

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: P977449

Luminaire Tested: **EPH-VN-08-E-740-U-T3R**

Issue Date: 03/26/2025

Test Information

Test Method: LM-79-08
Report Number: P977449
Test Lab: INNOVATION CENTER(G2)
Issue Date: 03/26/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHESUS
Catalog Number: EPH-VN-08-E-740-U-T3R
Description: EPHESUS LUMAVISION – Middle Tier Light Square Luminaire w/ T3R
distribution lens
Light Source: (128) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 66332.1 lumens
Efficiency: N/A
Efficacy: 105.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B4 - U0 - G5

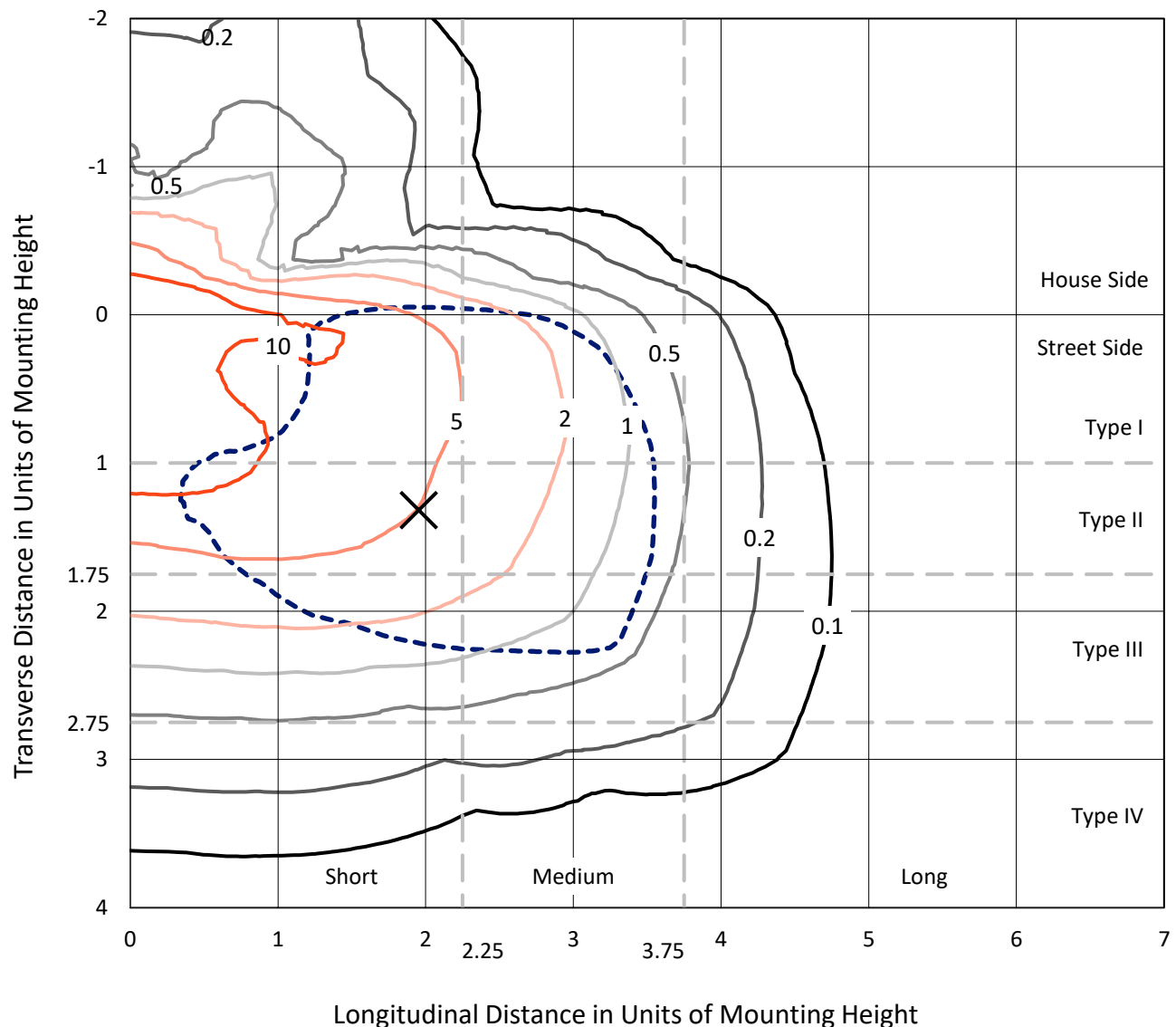
Input Watts (W): 626.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT

