

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: P638871

Luminaire Tested: **EPH-VN-04-E-935-U-LAM-VI**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-08
Report Number: P638871
Test Lab: INNOVATION CENTER(G2)
Issue Date: 11/2/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHESUS
Catalog Number: EPH-VN-04-E-935-U-LAM-VI
Description: EPHESUS LUMAVISION FLOOD – Middle Tier Light Square Luminaire w/
Lambertian distribution lens and Visor
Light Source: (64) 3500K CCT, 90 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17116.3 lumens
Efficiency: N/A
Efficacy: 56.3 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B4 - U0 - G2

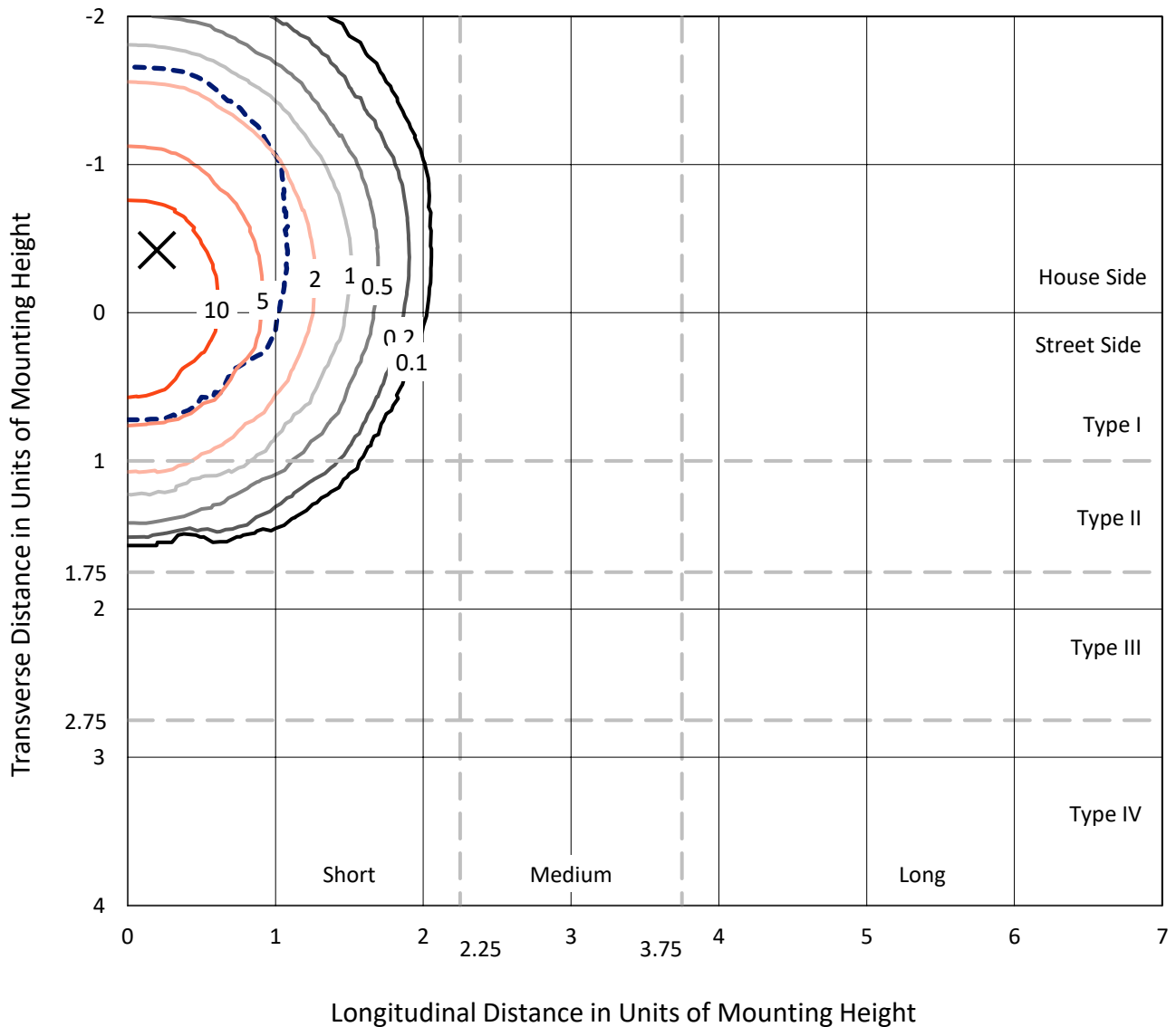
Input Watts (W): 303.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

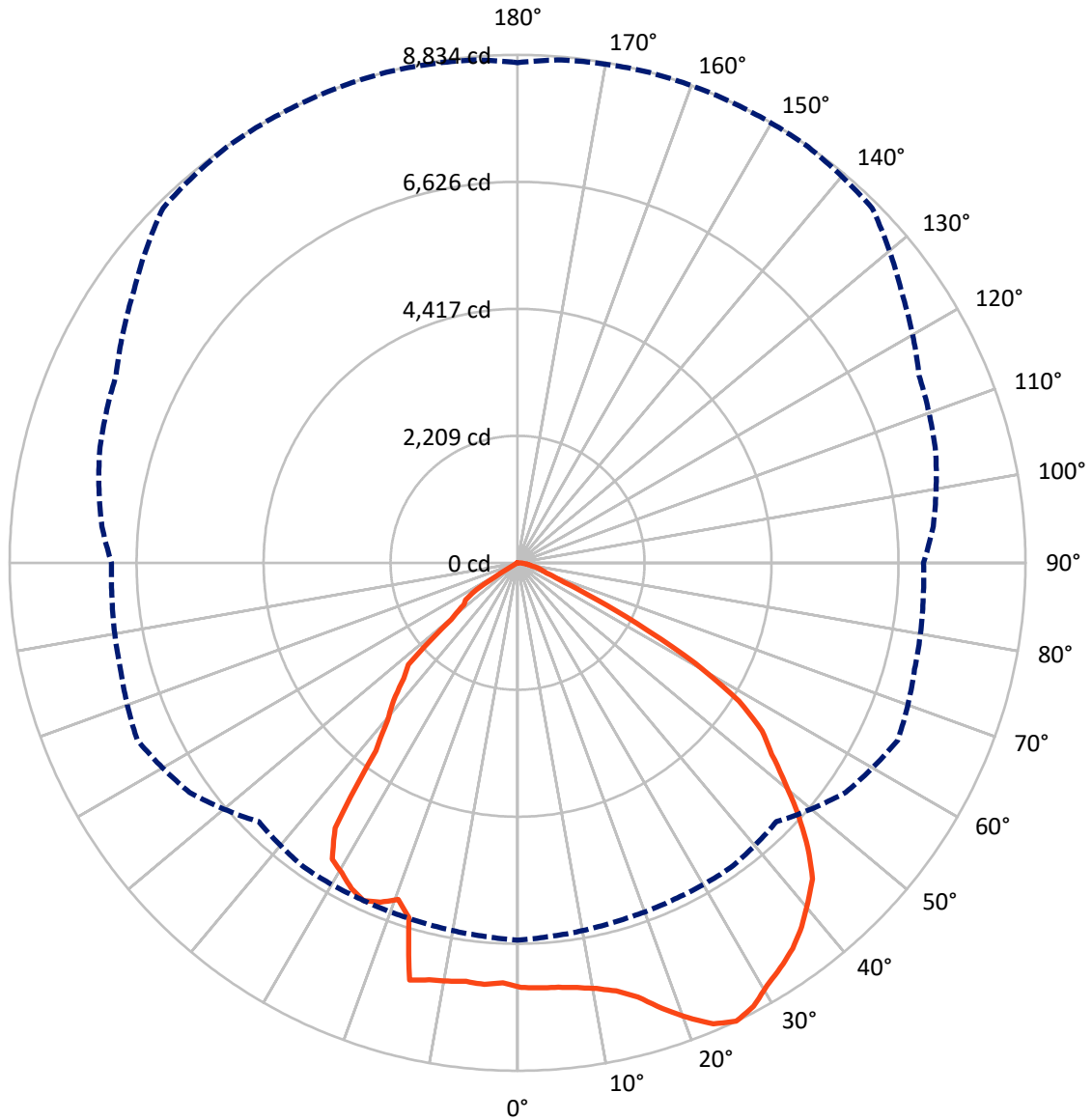
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 18.5 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 155-Deg Lateral - - - Horizontal Cone Through 25-Deg Vertical

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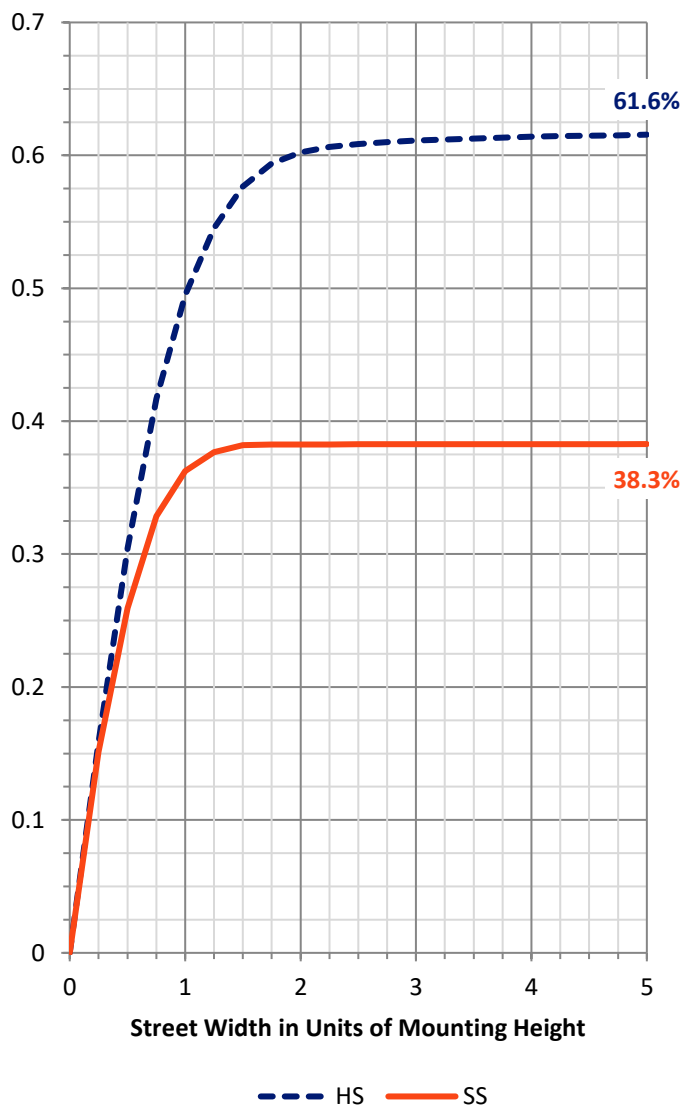
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10596.8	0.0	10596.8
	% Fixture	61.9	0.0	61.9
Street Side	Lumens	6519.6	0.0	6519.6
