

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: P522826

Luminaire Tested: **GALN-SA6D-760-U-T4W**

Issue Date: 5/13/2021

Test Information

Test Method: LM-79-08
Report Number: P522826
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-SA6D-760-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 5700K, 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: 45907 lumens
Efficiency: N/A
Efficacy: 124.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B4 - U0 - G5

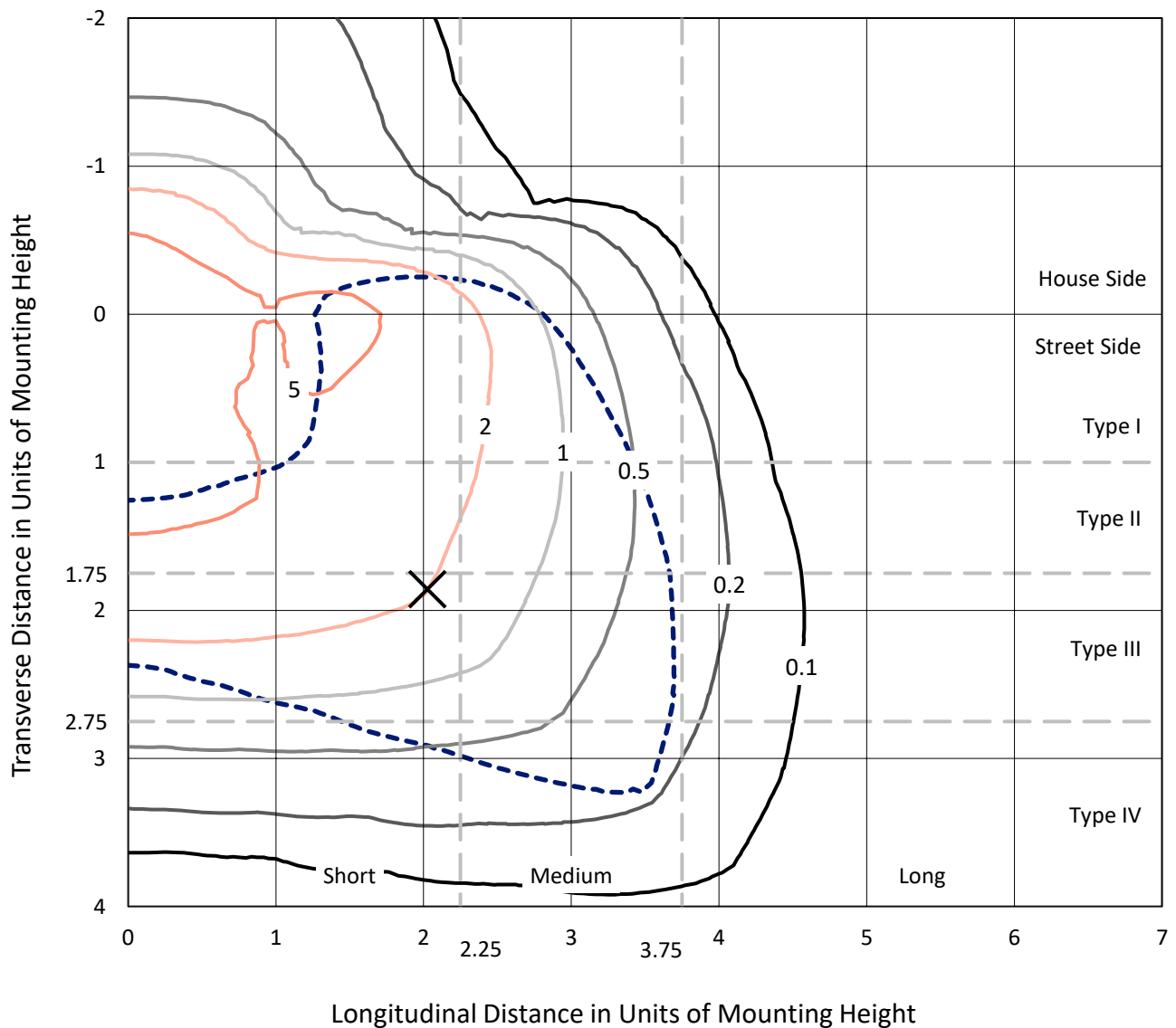
Input Watts (W): 368
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

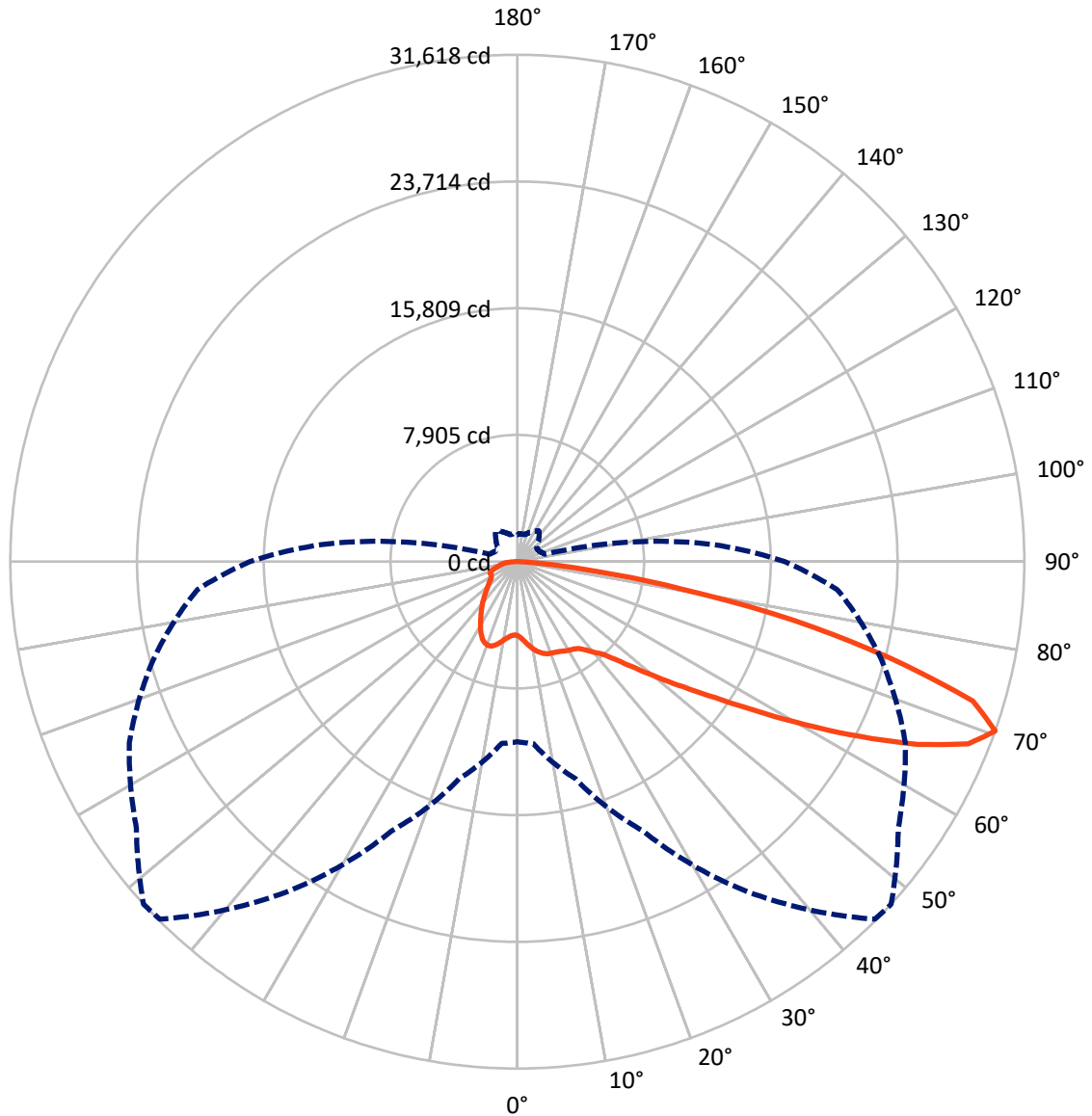
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.3 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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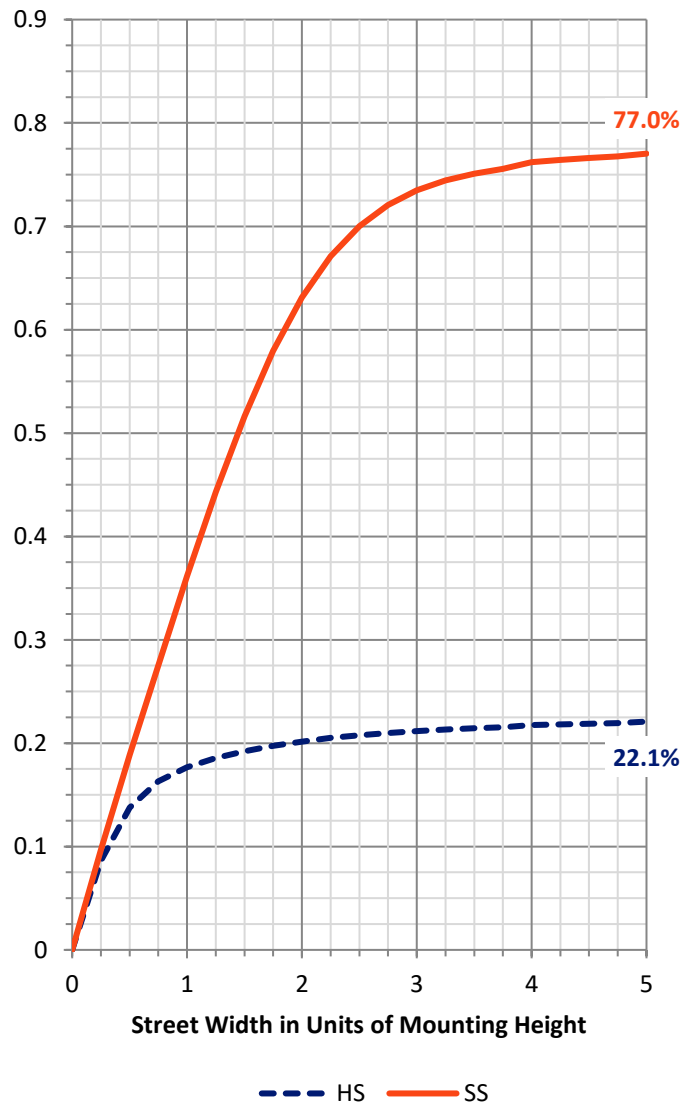
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10394.2	0.0	10394.2
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	35512.8	0.0	35512.8
	% Fixture	77.4	0.0	77.4
Total	Lumens	45907.0	0.0	45907.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	475.0	1.0
10°-20°	1588.1	3.5
20°-30°	2641.0	5.8
30°-40°	3743.2	8.2
40°-50°	5525.8	12.0
50°-60°	9570.9	20.8
