

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: P522815

Luminaire Tested: **GALN-SA6C-740-U-T4W**

Issue Date: 5/13/2021

Test Information

Test Method: LM-79-08
Report Number: P522815
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-SA6C-740-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 41720 lumens
Efficiency: N/A
Efficacy: 130.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B4 - U0 - G5

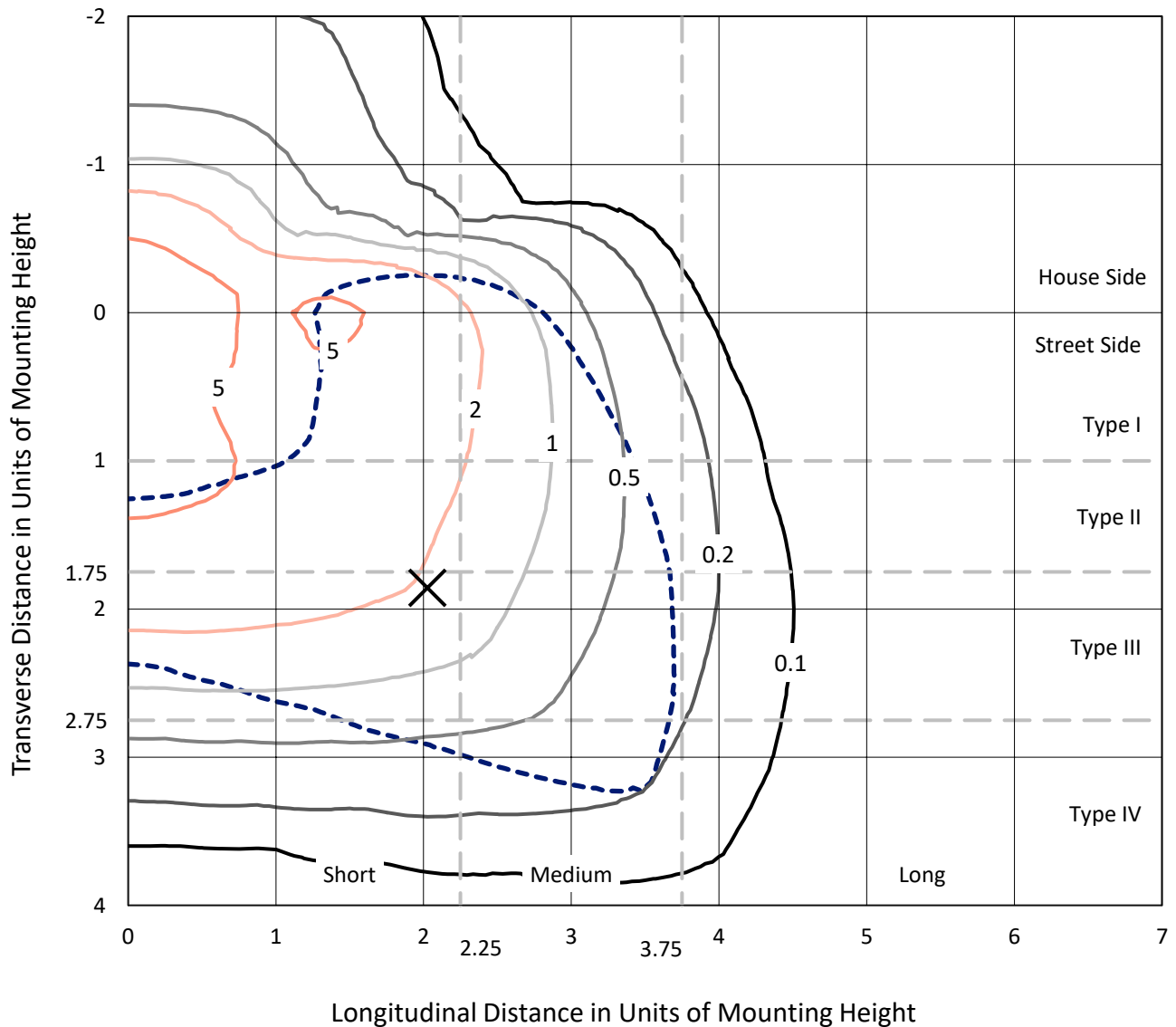
Input Watts (W): 321
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P522815
 CATALOG NUMBER: GALN-SA6C-740-U-T4W