	% Fixture	38.1	0.0	38.1
Total	Lumens	17116.3	0.0	17116.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	708.5	4.1
10°-20°	2163.5	12.6
20°-30°	3420.3	20.0
30°-40°	3863.5	22.6
40°-50°	3618.3	21.1
50°-60°	2494.5	14.6
60°-70°	670.2	3.9
70°-80°	139.7	0.8
80°-90°	37.8	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°	17116.3	100.0
0°-180°	17116.3	100.0

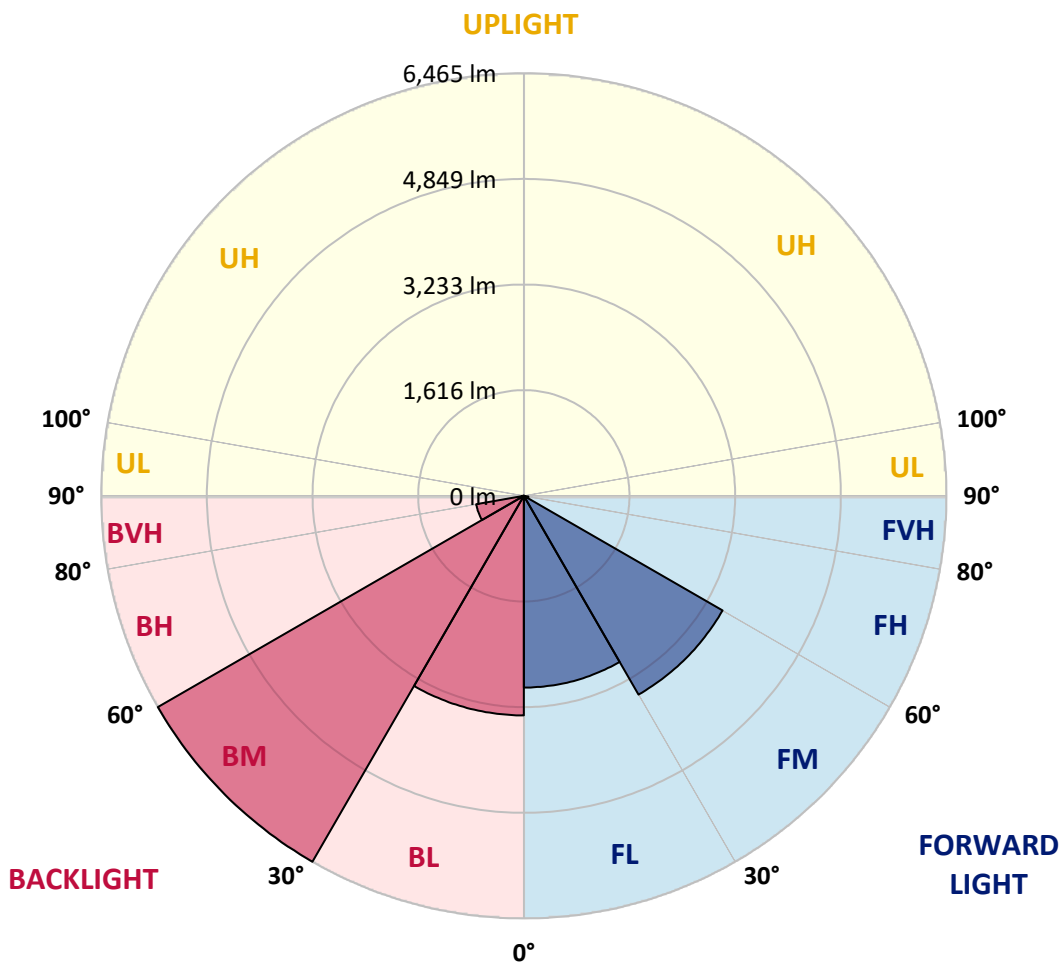


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2933.2	17.1			
FM (30°-60°)	3510.9	20.5			
FH (60°-80°)	70.4	0.4			G0/660
FVH (80°-90°)	5.1	0.0			G0/10
BL (0°-30°)	3359.1	19.6	B4/5000		
BM (30°-60°)	6465.4	37.8	B4/8500		
BH (60°-80°)	739.5	4.3	B2/1000		G2/1000
BVH (80°-90°)	32.7	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G2
 Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	7385.4	7385.4	7385.4	7385.4	7385.4	7385.4	7385.4	7385.4	7385.4	7385.4
2.5°	7418.1	7370.3	7325.0	7309.9	7372.8	7440.7	7398.0	7400.5	7385.4	7413.1
5°	7473.4	7408.0	7377.8	7355.2	7365.3	7435.7	7375.3	7398.0	7372.8	7405.5
7.5°	7453.3	7408.0	7377.8	7335.1	7367.8	7450.8	7392.9	7395.5	7382.9	7413.1
10°	7440.7	7408.0	7370.3	7375.3	7413.1	7483.5	7438.2	7463.4	7445.8	7463.4
12.5°	7470.9	7435.7	7415.6	7415.6	7448.3	7528.8	7506.1	7528.8	7521.2	7536.3
