

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: P977494

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

Issue Date: 03/26/2025



Test Information

Test Method: LM-79-08
Report Number: P977494
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-RW
Description: EPHESUS LUMAVISION – Middle Tier Light Square Luminaire w/ RW distribution lens
Light Source: (128) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

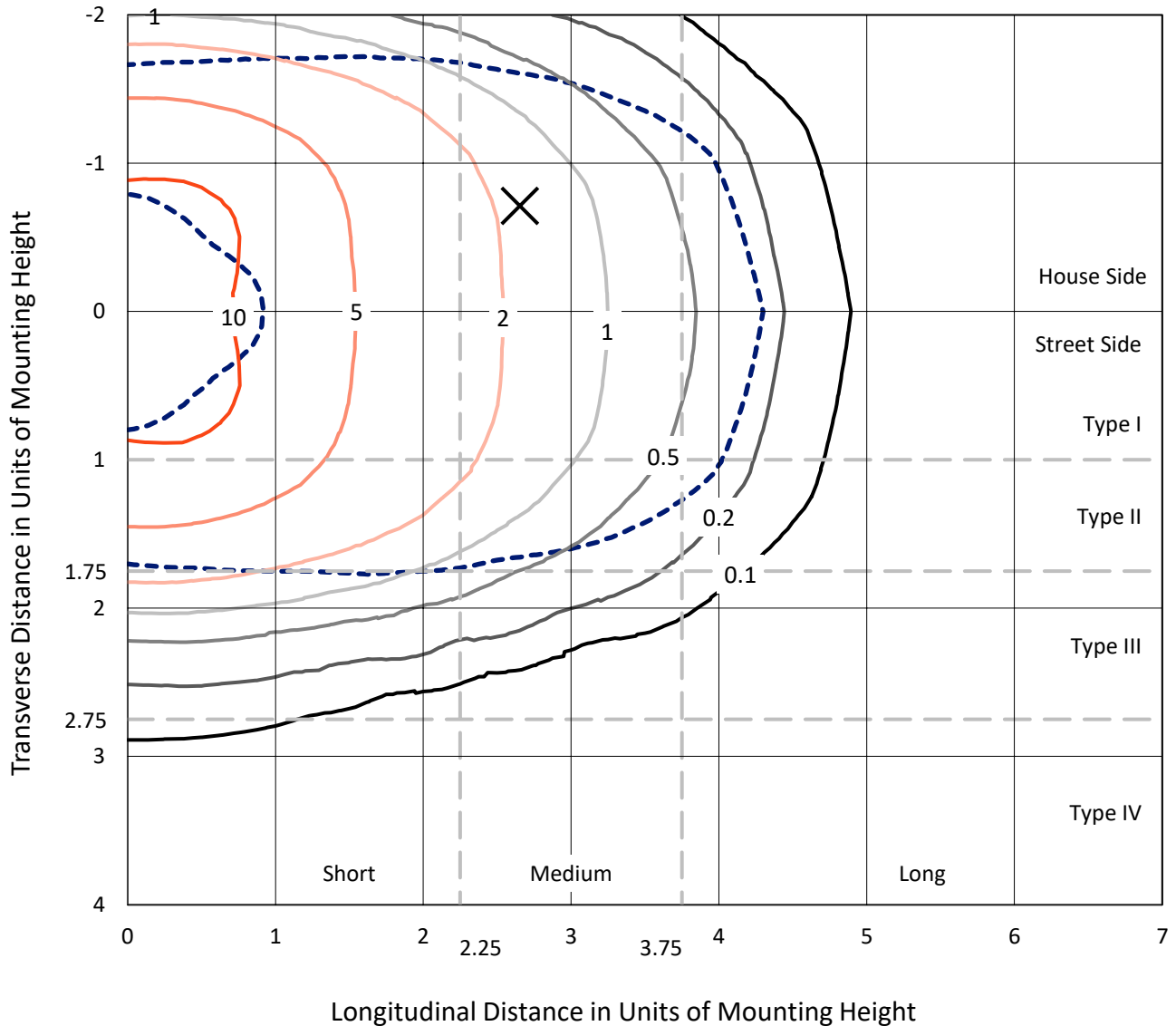
Lumens per Lamp: N/A
Luminaire Lumens: 69555.3 lumens
Efficiency: N/A
Efficacy: 111.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B5 - U0 - G5

Input Watts (W): 626.8
Input Voltage (V): 120
Input Current (A_{in}): 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

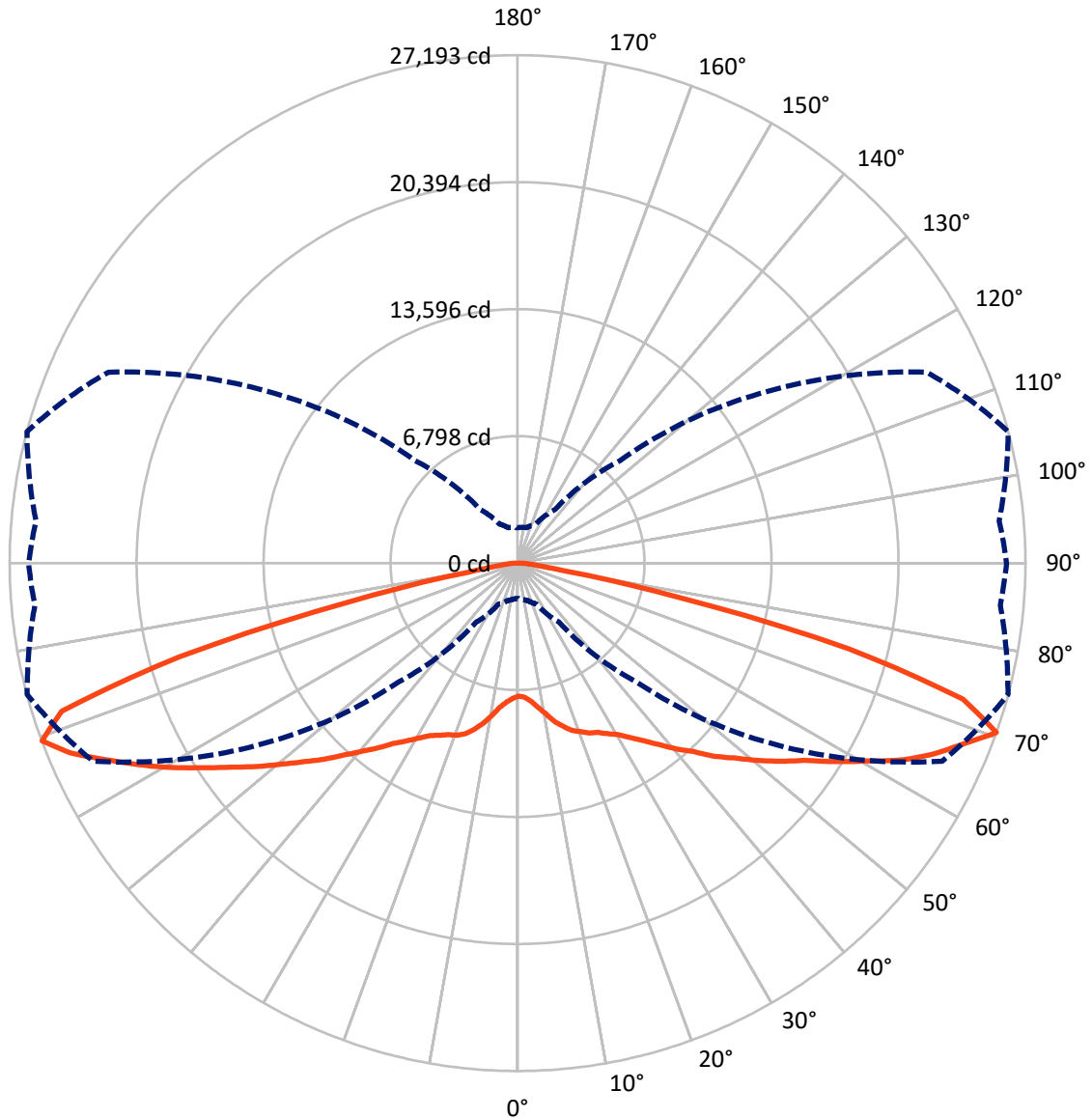
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 105-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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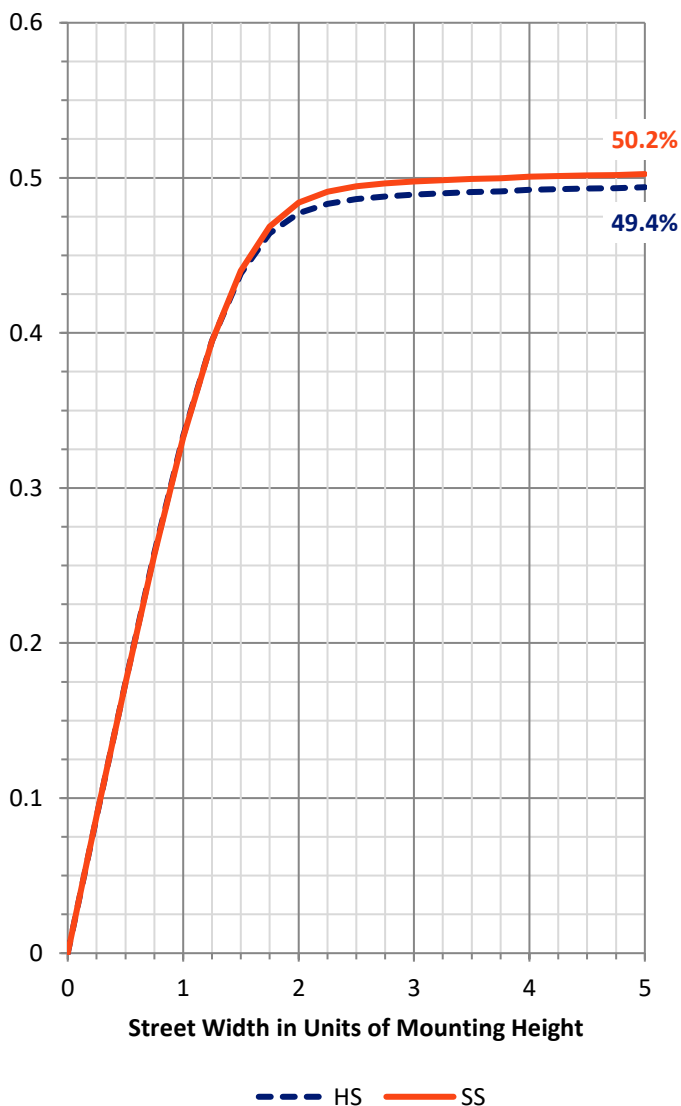
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	34530.2	0.0	34530.2
	% Fixture	49.6	0.0	49.6
Street Side	Lumens	35025.0	0.0	35025.0
	% Fixture	50.4	0.0	50.4
Total	Lumens	69555.3	0.0	69555.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	708.9	1.0
10°-20°	2413.8	3.5
20°-30°	4673.9	6.7
30°-40°	7905.6	11.4
40°-50°	12611.7	18.1