Iso-Footcandle Lines of Horizontal Illumination

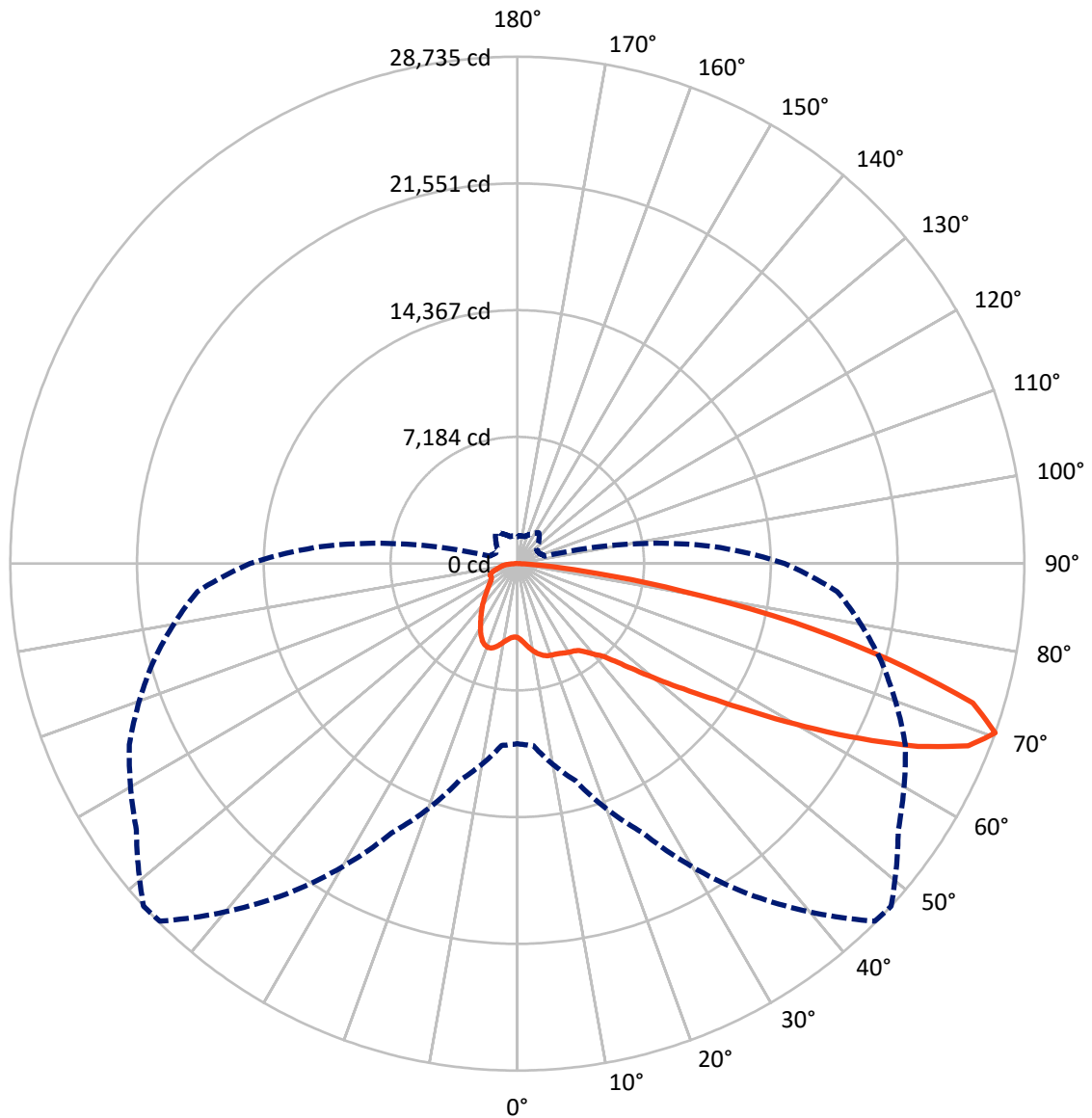
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.5 fc
 Type IV - Short - N/A