15°	7186.7	7219.4	7410.5	7496.1	7561.5	7642.0	7631.9	7654.5	7659.6	7682.2
17.5°	6062.3	6029.6	6014.5	6454.7	7624.4	7873.4	7865.8	7863.3	7838.2	7820.6
20°	6210.7	6198.1	6180.5	6213.2	6344.0	7994.1	8044.4	7735.0	7644.5	7636.9
22.5°	6447.1	6427.0	6361.6	6364.1	6404.4	6950.2	7795.4	7513.7	7483.5	7465.9
25°	6562.8	6522.6	6469.8	6454.7	6467.2	6366.6	6962.8	7297.4	7148.9	7081.0
27.5°	6359.1	6361.6	6318.8	6359.1	6311.3	5858.5	5604.4	6874.8	6869.7	6839.5
30°	6205.6	6198.1	6147.8	6198.1	5868.6	5363.0	5254.8	6411.9	6359.1	6318.8
32.5°	5735.3	5740.3	5886.2	6082.4	5541.6	5141.6	4814.6	5727.7	6228.3	6205.6
35°	4102.7	4112.8	4631.0	5599.4	5046.0	4701.4	4676.2	4950.4	6022.0	6032.1
37.5°	3949.3	3949.3	3936.7	4095.2	4656.1	4522.8	4573.1	4545.4	5516.4	5541.6
40°	3838.6	3816.0	3798.3	3549.3	3237.4	4397.0	4432.2	4306.5	5214.6	5219.6
42.5°	3705.3	3680.1	3685.2	3224.8	2897.8	4085.1	3987.0	3818.5	4711.5	4716.5
45°	3461.3	3504.0	3534.2	2822.3	2797.2	2917.9	3677.6	3572.0	4371.9	4464.9
47.5°	1760.8	1798.6	2759.5	2596.0	2653.8	2593.4	3106.6	3109.1	3637.4	3946.8
50°	1597.3	1587.3	1589.8	1514.3	2450.1	2097.9	2246.3	2850.0	2912.9	3355.6
52.5°	1489.2	1486.6	1333.2	1184.8	1539.5	1846.3	1630.0	2062.7	2165.8	2842.5