REPORT NUMBER: P977449

CATALOG NUMBER: EPH-VN-08-E-740-U-T3R

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

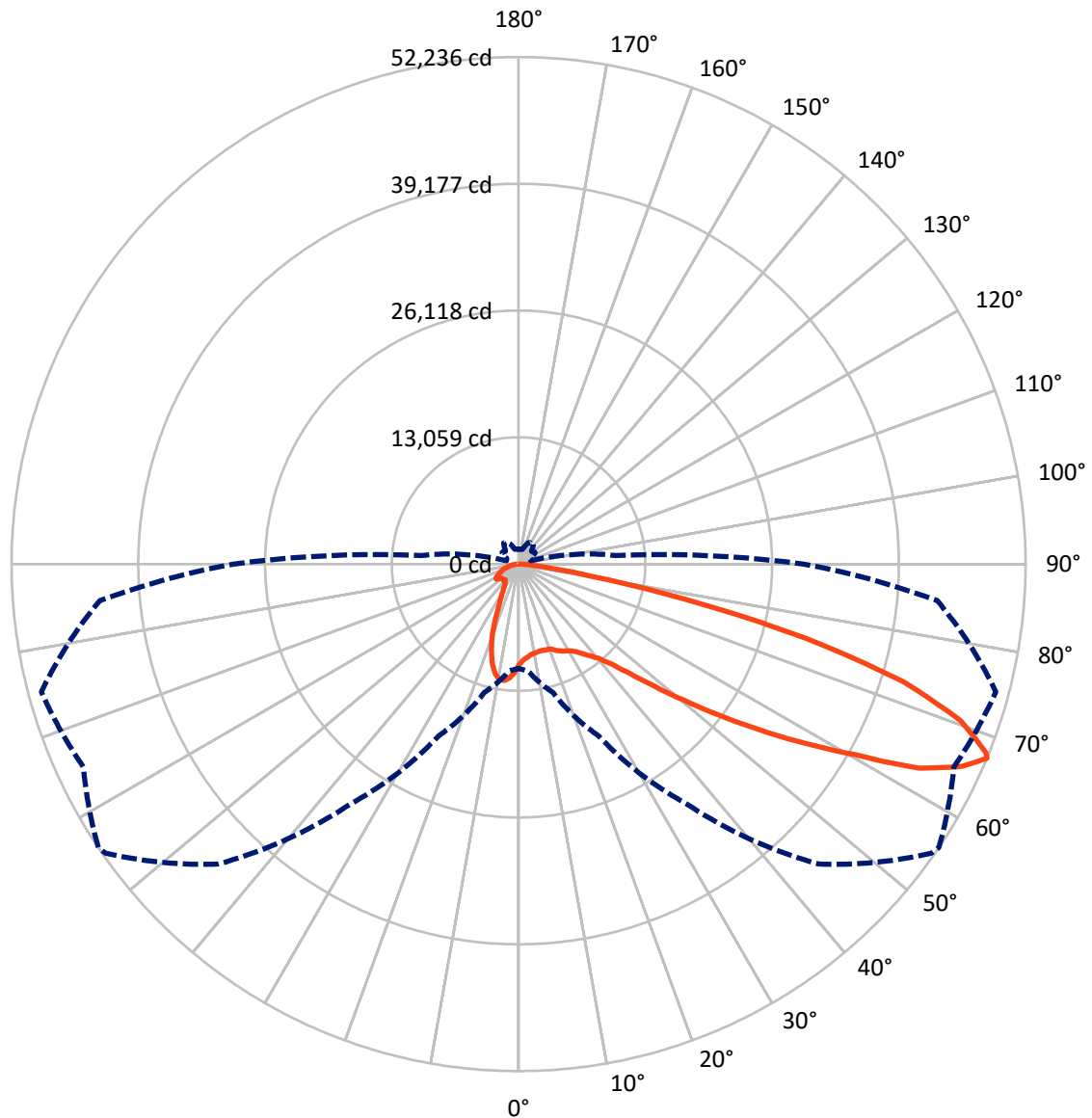


Based on 25 foot mounting height. Maximum calculated value = 18.4 fc
Type III - Short - N/A

REPORT NUMBER: P977449

CATALOG NUMBER: EPH-VN-08-E-740-U-T3R

Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral - - - Horizontal Cone Through 67-Deg Vertical

REPORT NUMBER: P977449

CATALOG NUMBER: EPH-VN-08-E-740-U-T3R

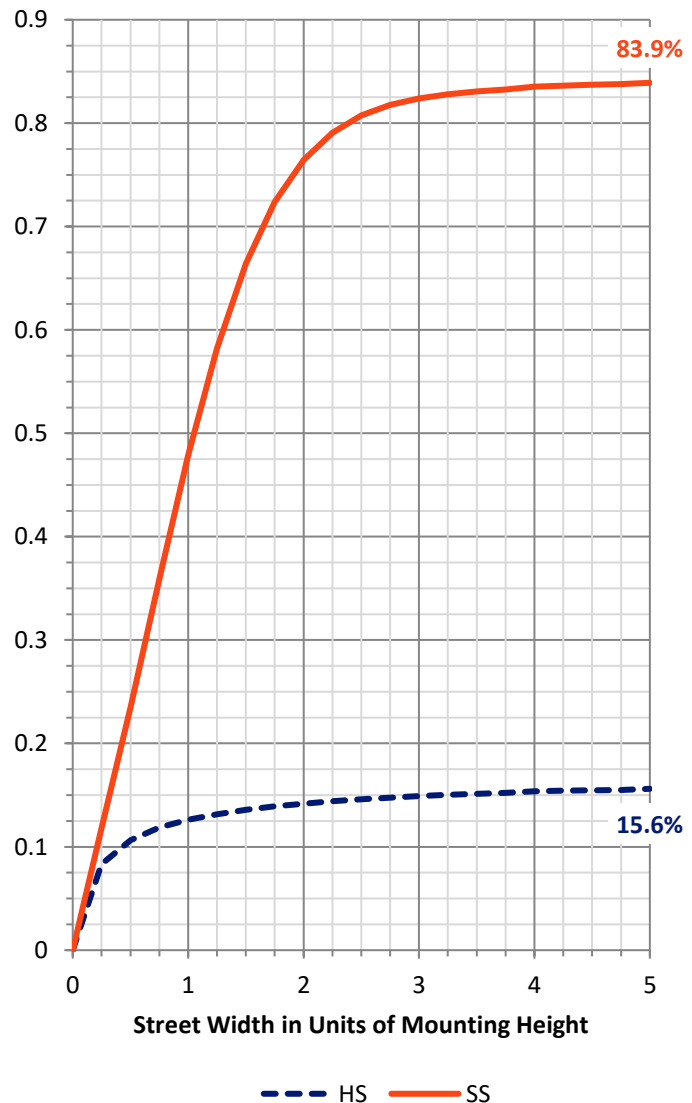
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10501.1	0.0	10501.1
	% Fixture	15.8	0.0	15.8
Street Side	Lumens	55831.1	0.0	55831.1
	% Fixture	84.2	0.0	84.2
Total	Lumens	66332.1	0.0	66332.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	994.3	1.5
10°-20°	2712.6	4.1
20°-30°	4254.2	6.4
30°-40°	6072.9	9.2
40°-50°	9165.7	13.8
50°-60°	14590.2	22.0
60°-70°	18652.4	28.1
70°-80°	9094.3	13.7
80°-90°	795.6	1.2
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°	66332.1	100.0
0°-180°	66332.1	100.0

