

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: McGRAW-EDISON

Report Number: P522788

Luminaire Tested: **GALN-SA5D-740-U-T4W**

Issue Date: 5/13/2021

Test Information

Test Method: LM-79-08
Report Number: P522788
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2011-042-41)
Test Lab: INNOVATION CENTER
Issue Date: 5/13/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA5D-740-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 38769 lumens
Efficiency: N/A
Efficacy: 125.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B4 - U0 - G5

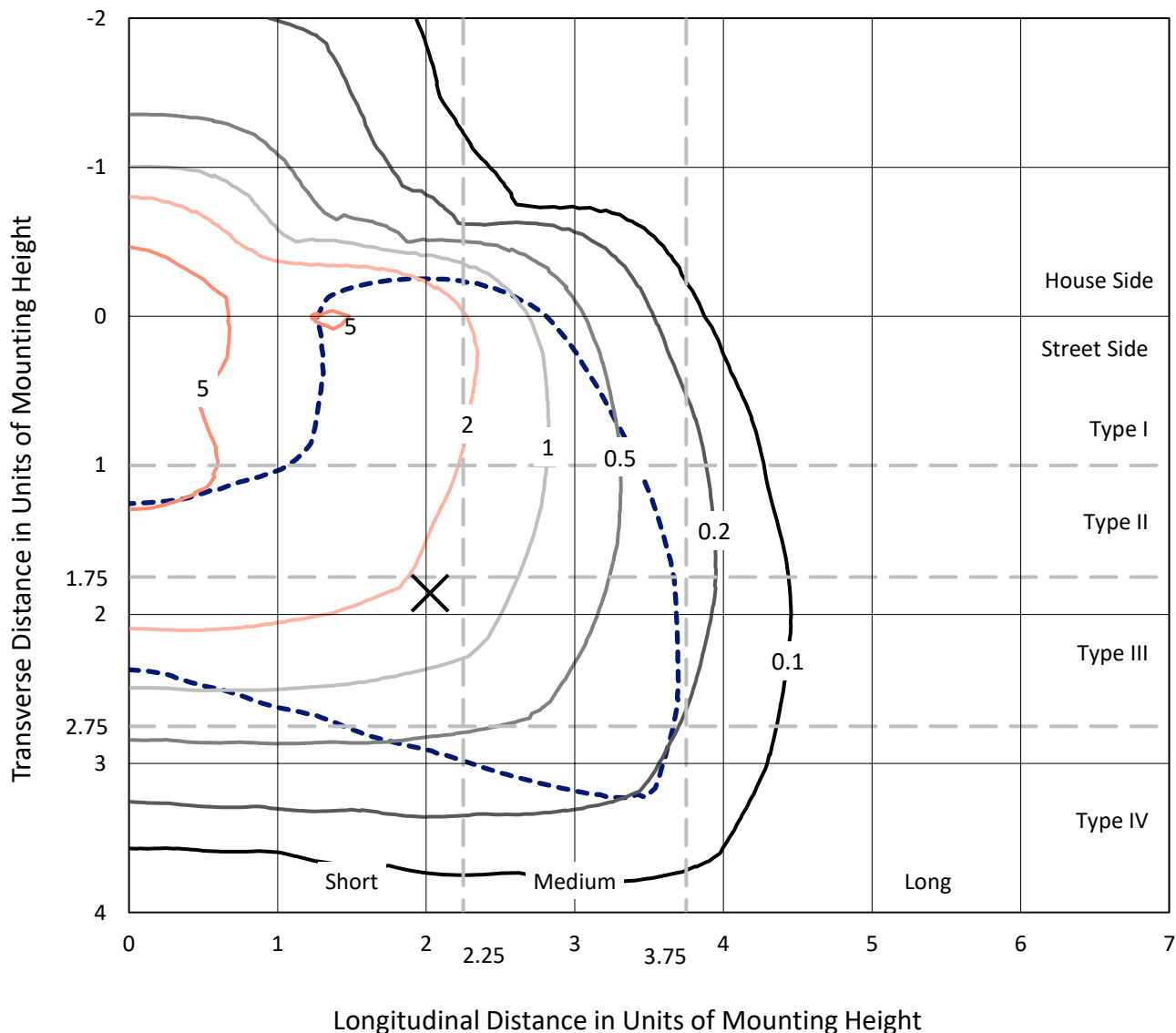
Input Watts (W): 309
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