60°-70°	13519.2	29.4
70°-80°	7771.6	16.9
80°-90°	1072.3	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°	45907.0	100.0
0°-180°	45907.0	100.0



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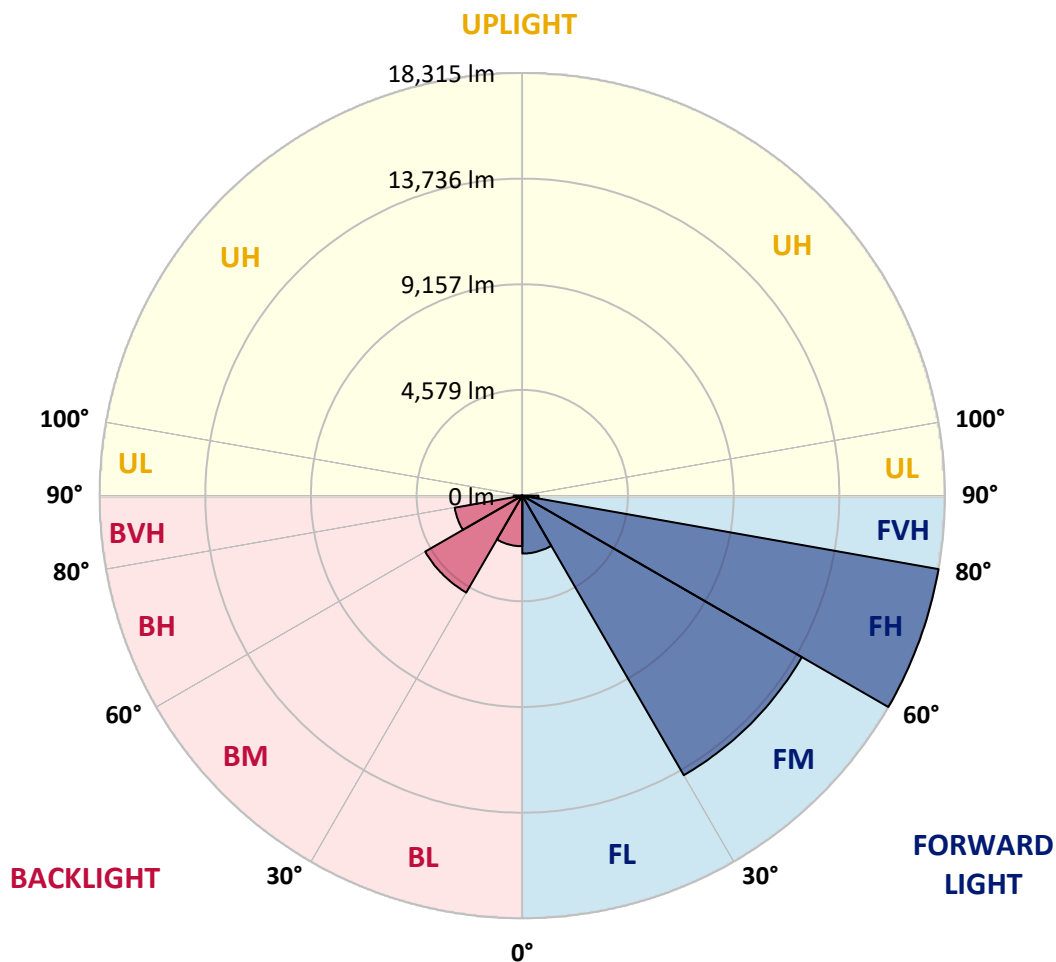
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2510.4	5.5			
FM	(30°-60°)	13987.0	30.5			
FH	(60°-80°)	18315.0	39.9			G5
FVH	(80°-90°)	700.4	1.5			G4/750
BL	(0°-30°)	2193.8	4.8	B3/2500		
BM	(30°-60°)	4852.9	10.6	B3/5000		
BH	(60°-80°)	2975.7	6.5	B4/5000		G4/5000
BVH	(80°-90°)	371.8	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°	4608.5	4608.5	4608.5	4608.5	4608.5	4608.5	4608.5	4608.5	4608.5	4608.5	4608.5
2.5°	4905.8	4888.6	4886.1	4849.3	4829.6	4792.8	4778.0	4743.6	4701.9	4660.1	4620.8
5°	5291.4	5291.4	5274.2	5222.7	5141.6	5058.1	5021.2	4954.9	4837.0	4741.2	4660.1
7.5°	5686.9	5691.9	5657.5	5581.3	5465.9	5330.7	5296.3	5198.1	5031.0	4891.0	4770.6
10°	6028.4	6028.4	5981.7	5878.6	5733.6	5586.2	5551.8	5441.3	5254.6	5080.2	4923.0
12.5°	6288.8	6288.8	6227.4	6092.3	5935.1	5802.4	5763.1	5657.5	5483.0	5289.0	5090.0
15°	6458.3	6446.0	6377.2	6224.9	6072.6	5957.2	5930.1	5841.7	5682.0	5485.5	5262.0
17.5°	6465.7	6460.8	6394.4	6266.7	6134.0	6055.4	6038.2	5979.3	5854.0	5667.3	5431.5