50°-60°	17262.7	24.8
60°-70°	16271.3	23.4
70°-80°	7168.0	10.3
80°-90°	539.3	0.8
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°	69555.3	100.0
0°-180°	69555.3	100.0



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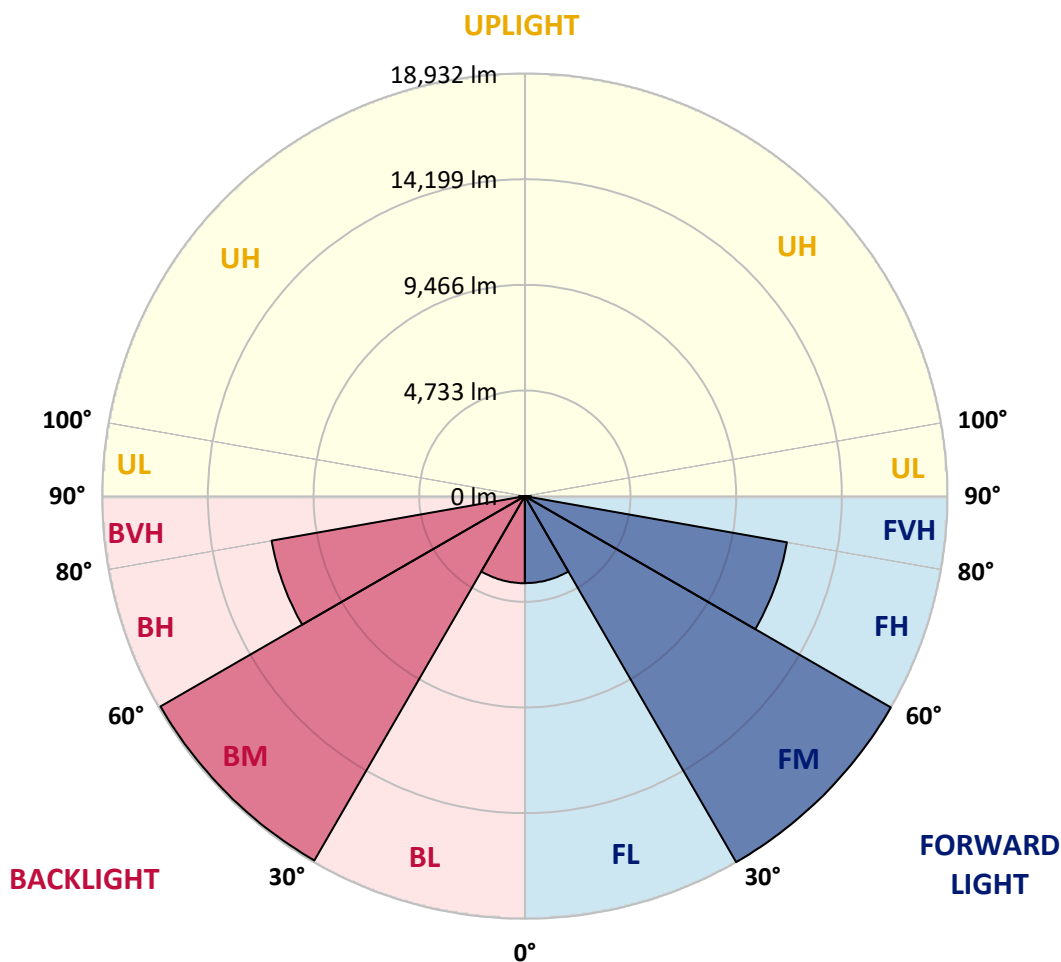
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3896.2	5.6			
FM (30°-60°)	18932.3	27.2			
FH (60°-80°)	11921.0	17.1			G4/12000
FVH (80°-90°)	275.5	0.4			G3/500
BL (0°-30°)	3900.4	5.6	B4/5000		
BM (30°-60°)	18847.7	27.1	B5		
BH (60°-80°)	11518.2	16.6	B5		G5
BVH (80°-90°)	263.8	0.4			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G5

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	7122.4	7122.4	7122.4	7122.4	7122.4	7122.4	7122.4	7122.4	7122.4	7122.4	7122.4
2.5°	7077.4	7077.4	7069.9	7107.4	7144.9	7159.9	7189.9	7197.4	7242.3	7204.9	7279.8
5°	7054.9	7047.4	7107.4	7197.4	7197.4	7294.8	7354.8	7437.3	7459.8	7504.7	7519.7
7.5°	7212.4	7197.4	7167.4	7264.8	7347.3	7497.2	7579.7	7722.2	7774.6	7834.6	7902.1
10°	7309.8	7309.8	7279.8	7452.3	7527.2	7729.7	7909.6	8052.0	8254.5	8321.9	8329.4
12.5°	7324.8	7347.3	7437.3	7662.2	7872.1	8134.5	8269.5	8539.4	8741.8	8869.2	8914.2
15°	7549.7	7504.7	7602.2	7909.6	8217.0	8449.4	8689.3	8884.2	9176.6	9341.6	9446.5
17.5°	7752.2	7707.2	7887.1	8254.5	8569.4	8929.2	9139.1	9349.1	9559.0	9708.9	9716.4