Coefficient of Utilization



REPORT NUMBER: P977449

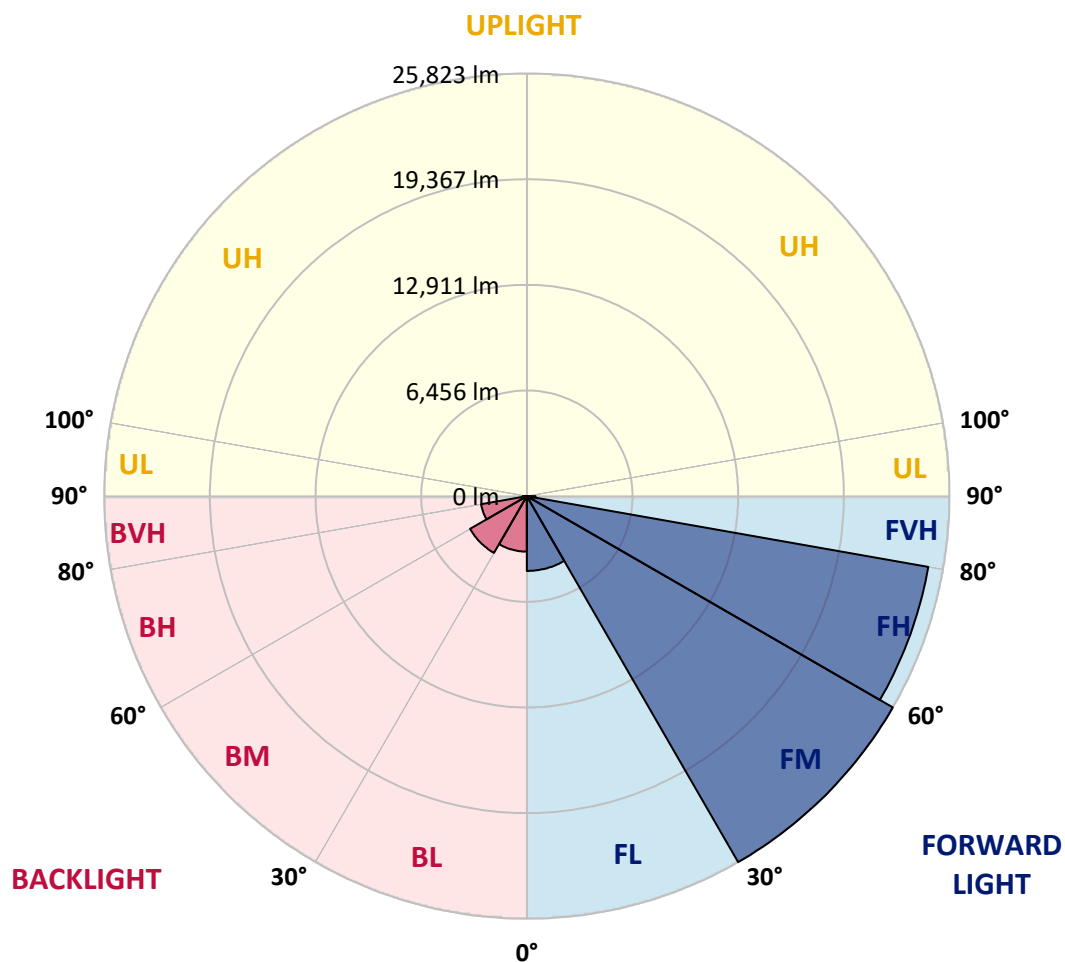
CATALOG NUMBER: EPH-VN-08-E-740-U-T3R

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4571.0	6.9			
FM	(30°-60°)	25822.5	38.9			
FH	(60°-80°)	24909.2	37.6			G5
FVH	(80°-90°)	528.4	0.8			G4/750
BL	(0°-30°)	3390.0	5.1	B4/5000		
BM	(30°-60°)	4006.3	6.0	B3/5000		
BH	(60°-80°)	2837.6	4.3	B4/5000		G4/5000
BVH	(80°-90°)	267.2	0.4			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type III Short



REPORT NUMBER: P977449

CATALOG NUMBER: EPH-VN-08-E-740-U-T3R

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	10321.1	10321.1	10321.1	10321.1	10321.1	10321.1	10321.1	10321.1	10321.1	10321.1	10321.1
2.5°	9481.1	9442.2	9488.9	9442.2	9652.2	9776.7	9815.5	9870.0	10064.4	10251.1	10414.4
5°	9084.4	8913.3	9100.0	9162.2	9177.8	9387.8	9605.5	9644.4	9745.5	10048.9	10546.7
7.5°	8423.3	8617.8	8547.8	8734.4	8928.9	9138.9	9496.7	9395.5	9768.9	10056.7	10787.8
10°	8283.3	8298.9	8376.7	8446.7	8617.8	8890.0	9387.8	9325.5	9706.7	10321.1	10990.0
12.5°	8423.3	8423.3	8400.0	8345.5	8540.0	8804.4	9201.1	9232.2	9831.1	10398.9	11301.1
15°	8913.3	9006.7	8757.8	8796.7	8718.9	8804.4	9154.4	9224.4	9877.8	10461.1	11487.8
17.5°	10111.1	10080.0	9784.4	9372.2	9030.0	8975.5	9216.7	9294.4	9831.1	10640.0	11721.1
