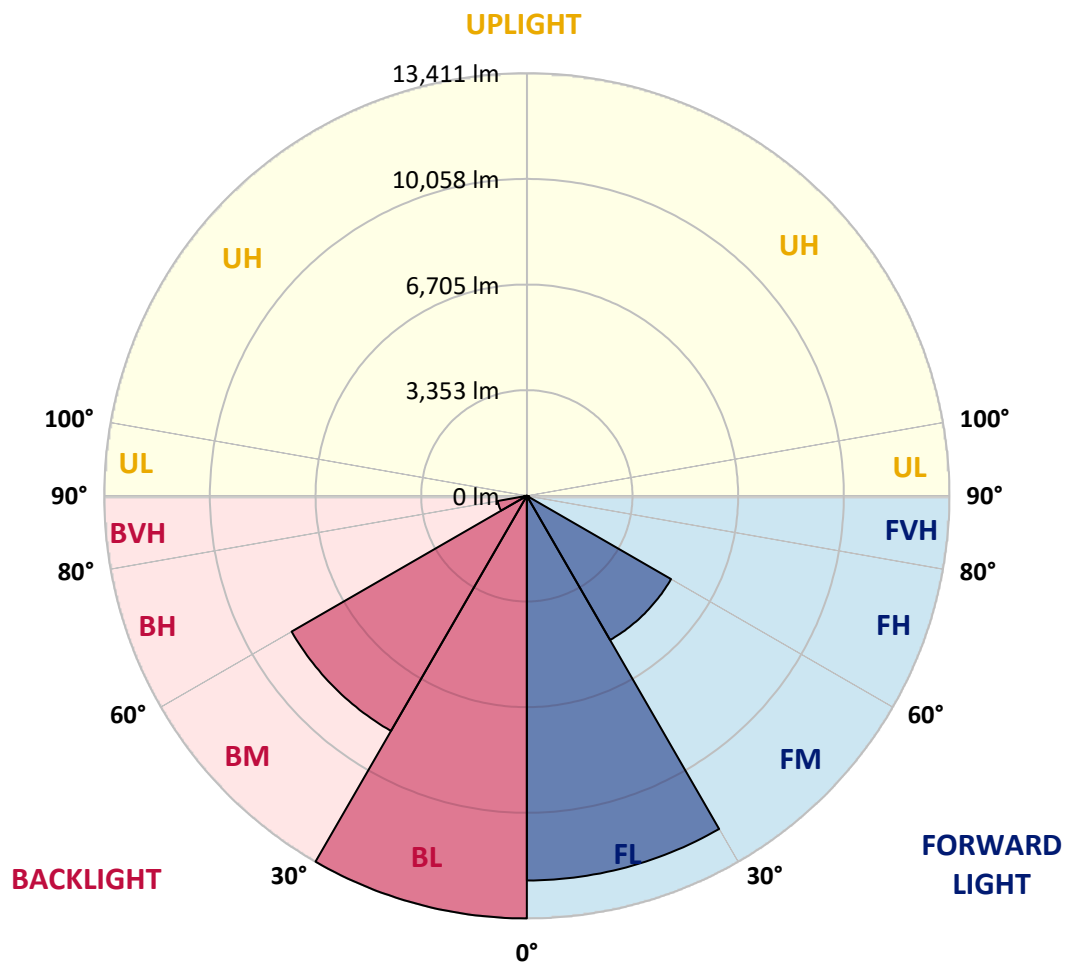
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	12205.2	30.0			
FM	(30°-60°)	5283.8	13.0			
FH	(60°-80°)	76.5	0.2			G0/660
FVH	(80°-90°)	8.6	0.0			G0/10
BL	(0°-30°)	13410.5	33.0	B5		
BM	(30°-60°)	8618.2	21.2	B5		
BH	(60°-80°)	941.0	2.3	B2/1000		G2/1000
BVH	(80°-90°)	84.2	0.2			G1/100
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



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	48540.8	48540.8	48540.8	48540.8	48540.8	48540.8	48540.8	48540.8	48540.8	48540.8
2.5°	48546.0	48347.7	48065.9	48039.8	48185.9	48504.2	48300.7	48311.1	48185.9	48399.9
5°	47784.0	47596.2	47403.1	47147.3	47361.3	47497.0	47392.6	47277.8	47116.0	47324.8
7.5°	46343.6	46239.2	45952.2	45837.4	45967.9	46119.2	45894.8	45863.5	45639.1	45910.5
10°	44141.3	44099.5	43817.7	43749.8	43864.7	44094.3	43995.1	43974.3	43833.3	43807.2
12.5°	41855.4	41693.6	41343.9	41323.1	41495.3	41839.7	41573.6	41317.8	41396.1	41464.0
15°	35968.5	35796.3	36662.6	38024.7	38739.7	38713.6	38791.9	38484.0	38390.1	38421.4
17.5°	28594.2	28302.0	28615.1	30723.5	34121.0	36093.7	35551.0	34888.2	34533.3	34298.5
20°	24680.1	24695.7	24638.3	25181.1	27299.9	31798.6	31668.1	30389.5	29925.0	29731.9
22.5°	22300.3	22211.5	22086.3	22258.5	22827.4	25468.1	27237.3	26063.1	25901.3	25687.3
25°	19967.4	19967.4	19816.1	19988.3	20150.1	20186.6	21961.0	22441.2	22128.0	22128.0
27.5°	17947.7	17843.3	17775.5	17853.8	17639.8	16611.7	16836.1	19294.2	19080.2	18949.7
30°	15943.7	15912.4	15797.5	15901.9	15108.6	13950.1	13480.4	16282.9	16507.3	16460.3
32.5°	13162.0	13287.3	13798.7	13960.5	12603.6	11669.4	11220.6	13516.9	14414.5	14378.0
35°	8945.2	9049.5	9634.0	11565.0	10448.2	9780.2	9649.7	10750.9	12227.8	12368.7
37.5°	7123.8	7108.1	7275.1	7619.6	8397.2	8235.4	8198.9	8485.9	9973.3	10035.9
40°	5871.2	5850.4	5845.1	5563.3	5370.2	6847.2	6748.0	6575.8	7864.8	7990.1
42.5°	4733.5	4754.4	4770.1	4154.2	3872.4	5281.5	5224.1	5046.7	6168.7	6314.8
45°	3715.8	3710.6	3741.9	3094.8	3016.5	3376.6	3903.7	3762.8	4655.2	4811.8
47.5°	1925.8	1993.6	2416.3	2395.5	2432.0	2395.5	2953.9	2917.4	3501.9	3752.4
