

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: P977487

Luminaire Tested: **EPH-VN-08-E-730-U-SL4**

Issue Date: 03/26/2025

Test Information

Test Method: LM-79-08
Report Number: P977487
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-730-U-SL4
Description: EPHESUS LUMAVISION – Middle Tier Light Square Luminaire w/ SL4 distribution lens
Light Source: (128) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 59478.6 lumens
Efficiency: N/A
Efficacy: 94.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - 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

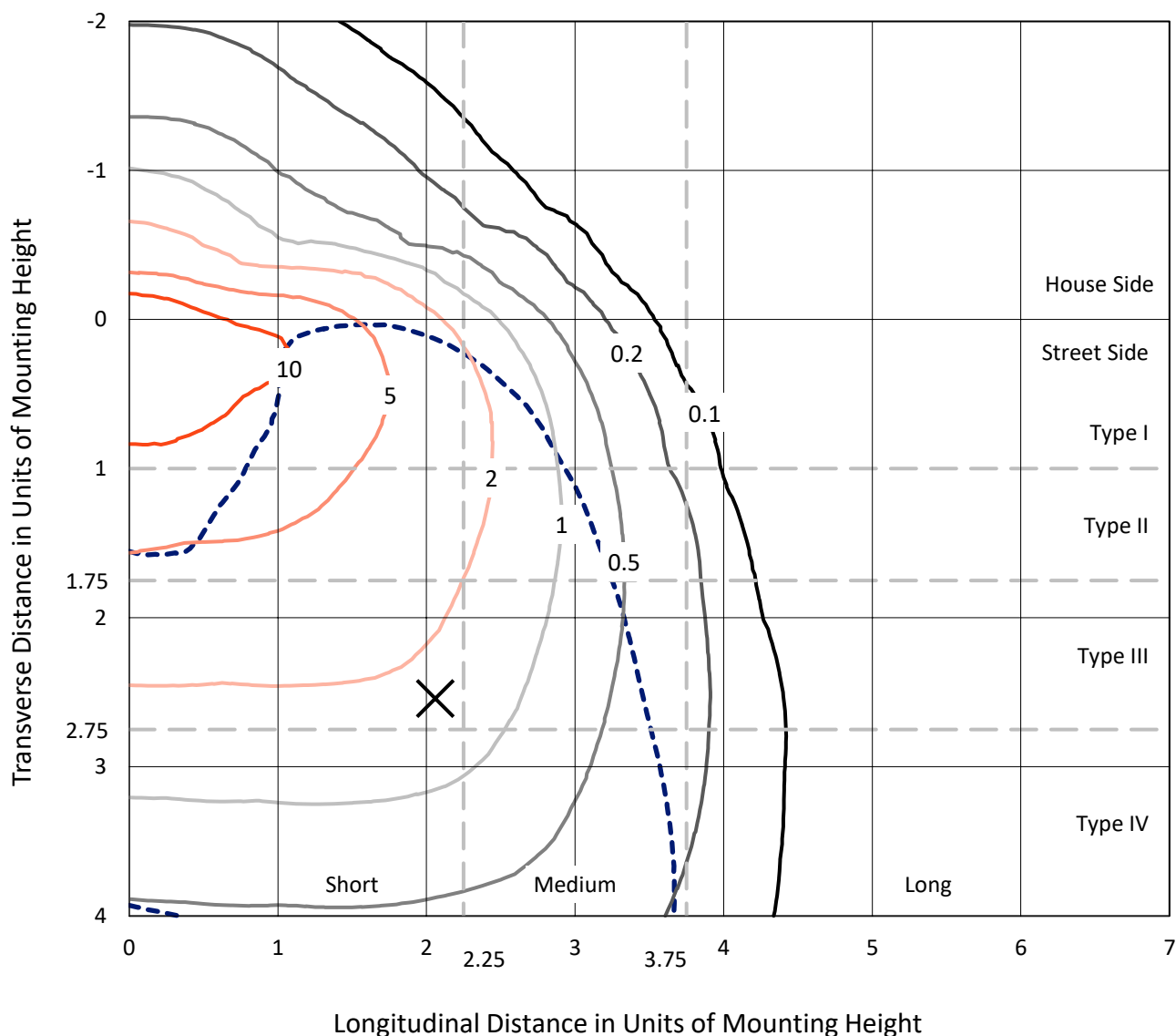
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd



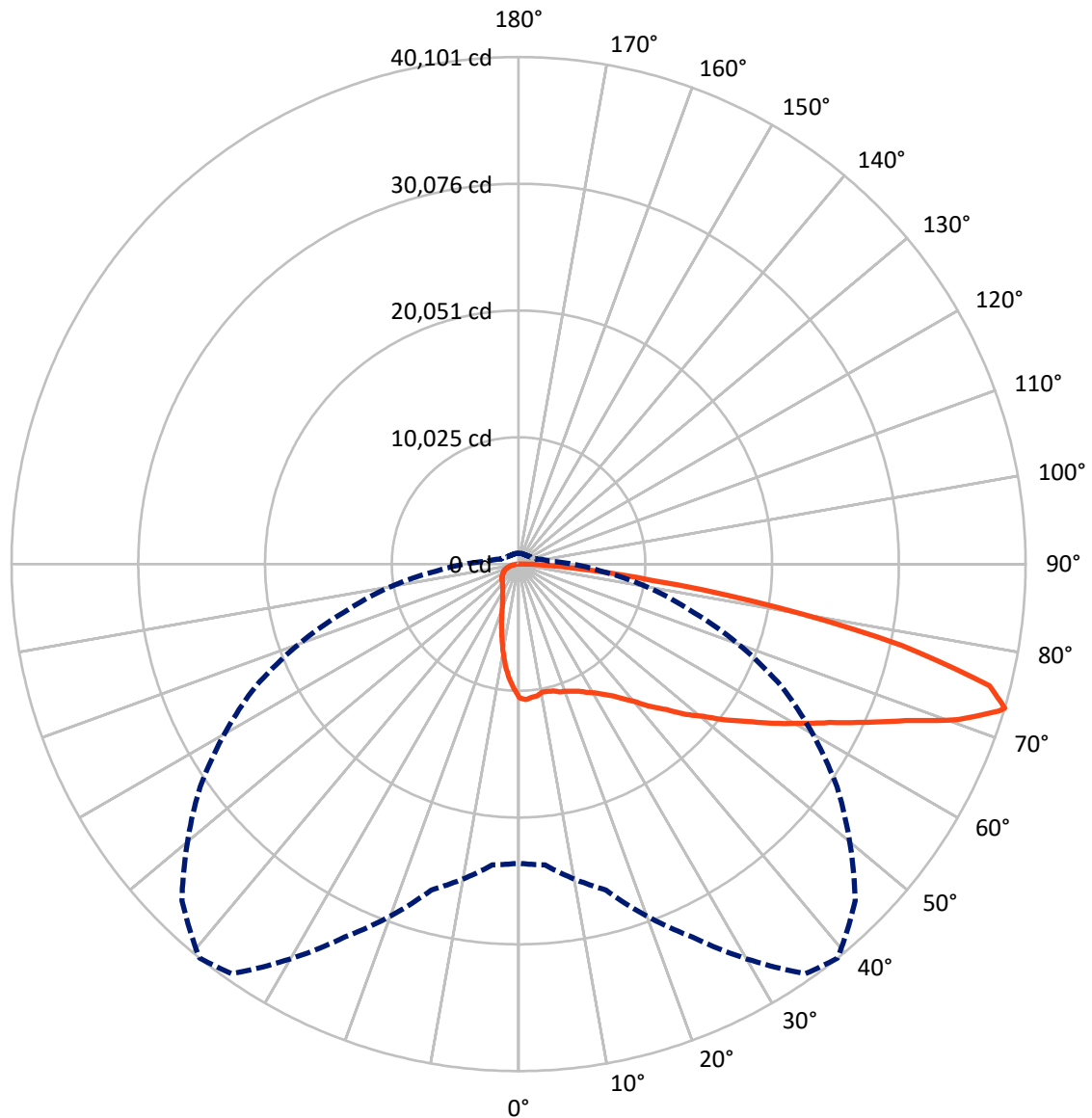
Based on 25 foot mounting height. Maximum calculated value = 16.9 fc

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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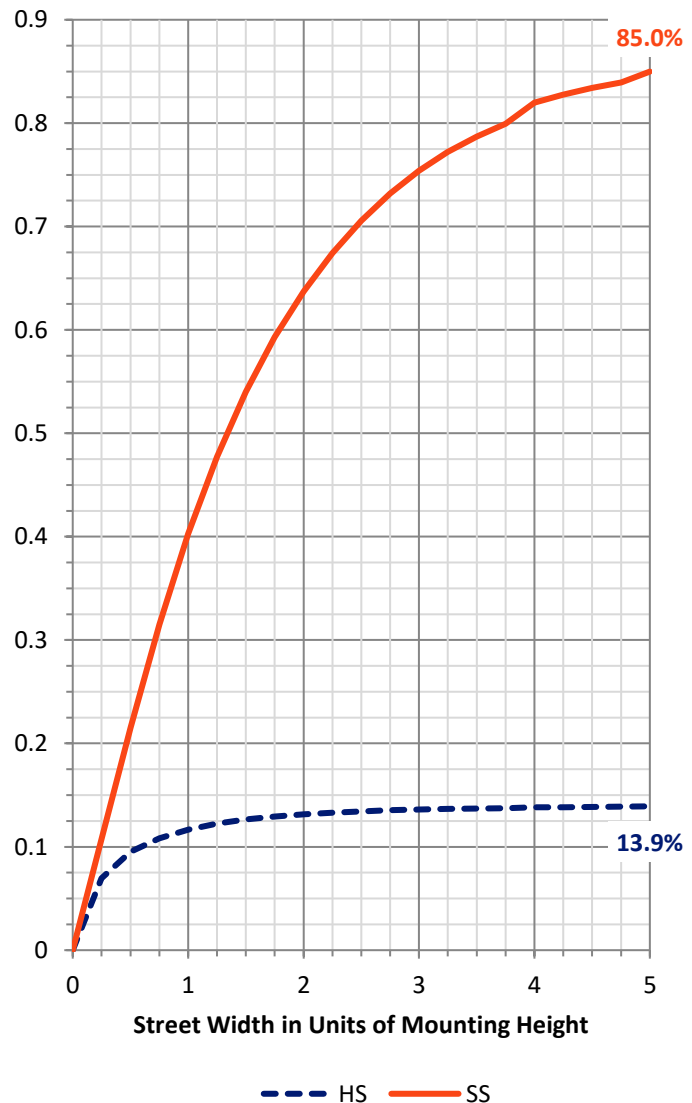
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8361.0	0.0	8361.0
	% Fixture	14.1	0.0	14.1
Street Side	Lumens	51117.6	0.0	51117.6
	% Fixture	85.9	0.0	85.9
Total	Lumens	59478.6	0.0	59478.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	919.1	1.5
10°-20°	2336.4	3.9
20°-30°	3570.3	6.0
30°-40°	5205.7	8.8
40°-50°	7866.3	13.2
50°-60°	11390.9	19.2
60°-70°	14472.6	24.3
70°-80°	11732.3	19.7
80°-90°	1985.0	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°	59478.6	100.0