20°	11277.8	11215.5	10702.2	10274.4	9597.8	9278.9	9317.8	9325.5	9908.9	10756.7	12094.4
22.5°	12576.7	12740.0	12180.0	11308.9	10468.9	9675.5	9520.0	9644.4	10087.8	10818.9	12133.3
25°	14614.4	14264.4	13782.2	12638.9	11285.5	10290.0	9854.4	9916.7	10258.9	10974.4	12226.7
27.5°	16084.4	15944.4	15190.0	14264.4	12428.9	10772.2	10033.3	10150.0	10570.0	10966.7	12358.9
30°	17500.0	17500.0	17041.1	15656.7	13634.4	11581.1	10414.4	10360.0	10422.2	10951.1	12638.9
32.5°	19156.6	18931.1	18270.0	17352.2	15151.1	12320.0	10717.8	10733.3	10733.3	11238.9	12918.9
35°	20027.8	20393.3	19950.0	18456.6	16310.0	13548.9	11448.9	11332.2	11246.7	11557.8	13276.7
37.5°	21303.3	21521.1	21054.4	20175.5	17748.9	14544.4	12094.4	12001.1	11503.3	11806.7	14186.7
40°	22073.3	22034.4	22018.9	21614.4	19654.4	15718.9	13043.3	12802.2	12133.3	12685.5	15314.4
42.5°	22508.9	22431.1	23387.8	23138.9	21451.1	17445.5	14233.3	14101.1	13362.2	14248.9	17056.7
45°	22998.9	23574.4	24360.0	25060.0	23543.3	19872.2	16247.8	16061.1	15400.0	16527.8	19382.2
47.5°	23426.6	24134.4	25137.8	25884.4	25433.3	22508.9	18736.6	18783.3	18347.8	19506.6	22298.9
50°	24142.2	24212.2	25573.3	27082.2	27432.2	24943.3	22081.1	22003.3	21808.9	23434.4	25472.2
52.5°	23924.4	24134.4	25853.3	27782.2	28357.8	27517.8	25674.4	25907.8	25651.1	27696.6	29112.2
55°	20377.8	21007.8	25682.2	28521.1	30551.1	30426.6	30294.4	30138.9	30123.3	32487.7	33747.7