20°	6323.2	6333.0	6288.8	6197.9	6134.0	6099.6	6092.3	6072.6	5984.2	5809.8	5573.9
22.5°	6170.9	6188.1	6146.3	6097.2	6092.3	6126.7	6131.6	6136.5	6080.0	5910.5	5694.3
25°	6134.0	6146.3	6104.6	6060.3	6087.4	6178.3	6197.9	6217.6	6173.3	6030.9	5836.8
27.5°	6320.7	6310.9	6229.8	6134.0	6151.2	6274.1	6301.1	6323.2	6301.1	6178.3	6013.7
30°	6848.9	6817.0	6654.8	6374.8	6286.3	6372.3	6399.3	6460.8	6460.8	6369.9	6205.3
32.5°	7733.3	7671.8	7374.6	6824.3	6517.3	6465.7	6492.7	6593.4	6645.0	6573.8	6394.4
35°	8806.8	8742.9	8317.9	7578.5	6939.8	6652.4	6645.0	6758.0	6895.6	6735.9	6502.5
37.5°	9885.2	9818.9	9307.9	8477.6	7556.4	7045.4	7001.2	7040.5	7099.5	6807.1	6652.4
40°	10963.6	10885.0	10437.9	9482.3	8310.5	7566.2	7450.8	7273.9	7249.3	7040.5	6942.2
42.5°	12032.2	11961.0	11735.0	10609.9	9214.6	8074.7	7897.8	7593.2	7686.6	7561.3	7475.3
45°	13110.7	13115.6	12874.8	11875.0	10305.3	9013.1	8774.8	8298.3	8519.4	8472.7	8521.8
47.5°	14066.3	14054.0	13968.0	13103.3	11658.8	10221.8	9914.7	9362.0	9740.3	9912.2	10288.1
50°	14992.4	14985.0	14989.9	14496.2	13231.0	11658.8	11319.8	10740.1	11592.5	12189.5	12862.6
52.5°	16318.9	16360.7	16063.5	15933.3	15142.2	13356.3	12982.9	12383.5	13781.3	14722.2	16036.4