REPORT NUMBER: P522815
CATALOG NUMBER: GALN-SA6C-740-U-T4W

Luminous Intensity Polar Plot



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

REPORT NUMBER: P522815

CATALOG NUMBER: GALN-SA6C-740-U-T4W

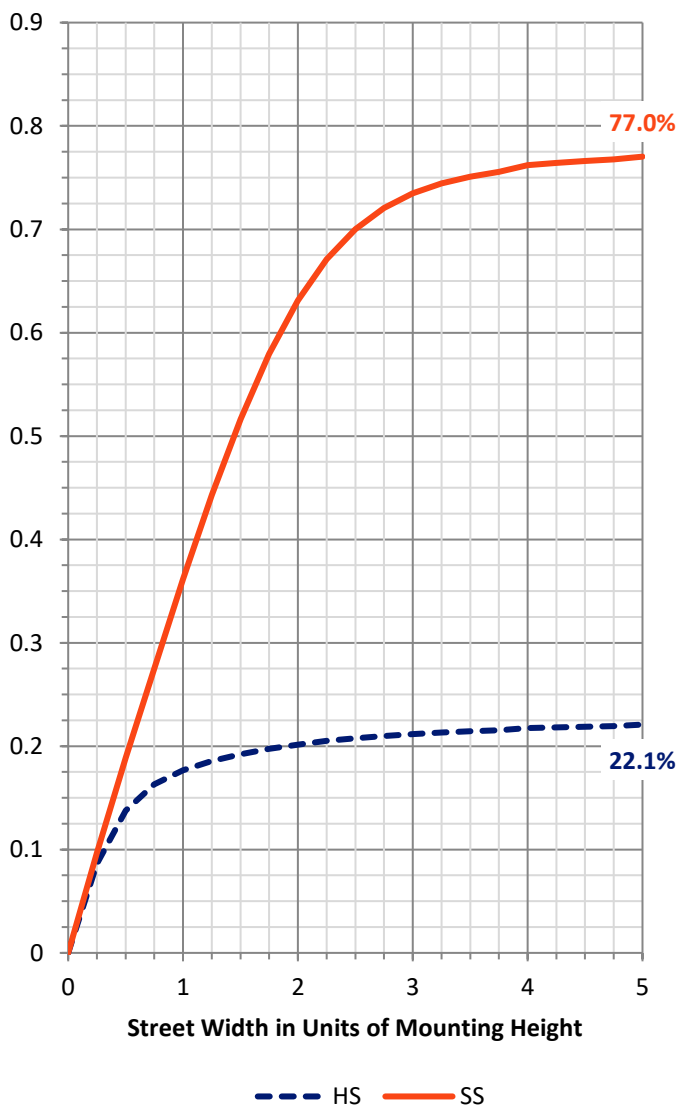
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9446.2	0.0	9446.2
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	32273.8	0.0	32273.8
	% Fixture	77.4	0.0	77.4
Total	Lumens	41720.0	0.0	41720.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	431.7	1.0
10°-20°	1443.3	3.5
20°-30°	2400.1	5.8
30°-40°	3401.8	8.2
40°-50°	5021.8	12.0
50°-60°	8698.0	20.8
60°-70°	12286.1	29.4
70°-80°	7062.7	16.9
80°-90°	974.5	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°	41720.0	100.0
0°-180°	41720.0	100.0