57.5°	18767.8	19281.1	22625.5	29337.7	32900.0	33817.7	34673.3	34844.4	34836.6	37691.1	38188.9
60°	17710.0	18238.9	21388.9	28894.4	34898.9	38258.9	39900.0	39923.3	39876.6	43252.2	41642.2
62.5°	15641.1	16154.4	19250.0	26467.8	35451.1	42357.7	46013.3	46316.6	44177.7	48043.3	43781.1
65°	13152.2	13572.2	16302.2	22757.8	33981.1	44963.3	50610.0	50252.2	47802.2	50781.1	44387.7
67°	10756.7	11036.7	13696.7	19537.8	30138.9	43711.1	51940.0	52235.5	49474.4	50897.7	43298.8
67.5°	10072.2	10328.9	12841.1	18441.1	28676.6	42762.2	51986.6	51940.0	49505.5	50921.1	42731.1
70°	6992.2	7101.1	8750.0	12685.5	21124.4	36127.7	48191.1	48300.0	47428.8	48160.0	37714.4
72.5°	4635.6	4798.9	5848.9	7995.5	12452.2	26288.9	40281.1	41447.7	40895.5	39487.7	27704.4
75°	2986.7	3080.0	3826.7	4760.0	6128.9	14972.2	29757.7	30535.5	29267.7	24422.2	15516.7
77.5°	1672.2	1773.3	2310.0	2893.3	2986.7	6230.0	16714.4	17678.9	14980.0	10375.5	6198.9
80°	1042.2	1174.4	1742.2	1718.9	1423.3	2286.7	6891.1	7381.1	5988.9	3570.0	2068.9
82.5°	785.6	886.7	1345.6	1205.6	801.1	1018.9	2582.2	2768.9	2193.3	1376.7	910.0
85°	536.7	676.7	972.2	746.7	420.0	490.0	1026.7	1104.4	1003.3	668.9	365.6
87.5°	194.4	287.8	505.6	373.3	186.7	147.8	334.4	373.3	357.8	303.3	163.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P977449