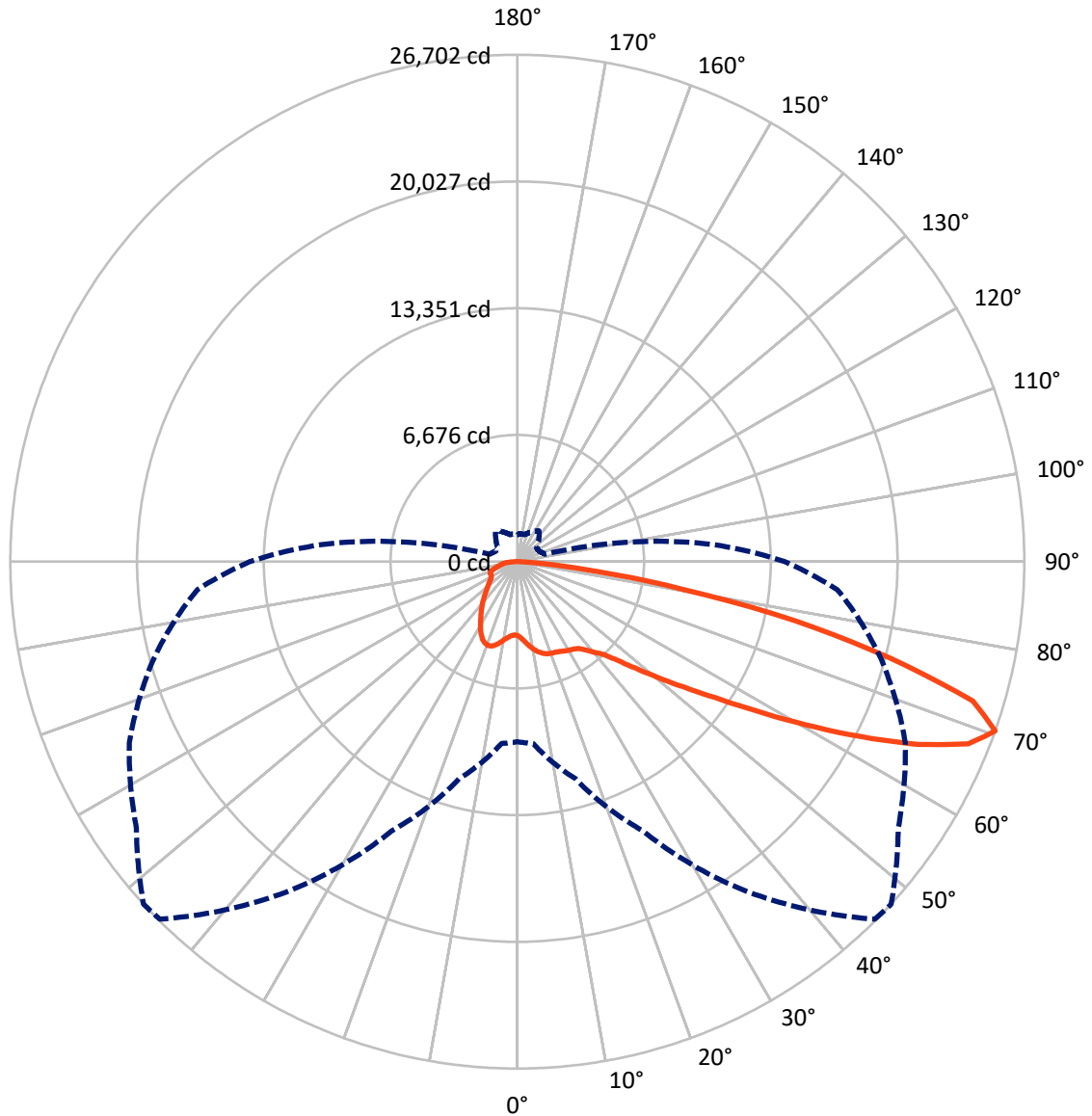
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.9 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 47.5-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical



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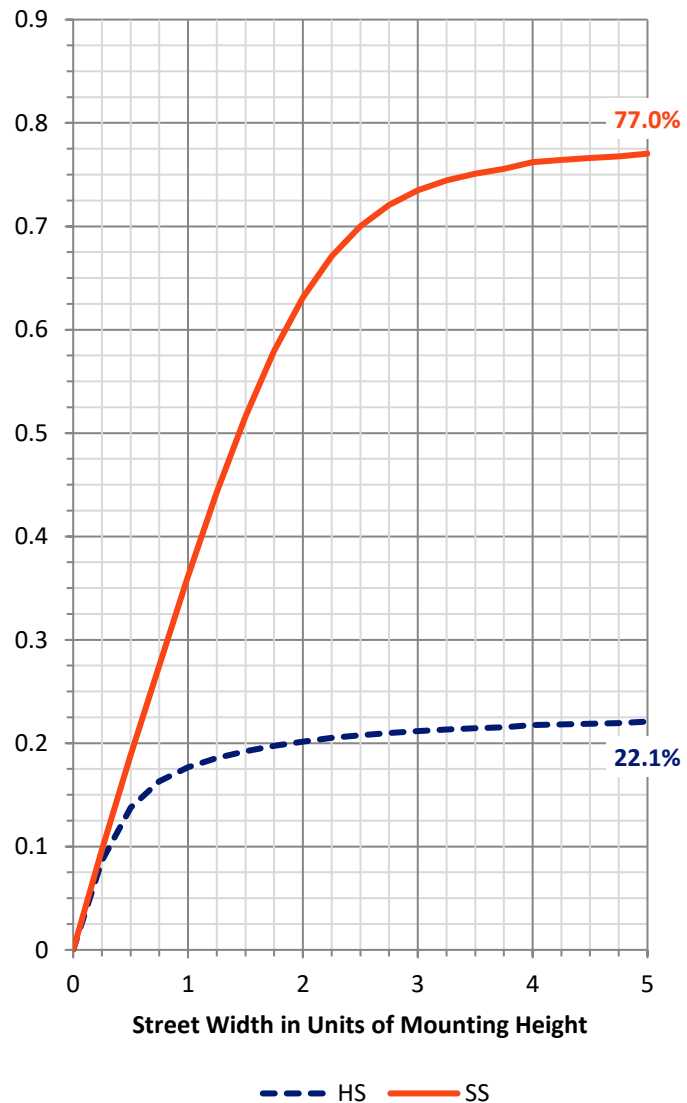
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8778.1	0.0	8778.1
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	29990.9	0.0	29990.9
	% Fixture	77.4	0.0	77.4
Total	Lumens	38769.0	0.0	38769.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	401.2	1.0
10°-20°	1341.2	3.5
20°-30°	2230.3	5.8
30°-40°	3161.2	8.2
40°-50°	4666.6	12.0
50°-60°	8082.7	20.8
60°-70°	11417.1	29.4
70°-80°	6563.2	16.9
80°-90°	905.6	2.3
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°	38769.0	100.0
0°-180°	38769.0	100.0