55°	17650.4	17616.0	17382.6	17517.7	17141.9	15365.8	14975.2	14498.6	16218.2	17247.5	19222.6
57.5°	18434.0	18446.3	18684.6	19345.4	19610.7	17871.5	17517.7	17149.3	18957.3	19686.9	22057.5
60°	19139.1	19195.6	19881.0	21128.9	21848.7	20949.6	20635.1	20276.5	21470.4	21760.2	24518.9
62.5°	19360.2	19534.6	20730.9	22597.9	24030.1	24423.1	24032.5	23241.5	23863.0	23750.0	26187.0
65°	18257.2	18495.5	20640.0	23148.2	25978.1	27719.8	27471.7	26002.7	25902.0	25221.5	26459.6
67.5°	15353.5	15591.8	18345.6	21993.6	26783.9	30574.4	30326.3	28017.1	27140.1	25359.1	24396.1
70°	11233.9	11383.7	14017.1	18517.6	25165.0	31532.4	31618.4	28999.7	26697.9	23489.6	20030.8
72.5°	6473.0	6804.7	8649.6	13027.1	20559.0	29110.3	29707.2	26955.9	23902.3	19596.0	14004.9
75°	2783.3	2790.7	3999.3	7185.4	13923.8	23398.8	23976.0	22344.9	18770.6	13550.4	7477.8
77.5°	1324.1	1348.7	1758.9	3208.3	7664.5	16166.6	17724.1	15785.9	12005.2	6509.9	2825.0
80°	859.8	877.0	1076.0	1591.9	3758.5	9374.2	10460.0	9106.5	5296.3	2326.4	1218.5
82.5°	520.8	525.7	719.8	972.8	2068.4	4244.9	5004.0	3952.6	2260.0	1392.9	717.3
85°	316.9	319.4	437.3	601.9	1255.3	1466.6	1505.9	1493.6	1326.5	911.4	383.2
87.5°	152.3	157.2	226.0	285.0	493.8	454.5	429.9	498.7	626.4	491.3	164.6