50°	1294.3	1315.2	1351.7	1356.9	1915.3	1764.0	2004.0	2270.2	2452.9	2839.1
52.5°	1002.0	1017.7	923.7	866.3	1174.2	1304.7	1315.2	1570.9	1711.8	2103.2
55°	558.4	626.3	673.2	678.5	647.1	965.5	960.3	1163.8	1273.4	1534.3
57.5°	73.1	88.7	135.7	438.4	433.2	537.5	673.2	845.5	908.1	1122.1
60°	5.2	10.4	15.7	67.8	287.0	313.1	459.3	527.1	631.5	788.1
62.5°	0.0	0.0	5.2	15.7	57.4	182.7	240.1	276.6	370.5	516.7
65°	0.0	0.0	5.2	10.4	20.9	67.8	93.9	151.3	219.2	318.4
67.5°	0.0	0.0	5.2	10.4	15.7	26.1	41.8	67.8	114.8	193.1
70°	0.0	0.0	5.2	10.4	15.7	20.9	31.3	41.8	62.6	104.4
72.5°	0.0	0.0	5.2	5.2	10.4	26.1	26.1	31.3	41.8	57.4
75°	0.0	0.0	5.2	10.4	15.7	26.1	26.1	26.1	31.3	36.5
77.5°	0.0	0.0	5.2	10.4	15.7	26.1	20.9	26.1	26.1	26.1
80°	0.0	0.0	5.2	10.4	15.7	26.1	31.3	26.1	20.9	20.9
82.5°	0.0	0.0	5.2	15.7	15.7	36.5	36.5	36.5	15.7	15.7
85°	0.0	0.0	10.4	15.7	26.1	41.8	41.8	31.3	15.7	10.4
87.5°	0.0	0.0	5.2	10.4	10.4	20.9	31.3	26.1	10.4	5.2
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°
48540.8	0°	48540.8	48540.8	48540.8	48540.8	48540.8	48540.8	48540.8	48540.8	48540.8
48086.7	2.5°	48472.9	48342.5	48587.7	48619.1	48514.7	48384.2	48081.5	48055.4	47528.3
47022.1	5°	47554.4	47340.4	47497.0	47601.4	47564.8	47423.9	47298.7	47183.9	46708.9
45294.6	7.5°	45842.6	45764.3	45837.4	45915.7	46067.0	45915.7	45863.5	45743.5	45273.8
43593.3	10°	43942.9	43796.8	44073.4	44036.9	43995.1	43953.4	43734.2	43755.1	43201.9
41276.1	12.5°	41610.1	41364.8	41631.0	41662.3	41631.0	41484.8	41239.6	41343.9	40837.7
38144.8	15°	38473.6	38447.5	38640.6	38765.8	38854.5	38698.0	38614.5	38666.7	38364.0
34115.8	17.5°	34622.0	34961.3	35592.7	35806.7	35811.9	35973.7	35926.7	35864.1	35639.7
29653.7	20°	30092.0	30744.4	31715.1	32711.9	32999.0	32863.3	32800.6	32915.5	32581.4
25462.9	22.5°	25911.7	26470.1	27597.4	29053.5	29893.7	29977.2	29961.6	29862.4	29731.9
22107.2	25°	22362.9	22858.7	23939.0	25269.8	26882.4	27122.5	27132.9	27101.6	26986.8
19064.6	27.5°	19367.2	19967.4	20562.4	21752.3	23469.3	24460.9	24335.6	24299.1	24257.3