Coefficient of Utilization



REPORT NUMBER: P522815

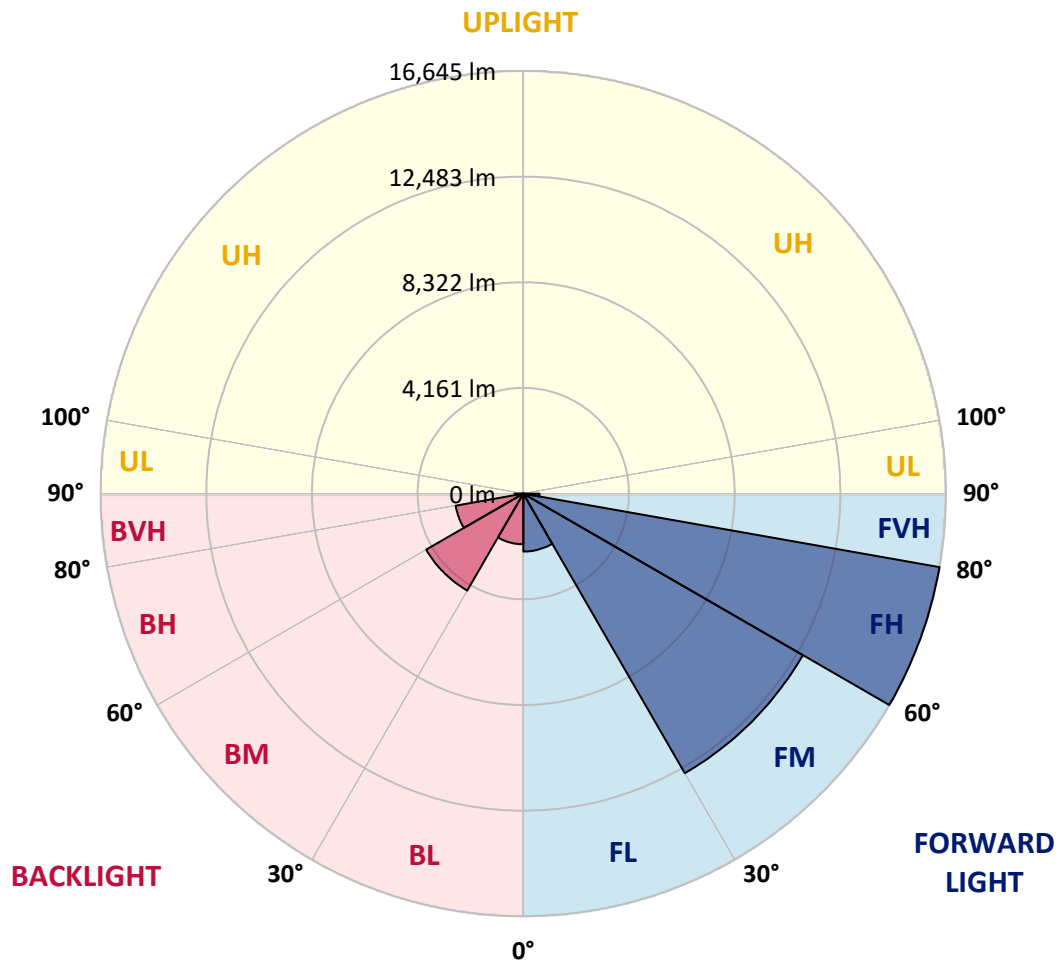
CATALOG NUMBER: GALN-SA6C-740-U-T4W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2281.4	5.5			
FM	(30°-60°)	12711.3	30.5			
FH	(60°-80°)	16644.5	39.9			G5
FVH	(80°-90°)	636.6	1.5			G4/750
BL	(0°-30°)	1993.7	4.8	B3/2500		
BM	(30°-60°)	4410.3	10.6	B3/5000		
BH	(60°-80°)	2704.3	6.5	B4/5000		G4/5000
BVH	(80°-90°)	337.9	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





