

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: P977488

Luminaire Tested: **EPH-VN-08-E-735-U-SL4**

Issue Date: 03/26/2025

Test Information

Test Method: LM-79-08
Report Number: P977488
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-735-U-SL4
Description: EPHESUS LUMAVISION – Middle Tier Light Square Luminaire w/ SL4
distribution lens
Light Source: (128) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 64423.2 lumens
Efficiency: N/A
Efficacy: 102.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - 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

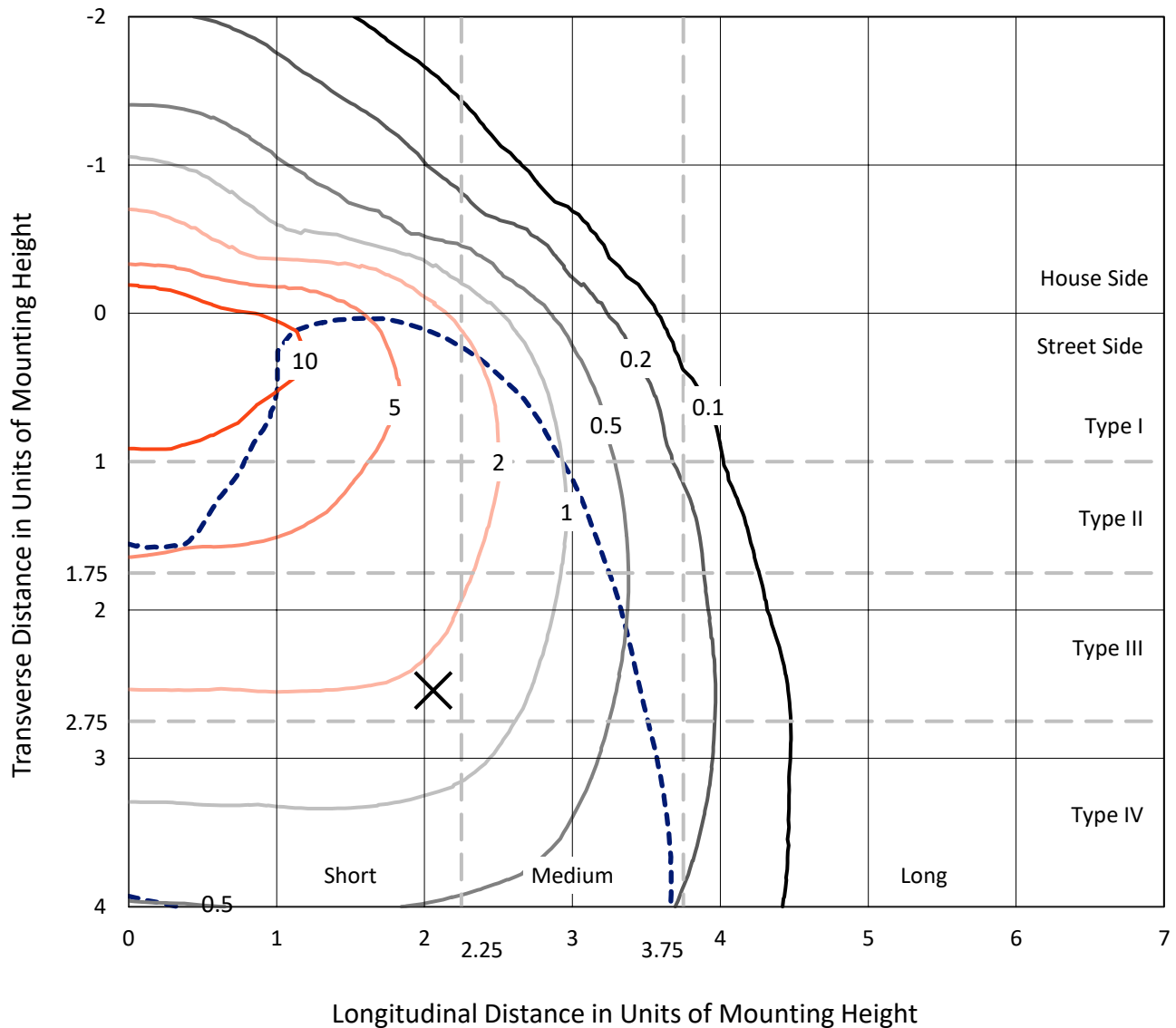
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd



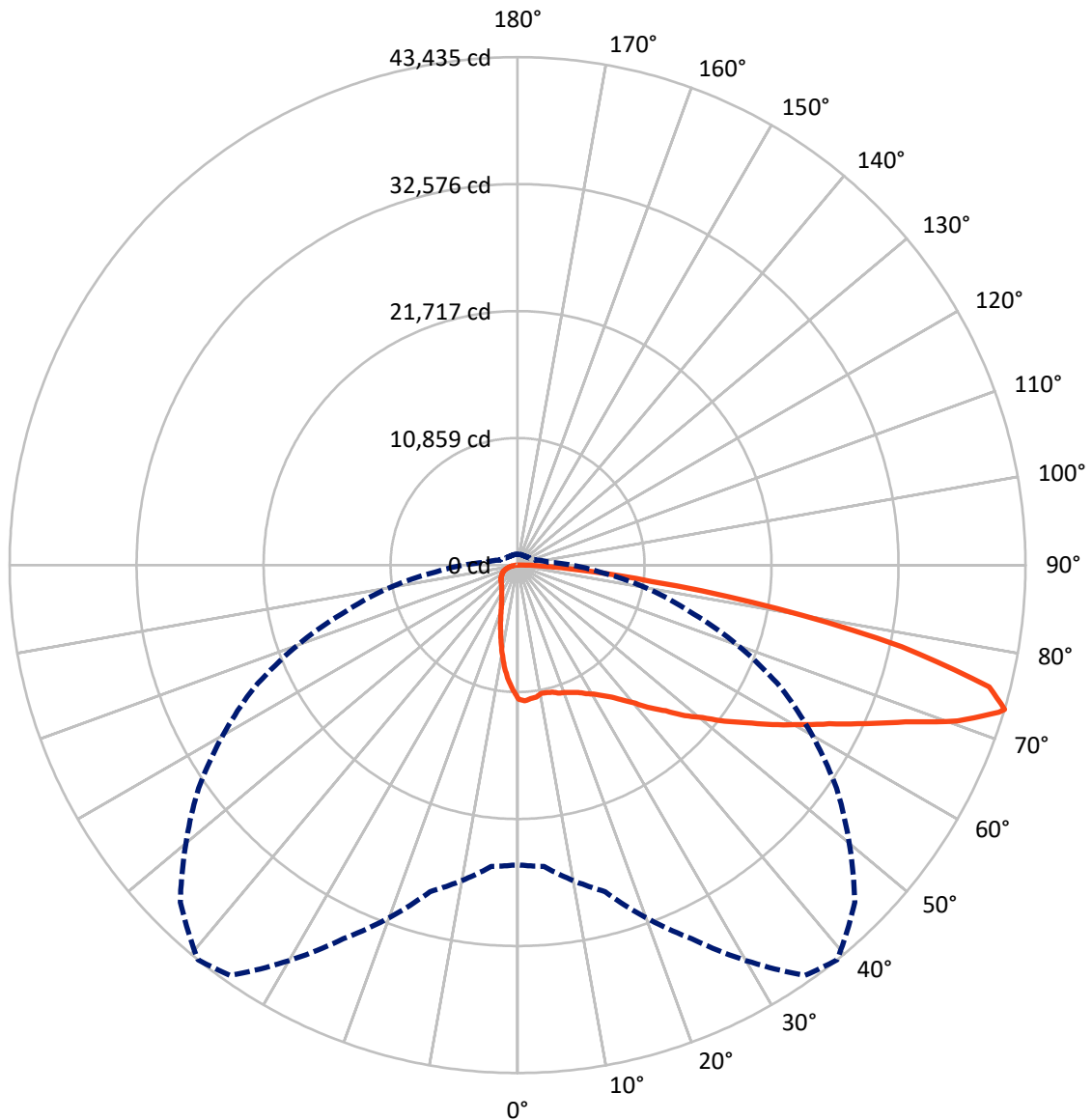
Based on 25 foot mounting height. Maximum calculated value = 18.3 fc

Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical

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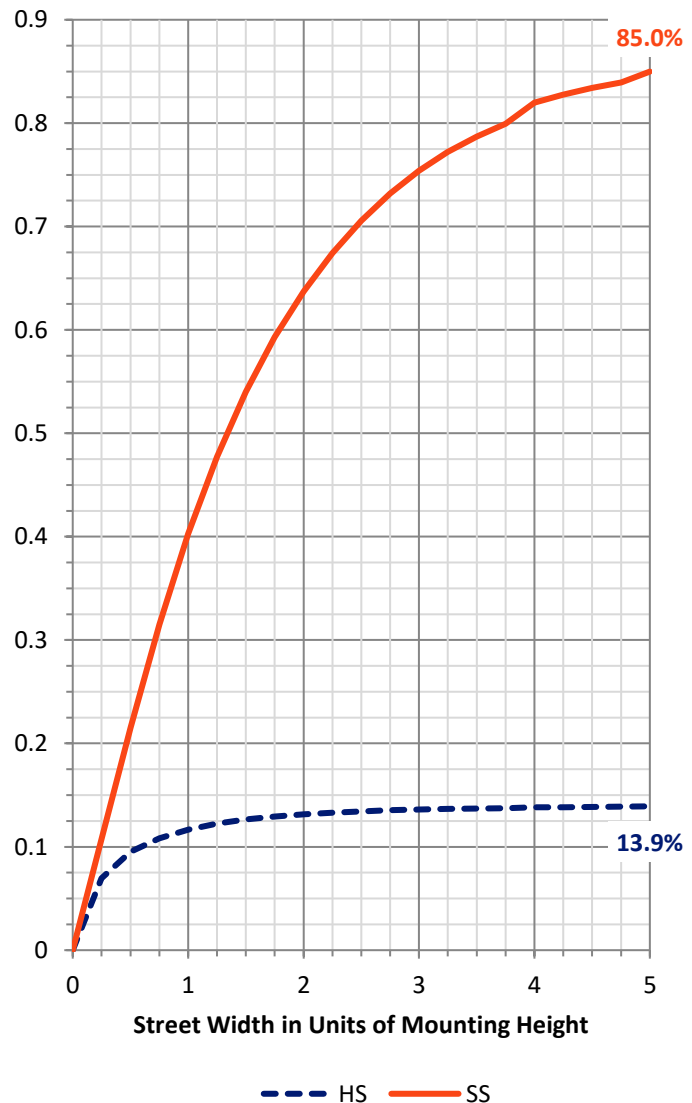
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9056.1	0.0	9056.1
	% Fixture	14.1	0.0	14.1
Street Side	Lumens	55367.1	0.0	55367.1
	% Fixture	85.9	0.0	85.9
Total	Lumens	64423.2	0.0	64423.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	995.5	1.5
10°-20°	2530.7	3.9
20°-30°	3867.1	6.0
30°-40°	5638.4	8.8
40°-50°	8520.2	13.2
50°-60°	12337.8	19.2
60°-70°	15675.8	24.3
70°-80°	12707.6	19.7
80°-90°	2150.1	3.3
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°	64423.2	100.0
0°-180°	64423.2	100.0