0°-180°	59478.6	100.0

Coefficient of Utilization



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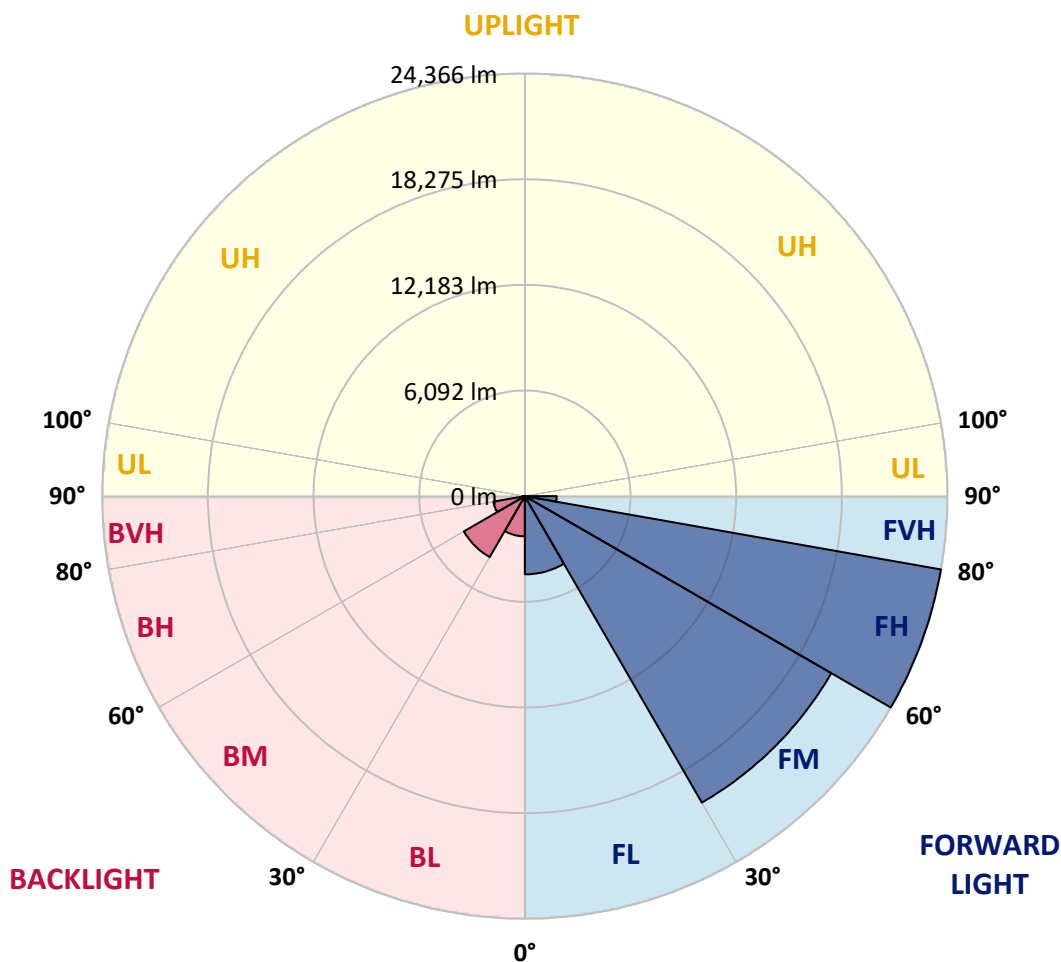
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4507.2	7.6			
FM	(30°-60°)	20405.0	34.3			
FH	(60°-80°)	24366.0	41.0			G5
FVH	(80°-90°)	1839.4	3.1			G5
BL	(0°-30°)	2318.7	3.9	B3/2500		
BM	(30°-60°)	4057.8	6.8	B3/5000		
BH	(60°-80°)	1838.9	3.1	B3/2500		G3/2500
BVH	(80°-90°)	145.6	0.2			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	10587.6	10587.6	10587.6	10587.6	10587.6	10587.6	10587.6	10587.6	10587.6	10587.6	10587.6
2.5°	10840.4	10727.3	10747.3	10707.3	10747.3	10734.0	10714.0	10614.2	10714.0	10614.2	10587.6
5°	10694.0	10694.0	10760.6	10660.8	10674.1	10607.5	10674.1	10600.9	10534.3	10368.0	10321.4
7.5°	10647.4	10640.8	10647.4	10507.7	10574.2	10534.3	10467.8	10387.9	10254.8	10148.3	9995.3
10°	10328.0	10394.6	10321.4	10361.3	10414.5	10294.8	10288.1	10268.1	10208.2	10068.5	9975.3
12.5°	10155.0	10268.1	10308.1	10274.8	10321.4	10334.7	10294.8	10268.1	10194.9	10101.8	9835.6
15°	10228.2	10095.1	10208.2	10427.8	10381.3	10414.5	10421.2	10394.6	10361.3	10188.3	10015.3
17.5°	10248.2	10168.3	10407.9	10454.5	10514.4	10634.1	10554.3	10547.6	10421.2	10301.4	10048.5
20°	10294.8	10261.5	10454.5	10700.7	10707.3	10727.3	10767.2	10667.4	10600.9	10394.6	10008.6
22.5°	10467.8	10580.9	10760.6	10867.1	10926.9	10940.3	10940.3	10740.6	10667.4	10501.0	10194.9