Coefficient of Utilization



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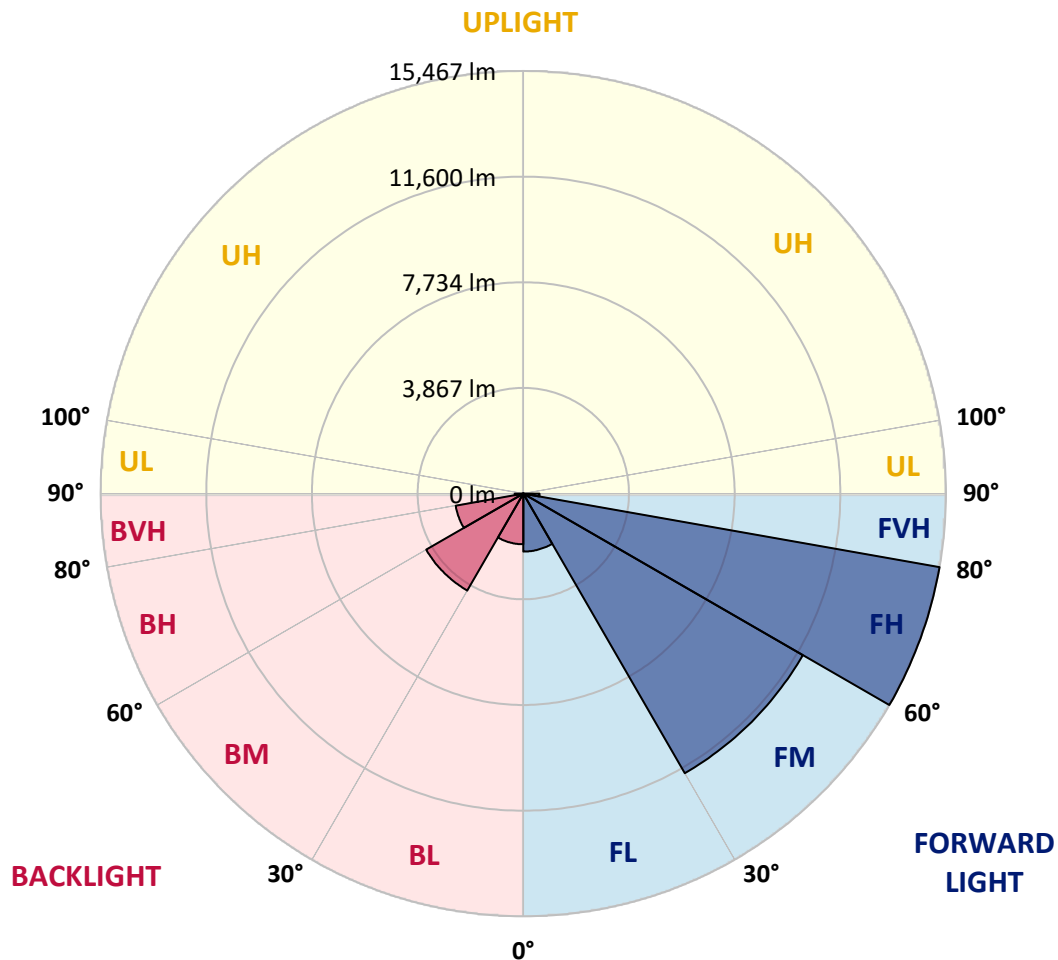
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2120.0	5.5			
FM (30°-60°)	11812.2	30.5			
FH (60°-80°)	15467.2	39.9			G5
FVH (80°-90°)	591.5	1.5			G4/750
BL (0°-30°)	1852.7	4.8	B3/2500		
BM (30°-60°)	4098.3	10.6	B3/5000		
BH (60°-80°)	2513.0	6.5	B4/5000		G4/5000
BVH (80°-90°)	314.0	0.8			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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47.5°	55°	65°	75°	85°
0°	3891.9	3891.9	3891.9	3891.9	3891.9	3891.9	3891.9	3891.9	3891.9	3891.9	3891.9
2.5°	4143.0	4128.4	4126.4	4095.3	4078.7	4047.5	4035.1	4006.0	3970.8	3935.5	3902.3
5°	4468.7	4468.7	4454.2	4410.6	4342.1	4271.6	4240.5	4184.5	4084.9	4004.0	3935.5
7.5°	4802.7	4806.8	4777.8	4713.5	4616.0	4501.9	4472.8	4389.8	4248.8	4130.5	4028.9
10°	5091.1	5091.1	5051.6	4964.5	4842.1	4717.6	4688.6	4595.2	4437.6	4290.3	4157.5
12.5°	5311.0	5311.0	5259.1	5145.0	5012.2	4900.2	4867.0	4777.8	4630.5	4466.6	4298.6
15°	5454.1	5443.7	5385.6	5257.0	5128.4	5030.9	5008.1	4933.4	4798.5	4632.6	4443.8
17.5°	5460.3	5456.2	5400.2	5292.3	5180.3	5113.9	5099.4	5049.6	4943.8	4786.1	4586.9
20°	5340.0	5348.3	5311.0	5234.2	5180.3	5151.2	5145.0	5128.4	5053.7	4906.4	4707.3
22.5°	5211.4	5225.9	5190.6	5149.1	5145.0	5174.0	5178.2	5182.3	5134.6	4991.5	4808.9
25°	5180.3	5190.6	5155.4	5118.0	5140.8	5217.6	5234.2	5250.8	5213.5	5093.1	4929.2
27.5°	5337.9	5329.6	5261.2	5180.3	5194.8	5298.5	5321.3	5340.0	5321.3	5217.6	5078.6
30°	5784.0	5757.0	5620.1	5383.6	5308.9	5381.5	5404.3	5456.2	5456.2	5379.4	5240.4
32.5°	6530.8	6479.0	6227.9	5763.2	5503.9	5460.3	5483.2	5568.2	5611.8	5551.6	5400.2
35°	7437.4	7383.5	7024.6	6400.1	5860.7	5618.0	5611.8	5707.2	5823.4	5688.5	5491.5
37.5°	8348.2	8292.2	7860.6	7159.4	6381.5	5949.9	5912.6	5945.8	5995.6	5748.7	5618.0
40°	9258.9	9192.5	8815.0	8007.9	7018.4	6389.8	6292.2	6142.9	6122.1	5945.8	5862.8
42.5°	10161.4	10101.2	9910.3	8960.2	7781.8	6819.2	6669.8	6412.6	6491.4	6385.6	6313.0
45°	11072.1	11076.3	10873.0	10028.6	8702.9	7611.7	7410.5	7008.0	7194.7	7155.3	7196.8
47.5°	11879.1	11868.8	11796.1	11065.9	9846.0	8632.4	8373.1	7906.3	8225.8	8371.0	8688.4