16496.9	30°	16653.4	17410.2	17968.6	18709.7	20249.2	21590.5	21721.0	21658.3	21559.2
14372.8	32.5°	14503.3	14952.1	15661.8	16162.9	17269.3	18788.0	19289.0	19242.0	19153.3
12457.5	35°	12634.9	12812.3	13370.8	13929.2	14665.0	16136.8	16877.8	16773.5	16757.8
10150.7	37.5°	10406.4	11001.4	11309.3	11872.9	12389.6	13532.5	14555.4	14508.5	14513.7
8162.3	40°	8402.4	8746.8	9357.4	9832.4	10307.3	11142.3	12280.0	12311.3	12300.9
6320.1	42.5°	6450.5	6784.5	7426.5	7943.1	8365.9	8882.5	9968.1	10004.6	10051.6
4921.4	45°	5036.2	5250.2	5719.9	6257.4	6706.3	7019.4	7844.0	8078.8	8084.0
3815.0	47.5°	3908.9	4154.2	4488.2	5004.9	5443.3	5667.7	6267.9	6586.2	6570.6
2927.8	50°	3068.7	3293.1	3564.5	3971.6	4446.5	4623.9	5067.5	5380.7	5365.0
2207.6	52.5°	2348.5	2635.5	2875.6	3188.7	3653.2	3804.6	4122.9	4483.0	4430.8
1617.9	55°	1779.6	2071.9	2296.3	2557.2	2980.0	3173.1	3392.3	3679.3	3689.7
1252.5	57.5°	1341.3	1643.9	1847.5	2113.6	2432.0	2646.0	2813.0	3120.9	3115.7
855.9	60°	960.3	1221.2	1466.5	1743.1	1988.4	2233.7	2348.5	2640.8	2651.2
605.4	62.5°	694.1	939.4	1174.2	1414.3	1633.5	1873.6	1978.0	2207.6	2238.9
396.6	65°	485.4	657.6	929.0	1111.6	1356.9	1534.3	1670.0	1868.4	1904.9
234.8	67.5°	313.1	474.9	735.9	897.6	1122.1	1273.4	1414.3	1570.9	1617.9
151.3	70°	187.9	360.1	548.0	720.2	923.7	1059.4	1195.1	1330.8	1356.9
73.1	72.5°	120.0	250.5	396.6	584.5	741.1	887.2	1007.2	1106.4	1028.1
47.0	75°	67.8	172.2	313.1	459.3	600.2	741.1	840.2	892.4	715.0
31.3	77.5°	41.8	125.3	255.7	370.5	464.5	595.0	657.6	688.9	511.4
20.9	80°	26.1	93.9	214.0	302.7	302.7	438.4	511.4	537.5	370.5
15.7	82.5°	20.9	67.8	167.0	229.6	203.5	328.8	401.9	407.1	260.9
10.4	85°	15.7	52.2	104.4	151.3	140.9	229.6	234.8	260.9	172.2
10.4	87.5°	10.4	31.3	62.6	88.7	78.3	109.6	125.3	140.9	93.9
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

180°
48540.8
47116.0
46328.0
45174.6
43014.0
40691.6
37998.6
35305.7
32341.4
29481.4
26600.6
24012.0
21433.9
18918.4
16585.6
14346.7
12118.2
9895.0
7948.3
6513.2
5365.0
4436.0
3689.7
3105.2
2625.1
2228.5
1894.5
1612.6
1336.0
955.1
678.5
480.1
344.4
240.1
156.6
83.5
0.0

(END OF REPORT)