25°	10986.8	10867.1	11119.9	11246.4	11159.9	11139.9	11093.3	10913.6	10833.8	10687.4	10281.4
27.5°	11366.2	11359.5	11505.9	11678.9	11446.0	11492.6	11326.2	11273.0	11093.3	11013.5	10434.5
30°	11885.2	12031.6	12025.0	12078.2	11772.1	11825.3	11612.4	11512.6	11412.7	11459.3	10887.0
32.5°	12550.7	12497.4	12584.0	12544.0	12237.9	12284.5	12031.6	11878.6	11911.8	12051.6	11505.9
35°	12976.6	12923.3	12956.6	12956.6	12863.4	12810.2	12703.7	12504.1	12663.8	12923.3	12198.0
37.5°	13435.7	13502.3	13695.3	13655.4	13535.6	13535.6	13522.3	13382.5	13588.8	14227.7	13302.7
40°	13841.7	14021.4	14141.1	14221.0	14360.7	14360.7	14473.9	14394.0	14766.7	15791.5	14653.6
42.5°	14267.6	14274.2	14926.4	14986.3	15299.1	15432.1	15518.7	15585.2	16283.9	17428.5	16097.6
45°	14813.3	14846.5	15418.8	15878.0	16363.8	16410.4	16736.5	16956.1	17814.5	19218.6	17668.1
47.5°	15532.0	15492.0	16104.3	16836.3	17441.9	17761.3	18153.9	18393.5	19451.6	21161.8	19385.0
50°	16476.9	16357.1	16709.8	17861.1	18573.1	18925.8	19624.6	20023.9	21261.6	23018.5	20562.9
52.5°	17628.2	17428.5	17708.0	18965.8	19764.3	20476.4	21141.8	21587.7	22878.7	24455.9	21434.6
55°	18846.0	18433.4	18513.3	20137.0	21288.2	21960.4	22872.1	23337.9	24655.5	25746.9	22306.4
57.5°	20050.5	19790.9	19631.2	21261.6	23105.0	23750.5	24589.0	25194.5	26312.5	26891.5	23045.1
60°	21062.0	20995.4	20735.9	23005.1	25028.2	25580.5	26458.9	26831.6	27676.7	27949.6	23058.4