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°	4608.5	4608.5	4608.5	4608.5	4608.5	4608.5	4608.5	4608.5	4608.5	4608.5	4608.5
2.5°	4603.6	4596.2	4579.0	4571.7	4566.7	4569.2	4566.7	4566.7	4569.2	4569.2	4569.2
5°	4625.7	4613.4	4586.4	4586.4	4601.1	4635.5	4667.5	4692.0	4719.1	4716.6	4716.6
7.5°	4721.5	4699.4	4667.5	4677.3	4714.1	4768.2	4824.7	4878.7	4932.8	4937.7	4935.2
10°	4861.5	4839.4	4805.0	4817.3	4876.3	4957.3	5028.6	5107.2	5166.2	5183.3	5178.4
12.5°	5021.2	4977.0	4947.5	4981.9	5075.3	5183.3	5252.1	5311.1	5352.8	5377.4	5367.6
15°	5183.3	5141.6	5107.2	5178.4	5291.4	5392.2	5426.5	5436.4	5443.7	5468.3	5463.4
17.5°	5340.6	5284.1	5271.8	5365.1	5473.2	5517.4	5497.8	5456.0	5424.1	5443.7	5441.3
20°	5480.6	5436.4	5431.5	5524.8	5566.6	5524.8	5441.3	5367.6	5311.1	5316.0	5313.5
22.5°	5613.2	5578.9	5583.8	5623.1	5556.7	5414.3	5276.7	5176.0	5114.6	5126.8	5134.2
25°	5760.6	5726.2	5738.5	5674.7	5456.0	5207.9	5008.9	4923.0	4898.4	4923.0	4940.1
27.5°	5952.2	5930.1	5922.8	5677.1	5276.7	4903.3	4677.3	4645.4	4667.5	4721.5	4748.5
30°	6158.6	6158.6	6119.3	5635.4	5031.0	4537.3	4340.7	4345.7	4421.8	4498.0	4525.0
32.5°	6357.6	6399.3	6276.5	5522.4	4714.1	4181.1	4031.2	4036.1	4102.5	4195.8	4220.4