55°	1101.8	1182.3	1051.5	1114.3	963.4	1479.1	1471.5	1861.4	1896.7	2279.0
57.5°	10.1	12.6	30.2	847.7	666.6	739.5	1016.2	1270.3	1333.2	1775.9
60°	2.5	5.0	12.6	25.2	432.7	455.3	679.2	734.5	827.6	1059.0
62.5°	0.0	0.0	5.0	12.6	22.6	186.1	216.3	236.5	364.7	540.8
65°	0.0	0.0	2.5	7.5	12.6	30.2	52.8	110.7	158.5	196.2
67.5°	0.0	0.0	2.5	5.0	10.1	15.1	30.2	42.8	67.9	115.7
70°	0.0	0.0	2.5	5.0	7.5	12.6	20.1	30.2	40.2	57.9
72.5°	0.0	0.0	2.5	5.0	5.0	15.1	15.1	22.6	30.2	37.7
75°	0.0	0.0	2.5	2.5	5.0	10.1	15.1	17.6	20.1	30.2
77.5°	0.0	0.0	2.5	5.0	7.5	10.1	12.6	20.1	17.6	17.6
80°	0.0	0.0	2.5	7.5	7.5	12.6	15.1	20.1	12.6	12.6
82.5°	0.0	0.0	2.5	10.1	7.5	25.2	25.2	27.7	10.1	10.1
85°	0.0	0.0	7.5	5.0	15.1	25.2	22.6	15.1	12.6	7.5
87.5°	0.0	0.0	2.5	2.5	5.0	7.5	17.6	15.1	5.0	5.0
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°
7385.4	0°	7385.4	7385.4	7385.4	7385.4	7385.4	7385.4	7385.4	7385.4	7385.4
7340.1	2.5°	7440.7	7408.0	7475.9	7468.4	7435.7	7420.6	7403.0	7387.9	7277.2
7345.1	5°	7443.2	7392.9	7475.9	7460.9	7455.8	7430.7	7415.6	7438.2	7337.6
7365.3	7.5°	7443.2	7392.9	7483.5	7488.5	7481.0	7460.9	7458.3	7473.4	7390.4
7400.5	10°	7493.6	7473.4	7548.9	7556.4	7546.4	7541.4	7528.8	7518.7	7430.7
7521.2	12.5°	7599.2	7559.0	7644.5	7667.1	7659.6	7672.2	7642.0	7657.1	7566.5