62.5°	21893.8	21667.6	22080.1	24409.3	26984.6	27610.2	28575.1	28608.4	29207.3	28608.4	22379.6
65°	22546.0	22559.3	23218.1	26106.2	29247.2	30172.2	30950.8	30864.3	30478.3	28215.7	20775.8
67.5°	23138.2	23391.1	24356.0	27969.5	32155.3	33027.1	33892.2	32747.6	30824.4	26379.1	17641.5
70°	23604.1	23856.9	25893.3	30238.8	35582.4	36860.1	37053.1	33492.9	29233.9	22346.3	13309.3
72.5°	23550.8	24010.0	26765.0	32048.8	38623.6	39728.3	38171.1	31396.7	24356.0	15578.5	7766.0
73°	23664.0	23890.2	26691.8	32554.6	39548.6	40101.0	37652.0	30737.9	22971.9	13974.8	6568.1
75°	21481.2	22246.5	25367.5	31729.4	38557.1	38457.3	34670.8	25613.8	16330.5	7340.1	3180.9
77.5°	15891.3	16377.1	19990.6	26092.9	31649.5	31010.7	26152.8	16370.5	7752.7	2721.8	1716.9
80°	7766.0	8145.3	10594.2	15066.1	20696.0	20749.2	16230.7	8518.0	3320.7	1537.2	1171.2
82.5°	3879.7	4105.9	5090.8	6621.4	10181.6	10667.4	8231.8	4844.6	2056.3	871.8	665.5
85°	2535.4	2695.1	3134.3	3240.8	4318.9	4558.4	3833.1	3779.8	1337.6	472.5	539.0
87.5°	1683.6	1710.2	1923.2	1637.0	1730.2	1663.7	1850.0	2382.4	392.6	199.6	146.4
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°	10587.6	10587.6	10587.6	10587.6	10587.6	10587.6	10587.6	10587.6	10587.6	10587.6	10587.6
2.5°	10554.3	10461.1	10361.3	10221.6	10121.7	9968.7	9828.9	9769.0	9755.7	9762.4	9695.8
5°	10281.4	10148.3	9948.7	9662.6	9496.2	9243.3	9030.4	8917.2	8797.5	8817.4	8764.2