20°	8074.5	8112.0	8269.5	8666.8	9079.2	9394.1	9634.0	9671.5	9776.4	9993.8	9956.3
22.5°	8471.9	8441.9	8771.8	9206.6	9656.5	9918.9	10053.8	9956.3	9903.9	10136.3	10188.8
25°	8869.2	8959.2	9259.1	9664.0	10203.8	10556.1	10593.6	10323.7	10128.8	10211.3	10188.8
27.5°	9476.5	9491.5	9806.4	10286.2	10833.5	11140.9	11118.4	10736.1	10361.2	10368.7	10383.7
30°	10256.2	10181.3	10526.1	10961.0	11500.8	11778.2	11815.7	11268.4	10766.1	10616.1	10653.6
32.5°	11006.0	11095.9	11395.8	11890.6	12288.0	12445.4	12363.0	11875.6	11223.4	11021.0	11043.4
35°	11965.6	11950.6	12363.0	12782.8	13082.7	13112.7	13045.2	12333.0	11718.2	11455.8	11350.8
37.5°	12992.7	13127.7	13397.6	13742.5	14057.3	14072.3	13705.0	13135.2	12378.0	11943.1	12070.6
40°	14139.8	14289.8	14484.7	14987.0	15219.4	14979.5	14604.6	13832.4	13045.2	12662.9	12722.8
42.5°	15151.9	15219.4	15616.8	16209.1	16321.5	16216.6	15661.8	14724.6	13809.9	13390.1	13420.1
45°	16081.6	16171.6	16688.9	17221.2	17483.6	17303.7	16658.9	15766.7	14702.1	14342.2	14199.8
47.5°	16936.3	17116.2	17618.5	18165.8	18570.7	18585.7	17791.0	16711.4	15586.8	15114.5	15107.0
50°	17513.6	17776.0	18270.8	18893.1	19485.4	19717.8	18923.1	17761.0	16553.9	16051.6	15999.1
52.5°	17828.5	18098.4	18593.2	19560.3	20220.1	20580.0	20205.1	18743.1	17686.0	17161.2	17078.7
55°	17446.1	17626.0	18435.7	19792.7	20812.4	21404.6	21157.2	20100.1	18810.6	18383.3	18458.2