7644.5	15°	7727.5	7730.0	7795.4	7845.7	7840.7	7880.9	7835.7	7875.9	7810.5
7785.4	17.5°	7923.7	7951.4	8044.4	8119.9	8147.6	8177.8	8147.6	8160.2	8067.1
7629.4	20°	7717.4	7820.6	8268.3	8406.7	8464.5	8492.2	8441.9	8457.0	8363.9
7438.2	22.5°	7531.3	7664.6	8062.1	8494.7	8673.3	8728.6	8711.0	8708.5	8673.3
7060.9	25°	7257.1	7526.3	7704.9	8162.7	8723.6	8824.2	8834.3	8831.8	8779.0
6829.5	27.5°	6920.0	6980.4	7443.2	7722.5	8371.5	8753.8	8738.7	8665.8	8595.3
6349.0	30°	6489.9	6764.1	6972.9	7418.1	7916.2	8537.5	8537.5	8482.1	8409.2
6178.0	32.5°	6271.0	6625.7	6819.4	6980.4	7405.5	8296.0	8396.6	8338.8	8280.9
6044.7	35°	6155.3	6208.2	6660.9	6806.8	7166.5	7830.6	8238.1	8180.3	8137.5
5690.0	37.5°	5901.3	6024.5	6235.8	6625.7	6736.4	7450.8	8026.8	7996.6	7946.3
5229.6	40°	5335.3	5664.8	5989.3	6359.1	6474.8	6962.8	7770.3	7782.8	7714.9
4739.1	42.5°	5000.7	5224.6	5732.7	5981.8	6293.7	6648.4	7521.2	7541.4	7493.6
4490.1	45°	4608.3	4857.4	5214.6	5667.3	6092.4	6215.7	7081.0	7292.3	7252.1
3994.6	47.5°	4248.6	4449.9	4887.5	5345.4	5815.7	5798.1	6575.4	6972.9	6917.5
3614.7	50°	3738.0	4090.1	4296.4	4716.5	5418.3	5466.1	6037.1	6598.1	6552.8
3071.4	52.5°	3151.9	3594.6	3989.5	4374.4	5015.8	5129.0	5536.5	6215.7	6185.5