7.5°	9902.1	9755.7	9449.6	9116.9	8704.3	8344.9	8145.3	7865.8	7706.1	7586.3	7652.9
10°	9782.3	9529.5	9070.3	8611.1	7972.3	7499.8	7040.6	6721.2	6501.6	6288.6	6381.8
12.5°	9722.5	9469.6	8830.7	8152.0	7326.8	6608.1	5962.6	5569.9	5257.2	5070.8	5144.0
15°	9669.2	9356.4	8604.5	7646.2	6721.2	5776.2	5050.9	4531.8	4232.4	4052.7	4072.6
17.5°	9742.4	9296.6	8271.7	7153.8	6055.7	5044.2	4239.0	3700.0	3393.9	3280.7	3254.1
20°	9669.2	9230.0	7945.7	6661.3	5390.3	4345.5	3573.5	3127.7	2914.7	2821.6	2801.6
22.5°	9695.8	9070.3	7606.3	6115.6	4771.4	3759.9	3127.7	2788.3	2621.9	2575.4	2588.7
25°	9822.3	8977.1	7266.9	5516.7	4159.2	3327.3	2841.5	2582.0	2462.2	2415.6	2428.9
27.5°	9915.4	9057.0	6960.8	4951.1	3640.1	2941.4	2602.0	2428.9	2349.1	2315.8	2309.2
30°	10148.3	9103.6	6661.3	4445.3	3214.2	2688.5	2435.6	2295.9	2242.6	2222.7	2216.0
32.5°	10494.4	9190.1	6315.3	3979.5	2901.4	2448.9	2302.5	2182.7	2169.4	2149.5	2156.1
35°	11060.0	9489.5	5929.3	3580.2	2602.0	2289.2	2162.8	2082.9	2082.9	2082.9	2102.9
37.5°	11871.9	9908.8	5583.3	3200.9	2409.0	2149.5	2043.0	2016.4	2003.1	2023.0	2036.3
40°	12916.7	10414.5	5303.8	2901.4	2242.6	2056.3	1963.1	1949.8	1943.2	1936.5	1949.8
42.5°	14061.3	11060.0	5064.2	2668.5	2122.8	1956.5	1889.9	1876.6	1850.0	1863.3	1883.3
45°	15199.2	11858.6	4851.2	2482.2	2043.0	1903.2	1810.1	1803.4	1790.1	1783.4	1816.7
47.5°	16463.6	12643.8	4784.7	2369.1	1983.1	1823.4	1756.8	1750.2	1710.2	1703.6	1730.2