REPORT NUMBER: P522815

CATALOG NUMBER: GALN-SA6C-740-U-T4W

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47.5°	55°	65°	75°	85°
0°	4188.2	4188.2	4188.2	4188.2	4188.2	4188.2	4188.2	4188.2	4188.2	4188.2	4188.2
2.5°	4458.3	4442.7	4440.5	4407.0	4389.1	4355.6	4342.2	4311.0	4273.0	4235.1	4199.3
5°	4808.8	4808.8	4793.2	4746.3	4672.6	4596.7	4563.2	4503.0	4395.8	4308.7	4235.1
7.5°	5168.3	5172.7	5141.5	5072.3	4967.3	4844.5	4813.3	4724.0	4572.2	4444.9	4335.5
10°	5478.6	5478.6	5436.2	5342.4	5210.7	5076.7	5045.5	4945.0	4775.3	4616.8	4473.9
12.5°	5715.2	5715.2	5659.4	5536.6	5393.7	5273.2	5237.5	5141.5	4983.0	4806.6	4625.8
15°	5869.3	5858.1	5795.6	5657.2	5518.8	5413.8	5389.3	5308.9	5163.8	4985.2	4782.0
17.5°	5876.0	5871.5	5811.2	5695.1	5574.6	5503.1	5487.5	5433.9	5320.1	5150.4	4936.1
20°	5746.5	5755.4	5715.2	5632.6	5574.6	5543.3	5536.6	5518.8	5438.4	5279.9	5065.6
22.5°	5608.1	5623.7	5585.7	5541.1	5536.6	5567.9	5572.3	5576.8	5525.5	5371.4	5175.0
25°	5574.6	5585.7	5547.8	5507.6	5532.2	5614.8	5632.6	5650.5	5610.3	5480.8	5304.4
27.5°	5744.2	5735.3	5661.6	5574.6	5590.2	5701.8	5726.4	5746.5	5726.4	5614.8	5465.2
30°	6224.2	6195.2	6047.9	5793.4	5713.0	5791.1	5815.7	5871.5	5871.5	5788.9	5639.3
32.5°	7027.9	6972.1	6702.0	6201.9	5922.8	5876.0	5900.5	5992.1	6038.9	5974.2	5811.2
35°	8003.5	7945.5	7559.3	6887.3	6306.8	6045.6	6038.9	6141.6	6266.7	6121.5	5909.5
37.5°	8983.6	8923.3	8459.0	7704.4	6867.2	6402.8	6362.6	6398.4	6451.9	6186.3	6045.6
40°	9963.7	9892.2	9485.9	8617.5	7552.6	6876.1	6771.2	6610.5	6588.1	6398.4	6309.1
42.5°	10934.8	10870.1	10664.7	9642.2	8374.1	7338.3	7177.5	6900.7	6985.5	6871.7	6793.5
45°	11914.9	11919.4	11700.6	10791.9	9365.4	8191.1	7974.5	7541.4	7742.3	7699.9	7744.6
47.5°	12783.3	12772.2	12694.0	11908.2	10595.5	9289.5	9010.4	8508.1	8851.9	9008.2	9349.7
50°	13625.0	13618.3	13622.8	13174.0	12024.3	10595.5	10287.4	9760.5	10535.2	11077.7	11689.4
52.5°	14830.6	14868.5	14598.4	14480.1	13761.2	12138.1	11798.8	11254.1	12524.4	13379.4	14573.8
55°	16040.6	16009.3	15797.2	15920.0	15578.4	13964.3	13609.4	13176.3	14739.0	15674.4	17469.4
57.5°	16752.7	16763.9	16980.5	17581.0	17822.1	16241.5	15920.0	15585.1	17228.3	17891.3	20045.7
60°	17393.5	17444.8	18067.7	19201.8	19855.9	19038.8	18753.1	18427.1	19512.1	19775.6	22282.7
62.5°	17594.4	17752.9	18840.1	20536.8	21838.4	22195.6	21840.6	21121.8	21686.6	21583.9	23798.5
65°	16592.0	16808.6	18757.5	21036.9	23608.8	25191.6	24966.1	23631.1	23539.6	22921.2	24046.3
67.5°	13953.2	14169.7	16672.4	19987.6	24341.0	27785.8	27560.3	25461.8	24664.8	23046.2	22171.0
70°	10209.3	10345.4	12738.7	16828.6	22869.8	28656.5	28734.6	26354.8	24262.9	21347.2	18203.9
72.5°	5882.7	6184.0	7860.7	11839.0	18683.9	26455.2	26997.7	24497.3	21722.3	17808.7	12727.5
75°	2529.4	2536.1	3634.5	6530.1	12653.9	21264.6	21789.3	20306.9	17058.6	12314.5	6795.8
77.5°	1203.3	1225.6	1598.5	2915.7	6965.4	14692.1	16107.5	14346.1	10910.3	5916.1	2567.4
80°	781.4	797.0	977.8	1446.7	3415.7	8519.3	9506.0	8275.9	4813.3	2114.2	1107.3
82.5°	473.3	477.8	654.1	884.1	1879.8	3857.8	4547.6	3592.1	2053.9	1265.8	651.9
85°	288.0	290.2	397.4	547.0	1140.8	1332.8	1368.5	1357.4	1205.6	828.3	348.3
87.5°	138.4	142.9	205.4	259.0	448.7	413.0	390.7	453.2	569.3	446.5	149.6
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: P522815
 CATALOG NUMBER: GALN-SA6C-740-U-T4W