2346.9	55°	2754.4	3076.4	3521.6	3831.0	4527.8	4829.7	5161.7	5851.0	5835.9
1929.4	57.5°	1959.5	2580.9	2948.1	3380.8	3748.0	4293.9	4540.4	5108.9	4968.0
1069.1	60°	1328.2	1620.0	2067.7	2533.1	2779.6	3325.4	3554.3	4009.6	3971.9
638.9	62.5°	701.8	971.0	1290.4	1524.4	1703.0	2233.7	2329.3	2819.8	2807.3
256.6	65°	309.4	410.0	699.3	820.0	1003.7	1250.2	1333.2	1509.3	1466.5
125.8	67.5°	161.0	244.0	394.9	485.5	611.3	704.3	772.2	827.6	862.8
83.0	70°	98.1	178.6	244.0	337.1	420.1	495.5	548.4	623.8	669.1
42.8	72.5°	72.9	113.2	168.5	259.1	304.4	392.4	445.2	500.6	540.8
35.2	75°	40.2	75.5	135.8	203.8	244.0	319.5	367.3	405.0	417.6
20.1	77.5°	25.2	57.9	113.2	158.5	191.2	259.1	246.5	281.7	311.9
15.1	80°	17.6	42.8	88.0	130.8	133.3	166.0	196.2	226.4	246.5
10.1	82.5°	12.6	35.2	65.4	100.6	88.0	128.3	153.4	176.1	128.3
7.5	85°	10.1	25.2	32.7	60.4	50.3	90.6	78.0	75.5	50.3
5.0	87.5°	7.5	12.6	22.6	27.7	20.1	20.1	25.2	30.2	25.2
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
7385.4
7201.8
7252.1
7294.8
7357.7
7486.0
7702.3
7986.6
8298.5
8560.1
8698.5
8540.0
8381.5
8233.1
8077.1
7896.0
7699.8
7488.5
7257.1
6957.8
6560.3
6205.6
5853.5
4952.9
3974.4
2809.8
1448.9
862.8
671.6
548.4
410.0
316.9
249.0
93.1
50.3
25.2
0.0

(END OF REPORT)