Coefficient of Utilization



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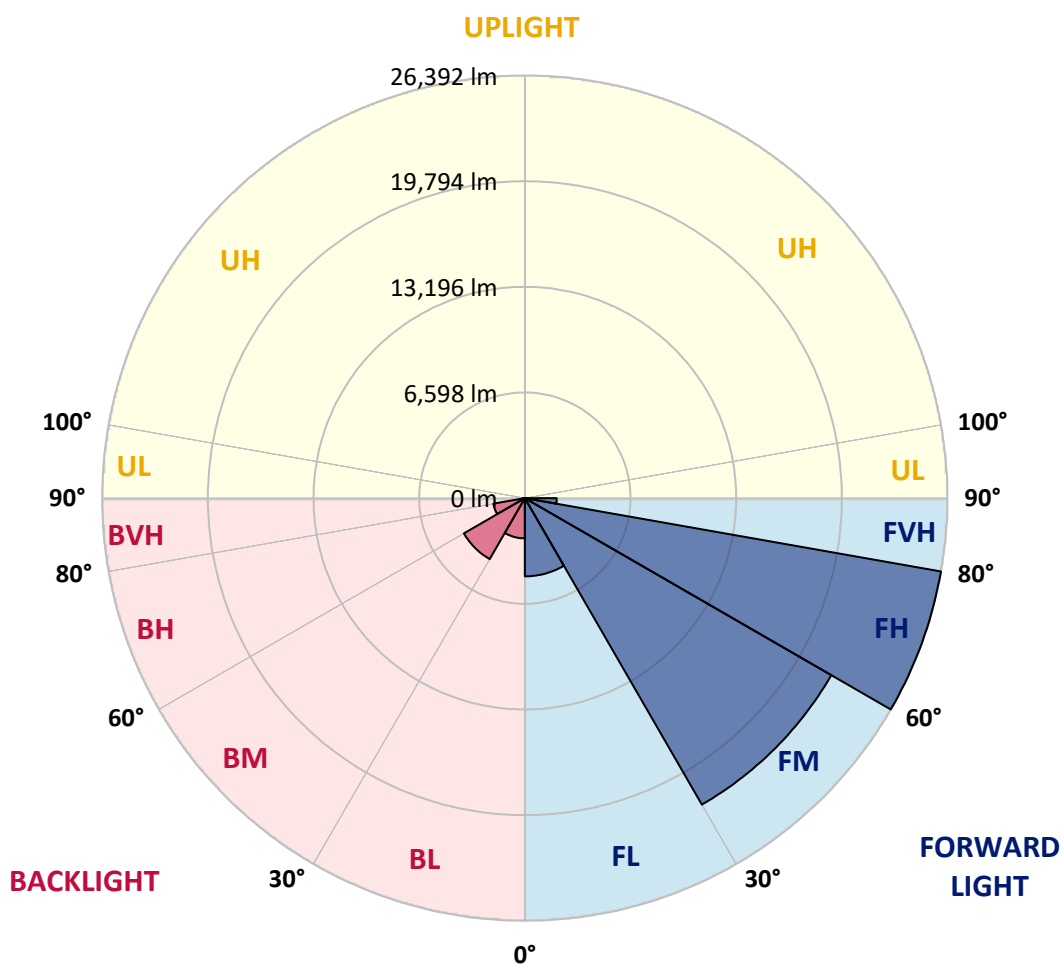
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4881.9	7.6			
FM	(30°-60°)	22101.3	34.3			
FH	(60°-80°)	26391.6	41.0			G5
FVH	(80°-90°)	1992.3	3.1			G5
BL	(0°-30°)	2511.4	3.9	B4/5000		
BM	(30°-60°)	4395.1	6.8	B3/5000		
BH	(60°-80°)	1991.8	3.1	B3/2500		G3/2500
BVH	(80°-90°)	157.7	0.2			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	11467.7	11467.7	11467.7	11467.7	11467.7	11467.7	11467.7	11467.7	11467.7	11467.7	11467.7
2.5°	11741.6	11619.1	11640.7	11597.5	11640.7	11626.3	11604.7	11496.6	11604.7	11496.6	11467.7
5°	11583.0	11583.0	11655.1	11547.0	11561.4	11489.3	11561.4	11482.1	11410.1	11229.9	11179.4
7.5°	11532.6	11525.4	11532.6	11381.2	11453.3	11410.1	11338.0	11251.5	11107.3	10992.0	10826.2
10°	11186.6	11258.7	11179.4	11222.7	11280.3	11150.6	11143.4	11121.7	11056.9	10905.5	10804.6
12.5°	10999.2	11121.7	11165.0	11129.0	11179.4	11193.8	11150.6	11121.7	11042.5	10941.5	10653.2
15°	11078.5	10934.3	11056.9	11294.7	11244.3	11280.3	11287.5	11258.7	11222.7	11035.2	10847.8
17.5°	11100.1	11013.6	11273.1	11323.6	11388.4	11518.2	11431.7	11424.5	11287.5	11157.8	10883.9
20°	11150.6	11114.5	11323.6	11590.3	11597.5	11619.1	11662.3	11554.2	11482.1	11258.7	10840.6
22.5°	11338.0	11460.5	11655.1	11770.5	11835.3	11849.7	11849.7	11633.5	11554.2	11374.0	11042.5
25°	11900.2	11770.5	12044.4	12181.3	12087.6	12066.0	12015.5	11820.9	11734.4	11575.8	11136.2
27.5°	12311.0	12303.8	12462.4	12649.8	12397.5	12448.0	12267.8	12210.1	12015.5	11929.0	11301.9
30°	12873.3	13031.8	13024.6	13082.3	12750.7	12808.4	12577.7	12469.6	12361.5	12412.0	11792.1
32.5°	13594.0	13536.4	13630.1	13586.8	13255.3	13305.7	13031.8	12866.0	12902.1	13053.5	12462.4
35°	14055.3	13997.7	14033.7	14033.7	13932.8	13875.2	13759.8	13543.6	13716.6	13997.7	13212.0
37.5°	14552.7	14624.8	14833.8	14790.5	14660.8	14660.8	14646.4	14495.0	14718.5	15410.4	14408.5
40°	14992.4	15187.0	15316.7	15403.2	15554.6	15554.6	15677.1	15590.6	15994.3	17104.3	15871.7
42.5°	15453.7	15460.9	16167.3	16232.1	16570.9	16715.1	16808.8	16880.8	17637.7	18877.4	17435.8
45°	16044.7	16080.8	16700.6	17198.0	17724.2	17774.6	18127.8	18365.7	19295.5	20816.3	19136.9
47.5°	16823.2	16779.9	17443.0	18235.9	18891.8	19237.8	19663.1	19922.6	21068.6	22921.0	20996.5