50°	17448.5	13222.8	4857.9	2315.8	1896.6	1763.5	1716.9	1683.6	1650.4	1617.1	1617.1
52.5°	18127.3	13622.1	4911.1	2275.9	1850.0	1683.6	1623.7	1610.4	1577.2	1543.9	1530.6
55°	18739.5	13861.6	4924.4	2282.5	1803.4	1590.5	1550.5	1543.9	1523.9	1470.7	1457.4
57.5°	18945.8	13761.8	4658.3	2222.7	1776.8	1530.6	1477.3	1490.6	1464.0	1417.4	1410.8
60°	18925.8	13069.7	4052.7	2142.8	1716.9	1464.0	1397.5	1437.4	1437.4	1384.2	1377.5
62.5°	17774.6	11472.6	3314.0	1989.7	1650.4	1397.5	1324.3	1384.2	1404.1	1370.9	1364.2
65°	15385.6	9343.1	2768.3	1836.7	1550.5	1324.3	1251.1	1317.6	1350.9	1337.6	1330.9
67.5°	12730.4	7147.1	2302.5	1637.0	1424.1	1224.5	1164.6	1211.1	1231.1	1237.8	1244.4
70°	8997.1	4758.1	1923.2	1417.4	1251.1	1118.0	1051.4	1058.1	1051.4	1071.4	1071.4
72.5°	4891.2	2741.7	1563.8	1204.5	1078.1	971.6	925.0	891.7	891.7	885.1	885.1
73°	4185.8	2462.2	1490.6	1171.2	1031.5	945.0	891.7	865.1	865.1	858.5	851.8
75°	2349.1	1803.4	1277.7	1004.9	891.7	825.2	785.2	745.3	738.7	738.7	738.7
77.5°	1543.9	1404.1	1018.2	805.2	718.7	658.8	645.5	605.6	605.6	605.6	598.9
80°	1157.9	1104.7	785.2	612.2	552.3	505.8	492.4	465.8	459.2	432.6	439.2
82.5°	771.9	871.8	572.3	432.6	372.7	346.0	346.0	339.4	319.4	286.2	286.2
85°	612.2	712.0	412.6	266.2	219.6	186.3	193.0	186.3	179.7	146.4	139.7
87.5°	113.1	286.2	119.8	73.2	53.2	33.3	33.3	20.0	13.3	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)