50°	12661.3	12655.0	12659.2	12242.2	11173.8	9846.0	9559.7	9070.1	9790.0	10294.1	10862.6
52.5°	13781.5	13816.8	13565.8	13455.8	12787.8	11279.6	10964.2	10458.0	11638.5	12433.1	13543.0
55°	14906.0	14876.9	14679.8	14793.9	14476.5	12976.6	12646.7	12244.3	13696.5	14565.7	16233.7
57.5°	15567.8	15578.1	15779.4	16337.4	16561.5	15092.7	14793.9	14482.8	16009.7	16625.8	18627.8
60°	16163.2	16210.9	16789.7	17843.6	18451.5	17692.2	17426.6	17123.7	18132.0	18376.8	20706.5
62.5°	16349.9	16497.2	17507.5	19084.2	20293.7	20625.6	20295.8	19627.7	20152.6	20057.2	22115.2
65°	15418.4	15619.6	17430.8	19548.9	21938.8	23409.7	23200.2	21959.6	21874.5	21299.9	22345.5
67.5°	12966.2	13167.5	15493.1	18573.9	22619.3	25820.4	25610.9	23660.8	22920.1	21416.0	20602.8
70°	9487.1	9613.7	11837.6	15638.3	21252.2	26629.5	26702.1	24490.6	22546.7	19837.3	16916.3
72.5°	5466.6	5746.6	7304.7	11001.6	17362.3	24584.0	25088.1	22764.5	20185.8	16549.0	11827.3
75°	2350.5	2356.7	3377.4	6068.2	11758.8	19760.5	20248.1	18870.5	15852.0	11443.5	6315.1
77.5°	1118.2	1139.0	1485.4	2709.4	6472.7	13652.9	14968.2	13331.4	10138.5	5497.7	2385.8
80°	726.1	740.6	908.7	1344.3	3174.1	7916.7	8833.6	7690.5	4472.8	1964.6	1029.0
82.5°	439.8	444.0	607.9	821.5	1746.8	3584.9	4226.0	3338.0	1908.6	1176.3	605.8
85°	267.6	269.7	369.3	508.3	1060.1	1238.5	1271.7	1261.4	1120.3	769.7	323.6
87.5°	128.6	132.8	190.9	240.7	417.0	383.8	363.1	421.1	529.0	414.9	139.0
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°	3891.9	3891.9	3891.9	3891.9	3891.9	3891.9	3891.9	3891.9	3891.9	3891.9	3891.9
2.5°	3887.8	3881.6	3867.0	3860.8	3856.7	3858.7	3856.7	3856.7	3858.7	3858.7	3858.7
5°	3906.5	3896.1	3873.3	3873.3	3885.7	3914.8	3941.7	3962.5	3985.3	3983.2	3983.2
7.5°	3987.4	3968.7	3941.7	3950.0	3981.1	4026.8	4074.5	4120.1	4165.8	4169.9	4167.9
10°	4105.6	4087.0	4057.9	4068.3	4118.1	4186.5	4246.7	4313.1	4362.9	4377.4	4373.2
12.5°	4240.5	4203.1	4178.2	4207.3	4286.1	4377.4	4435.5	4485.3	4520.5	4541.3	4533.0
15°	4377.4	4342.1	4313.1	4373.2	4468.7	4553.7	4582.8	4591.1	4597.3	4618.0	4613.9
17.5°	4510.2	4462.5	4452.1	4530.9	4622.2	4659.5	4642.9	4607.7	4580.7	4597.3	4595.2
20°	4628.4	4591.1	4586.9	4665.8	4701.0	4665.8	4595.2	4533.0	4485.3	4489.4	4487.4