50°	17846.7	17716.9	18099.0	19345.9	20117.2	20499.2	21256.0	21688.5	23029.1	24932.0	22272.3
52.5°	19093.6	18877.4	19180.1	20542.4	21407.4	22178.6	22899.4	23382.3	24780.7	26488.9	23216.5
55°	20412.7	19965.8	20052.3	21811.0	23058.0	23786.0	24773.4	25278.0	26705.2	27887.2	24160.8
57.5°	21717.3	21436.2	21263.2	23029.1	25025.7	25724.9	26633.1	27289.0	28499.9	29127.0	24960.9
60°	22812.9	22740.8	22459.7	24917.6	27108.8	27707.1	28658.5	29062.1	29977.5	30273.1	24975.3
62.5°	23713.9	23468.8	23915.7	26438.5	29227.9	29905.5	30950.6	30986.6	31635.3	30986.6	24240.1
65°	24420.3	24434.7	25148.3	28276.5	31678.6	32680.5	33523.8	33430.1	33012.0	30561.4	22503.0
67.5°	25061.8	25335.7	26380.8	30294.7	34828.4	35772.7	36709.7	35469.9	33386.9	28572.0	19108.1
70°	25566.3	25840.2	28045.8	32752.6	38540.5	39924.4	40133.4	36277.2	31664.2	24204.0	14415.7
72.5°	25508.7	26006.0	28990.1	34713.1	41834.5	43031.0	41344.3	34006.7	26380.8	16873.6	8411.6
73°	25631.2	25876.3	28910.8	35260.9	42836.4	43434.6	40782.1	33293.2	24881.6	15136.5	7114.2
75°	23267.0	24095.9	27476.4	34367.1	41762.4	41654.3	37553.0	27743.1	17688.1	7950.3	3445.4
77.5°	17212.4	17738.6	21652.4	28262.1	34280.6	33588.7	28326.9	17731.4	8397.2	2948.0	1859.6
80°	8411.6	8822.4	11474.9	16318.6	22416.5	22474.1	17580.0	9226.1	3596.7	1665.0	1268.6
82.5°	4202.2	4447.3	5514.0	7171.8	11028.0	11554.2	8916.1	5247.3	2227.2	944.2	720.8
85°	2746.2	2919.2	3394.9	3510.2	4677.9	4937.4	4151.7	4094.1	1448.8	511.8	583.8
87.5°	1823.6	1852.4	2083.1	1773.1	1874.0	1802.0	2003.8	2580.4	425.3	216.2	158.6
90°	0.0	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°	180°
0°	11467.7	11467.7	11467.7	11467.7	11467.7	11467.7	11467.7	11467.7	11467.7	11467.7	11467.7
2.5°	11431.7	11330.8	11222.7	11071.3	10963.2	10797.4	10646.0	10581.2	10566.7	10573.9	10501.9
5°	11136.2	10992.0	10775.8	10465.8	10285.6	10011.7	9781.1	9658.5	9528.8	9550.4	9492.8
7.5°	10725.3	10566.7	10235.2	9874.8	9427.9	9038.7	8822.4	8519.7	8346.7	8217.0	8289.1
10°	10595.6	10321.7	9824.3	9327.0	8635.0	8123.3	7625.9	7279.9	7042.1	6811.4	6912.3
12.5°	10530.7	10256.8	9564.8	8829.6	7935.9	7157.4	6458.3	6033.0	5694.2	5492.4	5571.7
15°	10473.0	10134.3	9319.8	8281.8	7279.9	6256.4	5470.8	4908.6	4584.2	4389.6	4411.2
17.5°	10552.3	10069.4	8959.4	7748.5	6559.2	5463.6	4591.4	4007.6	3676.0	3553.5	3524.6
20°	10473.0	9997.3	8606.2	7215.1	5838.4	4706.7	3870.6	3387.7	3157.0	3056.1	3034.5