57.5°	15819.2	16194.1	17191.2	18885.6	20797.4	22251.8	22229.3	21382.2	20107.6	19702.8	19717.8
60°	13022.7	13337.6	14567.2	16936.3	19957.7	22596.7	23391.4	22626.7	21562.1	21089.8	21074.8
62.5°	9191.6	9589.0	11013.5	13600.0	17483.6	22116.9	24725.9	24193.6	22986.6	22641.7	22769.1
65°	5143.1	5383.0	6702.5	9041.7	13322.6	19477.9	24965.8	25820.5	24433.5	23908.7	23931.2
67.5°	2751.5	2841.5	3456.2	4745.8	8149.5	15017.0	22544.2	26757.7	26000.5	25093.3	24950.8
70°	1889.3	1919.3	2076.7	2429.1	3853.6	8981.7	17003.8	25085.8	27177.5	25940.5	26180.4
72.5°	1596.9	1581.9	1619.4	1656.9	2016.8	4018.5	9978.8	19305.4	25655.6	25190.8	25100.8
75°	1387.0	1379.5	1394.5	1357.0	1402.0	1769.4	4415.9	12033.1	18780.6	20962.3	21299.7
77.5°	1147.1	1154.6	1162.1	1124.6	1109.6	1169.6	1776.8	5285.6	9244.1	10203.8	11006.0
80°	869.7	884.7	944.7	907.2	847.2	854.7	1049.6	1769.4	2654.0	2406.6	2481.6
82.5°	592.3	599.8	727.2	682.2	637.3	577.3	674.8	914.7	1034.6	787.2	689.7
85°	419.8	412.3	472.3	434.8	404.9	292.4	404.9	517.3	622.3	389.9	352.4
87.5°	97.5	97.5	194.9	157.4	149.9	120.0	157.4	202.4	269.9	172.4	157.4
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	7122.4	7122.4	7122.4	7122.4	7122.4	7122.4	7122.4	7122.4	7122.4	7122.4
2.5°	7257.3	7189.9	7189.9	7174.9	7114.9	7099.9	7047.4	7062.4	7024.9	6987.4
5°	7512.2	7422.3	7422.3	7294.8	7174.9	7159.9	7099.9	7099.9	7039.9	7054.9