CATALOG NUMBER: EPH-VN-08-E-740-U-T3R

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	10321.1	10321.1	10321.1	10321.1	10321.1	10321.1	10321.1	10321.1	10321.1	10321.1	10321.1
2.5°	10562.2	10671.1	10725.5	11044.4	11176.7	11153.3	11184.4	11231.1	11277.8	11340.0	11402.2
5°	10647.8	10982.2	11161.1	11534.4	11783.3	11674.4	11814.4	11775.5	11721.1	11713.3	11783.3
7.5°	10927.8	11355.5	11892.2	11993.3	12102.2	11830.0	11596.7	11277.8	11200.0	10927.8	11021.1
10°	11425.5	11775.5	12428.9	12467.8	11985.5	11285.5	10764.4	10103.3	10095.5	9698.9	9683.3
12.5°	11900.0	12296.7	12825.5	12600.0	11448.9	10492.2	9644.4	8921.1	8617.8	8415.5	8368.9
15°	12195.5	12848.9	13128.9	12156.7	10507.8	9216.7	8120.0	7342.2	7031.1	6883.3	6852.2
17.5°	12467.8	13377.8	13253.3	11378.9	9348.9	7902.2	6595.5	5918.9	5833.3	5724.4	5778.9
20°	12841.1	13572.2	12810.0	10367.8	8034.4	6206.7	5374.4	5047.8	5125.6	5172.2	5117.8
22.5°	13191.1	13673.3	12250.0	9263.3	6346.7	4915.6	4503.3	4573.3	4690.0	4845.6	4760.0
25°	13346.7	13836.7	11495.5	7738.9	4830.0	4137.8	4044.4	4161.1	4355.6	4363.3	4441.1
27.5°	13447.8	13720.0	10585.5	6253.3	3818.9	3616.7	3756.7	3842.2	3865.6	3958.9	4044.4
30°	13626.7	13478.9	9434.4	4472.2	3204.4	3212.2	3391.1	3391.1	3391.1	3461.1	3538.9
32.5°	13937.8	13315.5	8088.9	3266.7	2761.1	3010.0	2963.3	2947.8	2916.7	2831.1	2784.4
35°	14132.2	12872.2	6385.5	2418.9	2481.1	2761.1	2745.6	2504.4	2100.0	1897.8	1991.1
37.5°	14536.7	12646.7	4697.8	1866.7	2317.8	2636.7	2551.1	1967.8	1524.4	1330.0	1322.2
40°	15407.8	12498.9	3251.1	1633.3	2208.9	2574.4	2278.9	1680.0	1166.7	824.4	801.1
42.5°	16473.3	12506.7	2208.9	1540.0	2216.7	2706.7	2193.3	1438.9	824.4	661.1	645.6
45°	17904.4	12390.0	1516.7	1540.0	2356.7	2924.4	2247.8	1306.7	801.1	840.0	855.6
47.5°	19444.4	12491.1	1127.8	1400.0	2380.0	2932.2	2053.3	1283.3	770.0	972.2	1081.1
50°	21241.1	12592.2	933.3	1291.1	2387.8	2838.9	1890.0	1252.2	801.1	1026.7	1190.0
52.5°	23092.2	12911.1	793.3	1221.1	2481.1	2800.0	1890.0	1298.9	801.1	894.4	917.8
55°	25853.3	13727.8	1143.3	1524.4	2823.3	3056.7	2325.6	1820.0	1120.0	1151.1	1213.3
57.5°	28902.2	14567.8	1275.6	1602.2	2901.1	2753.3	2504.4	2006.7	1182.2	1190.0	1151.1
60°	30908.9	14598.9	1267.8	1563.3	2714.4	2380.0	2450.0	2115.6	1205.6	1018.9	1050.0
62.5°	31710.0	13650.0	1322.2	1563.3	2527.8	2224.4	2512.2	2278.9	1244.4	1275.6	1291.1
65°	30800.0	11690.0	1275.6	1400.0	2224.4	1991.1	2527.8	2310.0	1361.1	1283.3	1260.0
67°	29376.6	10072.2	1298.9	1330.0	2068.9	1890.0	2660.0	2426.7	1578.9	1540.0	1516.7
67.5°	28972.2	9644.4	1291.1	1291.1	2014.4	1858.9	2691.1	2426.7	1610.0	1594.4	1563.3
70°	25534.4	7816.7	1322.2	1275.6	1781.1	1765.6	2862.2	2558.9	1851.1	1866.7	1726.7
72.5°	19436.6	5926.7	1314.4	1275.6	1547.8	1687.8	2885.6	2644.4	2014.4	1866.7	1656.7
75°	11044.4	3546.7	1158.9	1112.2	1221.1	1470.0	2698.9	2520.0	1960.0	1672.2	1493.3
77.5°	4565.6	1827.8	1065.6	1003.3	1011.1	1197.8	2247.8	2348.9	1866.7	1423.3	1345.6
80°	1703.3	1096.7	855.6	801.1	777.8	878.9	1602.2	1874.4	1594.4	1166.7	1065.6
82.5°	886.7	684.4	583.3	583.3	528.9	560.0	863.3	1244.4	1205.6	801.1	630.0
85°	451.1	388.9	334.4	326.7	295.6	264.4	435.6	738.9	692.2	443.3	365.6
87.5°	241.1	217.8	140.0	132.2	108.9	70.0	77.8	147.8	241.1	194.4	140.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)