22.5°	10501.9	9824.3	8238.6	6624.0	5168.0	4072.4	3387.7	3020.1	2839.9	2789.4	2803.9
25°	10638.8	9723.4	7871.0	5975.3	4504.9	3603.9	3077.8	2796.7	2666.9	2616.5	2630.9
27.5°	10739.7	9809.9	7539.4	5362.7	3942.7	3185.9	2818.3	2630.9	2544.4	2508.3	2501.1
30°	10992.0	9860.4	7215.1	4814.9	3481.4	2912.0	2638.1	2486.7	2429.1	2407.4	2400.2
32.5°	11366.8	9954.1	6840.3	4310.3	3142.6	2652.5	2493.9	2364.2	2349.8	2328.1	2335.3
35°	11979.5	10278.4	6422.2	3877.8	2818.3	2479.5	2342.6	2256.1	2256.1	2256.1	2277.7
37.5°	12858.8	10732.5	6047.4	3467.0	2609.2	2328.1	2212.8	2184.0	2169.6	2191.2	2205.6
40°	13990.5	11280.3	5744.7	3142.6	2429.1	2227.2	2126.3	2111.9	2104.7	2097.5	2111.9
42.5°	15230.2	11979.5	5485.2	2890.4	2299.3	2119.1	2047.0	2032.6	2003.8	2018.2	2039.8
45°	16462.8	12844.4	5254.5	2688.5	2212.8	2061.5	1960.5	1953.3	1938.9	1931.7	1967.7
47.5°	17832.3	13695.0	5182.5	2566.0	2147.9	1975.0	1902.9	1895.7	1852.4	1845.2	1874.0
50°	18899.0	14322.0	5261.7	2508.3	2054.2	1910.1	1859.6	1823.6	1787.6	1751.5	1751.5
52.5°	19634.2	14754.5	5319.4	2465.1	2003.8	1823.6	1758.7	1744.3	1708.3	1672.2	1657.8
55°	20297.4	15014.0	5333.8	2472.3	1953.3	1722.7	1679.4	1672.2	1650.6	1592.9	1578.5
57.5°	20520.8	14905.9	5045.5	2407.4	1924.5	1657.8	1600.1	1614.6	1585.7	1535.3	1528.1
60°	20499.2	14156.3	4389.6	2320.9	1859.6	1585.7	1513.7	1556.9	1556.9	1499.2	1492.0
62.5°	19252.2	12426.4	3589.5	2155.2	1787.6	1513.7	1434.4	1499.2	1520.9	1484.8	1477.6
65°	16664.6	10119.8	2998.5	1989.4	1679.4	1434.4	1355.1	1427.2	1463.2	1448.8	1441.6
67.5°	13788.7	7741.3	2493.9	1773.1	1542.5	1326.2	1261.4	1311.8	1333.5	1340.7	1347.9
70°	9745.0	5153.6	2083.1	1535.3	1355.1	1210.9	1138.8	1146.1	1138.8	1160.5	1160.5
72.5°	5297.8	2969.6	1693.8	1304.6	1167.7	1052.3	1001.9	965.9	965.9	958.6	958.6
73°	4533.8	2666.9	1614.6	1268.6	1117.2	1023.5	965.9	937.0	937.0	929.8	922.6
75°	2544.4	1953.3	1383.9	1088.4	965.9	893.8	850.5	807.3	800.1	800.1	800.1
77.5°	1672.2	1520.9	1102.8	872.2	778.4	713.6	699.2	655.9	655.9	655.9	648.7
80°	1254.2	1196.5	850.5	663.1	598.3	547.8	533.4	504.6	497.3	468.5	475.7
82.5°	836.1	944.2	619.9	468.5	403.6	374.8	374.8	367.6	346.0	309.9	309.9
85°	663.1	771.2	446.9	288.3	237.9	201.8	209.0	201.8	194.6	158.6	151.4
87.5°	122.5	309.9	129.7	79.3	57.7	36.0	36.0	21.6	14.4	0.0	0.0
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)