7.5°	7864.6	7782.1	7647.2	7534.7	7369.8	7302.3	7189.9	7174.9	7159.9	7129.9
10°	8284.5	8179.5	8044.5	7812.1	7677.2	7549.7	7437.3	7279.8	7242.3	7249.8
12.5°	8854.3	8689.3	8396.9	8194.5	8022.1	7857.1	7692.2	7459.8	7407.3	7429.8
15°	9259.1	9049.2	8756.8	8681.8	8449.4	8247.0	7977.1	7714.7	7624.7	7602.2
17.5°	9589.0	9416.5	9244.1	9131.7	8944.2	8696.8	8321.9	8022.1	7819.6	7797.1
20°	9858.9	9634.0	9596.5	9664.0	9431.5	9266.6	8809.3	8441.9	8172.0	8059.5
22.5°	10023.8	9881.4	9986.3	10046.3	10031.3	9753.9	9281.6	8854.3	8516.9	8411.9
25°	10203.8	10038.8	10413.7	10616.1	10668.6	10211.3	9843.9	9281.6	8951.7	8884.2
27.5°	10293.7	10353.7	10788.5	11215.9	11178.4	10826.0	10331.2	9828.9	9566.5	9446.5
30°	10556.1	10653.6	11313.4	11793.2	11800.7	11455.8	11080.9	10511.1	10218.8	10166.3
32.5°	11028.5	11148.4	11853.2	12363.0	12452.9	12190.5	11815.7	11463.3	11163.4	11043.4
35°	11388.3	11695.7	12490.4	12955.2	13195.2	13037.7	12827.8	12460.4	12145.5	12040.6
37.5°	11905.6	12333.0	13097.7	13727.5	13997.4	13982.4	13824.9	13427.6	13165.2	13075.2
40°	12647.9	13075.2	13772.4	14604.6	15107.0	15084.5	14994.5	14687.1	14297.3	14252.3
42.5°	13435.1	13787.4	14694.6	15646.8	16366.5	16291.5	16051.6	15691.7	15421.8	15361.9
45°	14199.8	14747.1	15586.8	16808.8	17348.6	17536.1	17251.2	16636.4	16329.0	16291.5