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4188.2	4188.2	4188.2	4188.2	4188.2	4188.2	4188.2	4188.2	4188.2	4188.2	4188.2
2.5°	4183.7	4177.0	4161.4	4154.7	4150.2	4152.5	4150.2	4150.2	4152.5	4152.5	4152.5
5°	4203.8	4192.7	4168.1	4168.1	4181.5	4212.7	4241.8	4264.1	4288.6	4286.4	4286.4
7.5°	4290.9	4270.8	4241.8	4250.7	4284.2	4333.3	4384.6	4433.8	4482.9	4487.3	4485.1
10°	4418.1	4398.0	4366.8	4377.9	4431.5	4505.2	4569.9	4641.4	4695.0	4710.6	4706.1
12.5°	4563.2	4523.1	4496.3	4527.5	4612.4	4710.6	4773.1	4826.7	4864.6	4887.0	4878.0
15°	4710.6	4672.6	4641.4	4706.1	4808.8	4900.4	4931.6	4940.5	4947.2	4969.6	4965.1
17.5°	4853.5	4802.1	4791.0	4875.8	4974.0	5014.2	4996.4	4958.4	4929.4	4947.2	4945.0
20°	4980.7	4940.5	4936.1	5020.9	5058.9	5020.9	4945.0	4878.0	4826.7	4831.1	4828.9
22.5°	5101.3	5070.0	5074.5	5110.2	5049.9	4920.4	4795.4	4703.9	4648.1	4659.2	4665.9
25°	5235.2	5204.0	5215.1	5157.1	4958.4	4732.9	4552.1	4473.9	4451.6	4473.9	4489.6
27.5°	5409.4	5389.3	5382.6	5159.3	4795.4	4456.1	4250.7	4221.7	4241.8	4290.9	4315.4
30°	5596.9	5596.9	5561.2	5121.4	4572.2	4123.4	3944.8	3949.3	4018.5	4087.7	4112.3
32.5°	5777.7	5815.7	5704.1	5018.7	4284.2	3799.7	3663.5	3668.0	3728.3	3813.1	3835.4
35°	5927.3	6036.7	5826.8	4831.1	3944.8	3527.4	3424.7	3364.4	3366.6	3431.4	3449.2
37.5°	6132.7	6335.9	5898.3	4552.1	3583.2	3295.2	3179.1	3074.2	3005.0	2978.2	2978.2
40°	6489.9	6789.1	5916.1	4139.1	3241.6	3074.2	2909.0	2783.9	2650.0	2529.4	2507.1
42.5°	7094.9	7472.2	5880.4	3663.5	2933.5	2830.8	2670.1	2516.0	2330.7	2161.1	2147.7
45°	8166.5	8360.7	5784.4	3170.2	2658.9	2596.4	2440.1	2272.7	2076.2	1924.4	1913.3
47.5°	9883.3	9608.7	5657.2	2732.6	2408.9	2391.0	2270.5	2076.2	1879.8	1774.8	1763.7
50°	12390.4	11573.3	5639.3	2415.6	2208.0	2216.9	2118.7	1940.0	1768.1	1681.1	1667.7
52.5°	15408.8	13946.5	5757.6	2192.3	2031.6	2065.1	2016.0	1850.7	1698.9	1625.3	1611.9
55°	18337.8	16080.8	5829.1	2018.2	1866.4	1928.9	1935.6	1797.2	1658.8	1585.1	1576.2
57.5°	20715.4	17688.2	5512.1	1859.7	1723.5	1819.5	1868.6	1765.9	1638.7	1582.8	1573.9
60°	22369.7	18447.2	4610.1	1719.0	1618.6	1732.4	1844.1	1768.1	1687.8	1694.5	1698.9
62.5°	22896.6	18110.1	3458.2	1614.1	1547.1	1703.4	1884.2	1859.7	1777.1	1828.4	1837.4
65°	22023.7	16717.0	2507.1	1531.5	1484.6	1723.5	2004.8	1926.7	1745.8	1783.8	1783.8
67.5°	19101.3	14401.9	1951.2	1455.6	1413.2	1761.4	2125.3	1920.0	1672.1	1716.8	1676.6
70°	15152.0	11140.2	1625.3	1370.8	1337.3	1705.6	2136.5	1850.7	1585.1	1594.0	1518.1
72.5°	10055.2	7324.9	1397.6	1290.4	1221.2	1533.7	2045.0	1761.4	1500.2	1448.9	1373.0
75°	4927.1	3652.4	1218.9	1189.9	1069.4	1335.0	1920.0	1676.6	1408.7	1328.3	1285.9
77.5°	1908.8	1553.8	1040.3	1062.7	931.0	1176.5	1754.8	1556.1	1288.2	1178.8	1145.3
80°	926.5	881.8	852.8	886.3	765.8	1002.4	1602.9	1451.1	1176.5	1056.0	1006.9
82.5°	576.0	544.7	654.1	689.8	589.4	915.3	1520.3	1361.8	1035.9	875.1	835.0
85°	292.5	312.6	437.6	471.1	421.9	727.8	1252.4	1022.5	747.9	620.6	625.1
87.5°	111.6	149.6	229.9	247.8	225.5	384.0	689.8	596.1	480.0	325.9	301.4
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)