22.5°	4740.5	4711.4	4715.6	4748.7	4692.7	4572.4	4456.2	4371.2	4319.3	4329.7	4335.9
25°	4864.9	4835.9	4846.3	4792.3	4607.7	4398.1	4230.1	4157.5	4136.7	4157.5	4172.0
27.5°	5026.7	5008.1	5001.8	4794.4	4456.2	4140.9	3950.0	3923.1	3941.7	3987.4	4010.2
30°	5201.0	5201.0	5167.8	4759.1	4248.8	3831.8	3665.8	3670.0	3734.3	3798.6	3821.4
32.5°	5369.1	5404.3	5300.6	4663.7	3981.1	3531.0	3404.4	3408.6	3464.6	3543.4	3564.2
35°	5508.1	5609.7	5414.7	4489.4	3665.8	3277.9	3182.4	3126.4	3128.5	3188.7	3205.3
37.5°	5698.9	5887.7	5481.1	4230.1	3329.7	3062.1	2954.2	2856.7	2792.4	2767.5	2767.5
40°	6030.8	6308.8	5497.7	3846.3	3012.3	2856.7	2703.2	2587.0	2462.5	2350.5	2329.8
42.5°	6593.1	6943.7	5464.5	3404.4	2726.0	2630.6	2481.2	2338.1	2165.9	2008.2	1995.8
45°	7588.9	7769.4	5375.3	2945.9	2470.8	2412.8	2267.5	2111.9	1929.4	1788.3	1777.9
47.5°	9184.2	8929.1	5257.0	2539.3	2238.5	2221.9	2109.9	1929.4	1746.8	1649.3	1638.9
50°	11514.0	10754.7	5240.4	2244.7	2051.8	2060.1	1968.8	1802.8	1643.1	1562.2	1549.7
52.5°	14318.9	12960.0	5350.4	2037.3	1887.9	1919.0	1873.4	1719.8	1578.8	1510.3	1497.9
55°	17040.7	14943.3	5416.8	1875.4	1734.4	1792.5	1798.7	1670.0	1541.4	1473.0	1464.7
57.5°	19250.2	16437.0	5122.2	1728.1	1601.6	1690.8	1736.4	1641.0	1522.8	1470.9	1462.6
60°	20787.4	17142.4	4284.0	1597.4	1504.1	1609.9	1713.6	1643.1	1568.4	1574.6	1578.8
62.5°	21277.1	16829.1	3213.5	1499.9	1437.7	1582.9	1751.0	1728.1	1651.4	1699.1	1707.4
65°	20465.9	15534.6	2329.8	1423.2	1379.6	1601.6	1863.0	1790.4	1622.3	1657.6	1657.6
67.5°	17750.2	13383.2	1813.2	1352.6	1313.2	1636.9	1975.0	1784.2	1553.9	1595.4	1558.0
70°	14080.3	10352.2	1510.3	1273.8	1242.7	1585.0	1985.4	1719.8	1473.0	1481.3	1410.7
72.5°	9344.0	6806.7	1298.7	1199.1	1134.8	1425.2	1900.3	1636.9	1394.1	1346.4	1275.9
75°	4578.6	3394.0	1132.7	1105.8	993.7	1240.6	1784.2	1558.0	1309.1	1234.4	1195.0
77.5°	1773.8	1443.9	966.8	987.5	865.1	1093.3	1630.6	1446.0	1197.0	1095.4	1064.3
80°	861.0	819.5	792.5	823.6	711.6	931.5	1489.6	1348.5	1093.3	981.3	935.6
82.5°	535.2	506.2	607.9	641.1	547.7	850.6	1412.8	1265.5	962.6	813.2	775.9
85°	271.8	290.4	406.6	437.7	392.1	676.3	1163.8	950.2	695.0	576.7	580.9
87.5°	103.7	139.0	213.7	230.3	209.5	356.8	641.1	553.9	446.0	302.9	280.1
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)