47.5°	15159.4	15594.3	16643.9	17738.5	18540.7	18570.7	18083.4	17513.6	16951.3	17071.2
50°	16014.1	16591.4	17656.0	18855.6	19815.2	19470.4	18848.1	18135.8	17731.0	17573.6
52.5°	16928.8	17633.5	18870.6	20092.6	20624.9	20280.1	19267.9	18473.2	17858.4	17791.0
55°	18263.3	18630.7	20250.1	21187.2	21359.7	20632.4	19140.5	18015.9	17221.2	17026.3
57.5°	19620.3	20047.6	21464.6	22274.3	22094.4	20437.5	18315.8	16576.4	15534.3	15256.9
60°	20992.3	21517.1	22709.2	23451.4	22521.7	19095.5	15984.1	13742.5	12527.9	12280.5
62.5°	22521.7	23204.0	24268.6	24531.0	21254.7	16441.5	12685.3	9918.9	8689.3	8277.0
65°	23878.7	24576.0	25888.0	24306.1	18563.2	12265.5	8202.0	5667.9	4760.8	4430.9
67.5°	24995.8	25783.0	26427.8	21509.6	13592.5	7182.4	4273.4	2983.9	2646.5	2526.6
70°	25880.5	27192.5	24178.6	15811.7	7767.2	3501.2	2309.2	1964.3	1919.3	1889.3
72.5°	25108.3	24935.9	18053.4	9124.2	3403.8	1926.8	1671.9	1619.4	1611.9	1619.4
75°	20535.0	18315.8	10796.0	3966.0	1709.4	1394.5	1387.0	1364.5	1402.0	1402.0
77.5°	9963.8	8711.8	4513.3	1701.9	1124.6	1094.6	1132.1	1132.1	1132.1	1132.1
80°	2309.2	2556.6	1611.9	1034.6	817.2	817.2	899.7	907.2	869.7	854.7
82.5°	787.2	1049.6	884.7	652.3	539.8	607.3	682.2	697.2	577.3	584.8
85°	389.9	614.8	479.8	374.9	277.4	374.9	442.3	464.8	397.4	382.4
87.5°	179.9	269.9	179.9	127.5	97.5	135.0	127.5	105.0	60.0	60.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)