35°	6522.2	6642.5	6411.6	5316.0	4340.7	3881.4	3768.4	3702.0	3704.5	3775.7	3795.4
37.5°	6748.2	6971.7	6490.2	5008.9	3942.8	3625.9	3498.1	3382.7	3306.5	3277.1	3277.1
40°	7141.2	7470.4	6509.9	4554.5	3566.9	3382.7	3200.9	3063.3	2915.9	2783.3	2758.7
42.5°	7807.0	8222.1	6470.6	4031.2	3227.9	3114.9	2938.0	2768.5	2564.7	2378.0	2363.2
45°	8986.1	9199.8	6365.0	3488.3	2925.8	2857.0	2685.0	2500.8	2284.6	2117.6	2105.3
47.5°	10875.2	10573.0	6224.9	3006.8	2650.6	2631.0	2498.3	2284.6	2068.4	1953.0	1940.7
50°	13633.9	12734.8	6205.3	2658.0	2429.5	2439.4	2331.3	2134.8	1945.6	1849.8	1835.1
52.5°	16955.2	15346.1	6335.5	2412.3	2235.5	2272.3	2218.3	2036.5	1869.4	1788.4	1773.6
55°	20178.2	17694.6	6414.1	2220.7	2053.7	2122.5	2129.8	1977.5	1825.2	1744.2	1734.3
57.5°	22794.4	19463.3	6065.3	2046.3	1896.5	2002.1	2056.1	1943.1	1803.1	1741.7	1731.9
60°	24614.8	20298.6	5072.8	1891.6	1781.0	1906.3	2029.1	1945.6	1857.2	1864.5	1869.4
62.5°	25194.5	19927.6	3805.2	1776.1	1702.4	1874.4	2073.3	2046.3	1955.4	2011.9	2021.8
65°	24234.0	18394.7	2758.7	1685.2	1633.6	1896.5	2206.0	2120.0	1921.0	1962.8	1962.8
67.5°	21018.3	15847.3	2147.0	1601.7	1555.0	1938.2	2338.6	2112.6	1840.0	1889.1	1844.9
70°	16672.7	12258.2	1788.4	1508.3	1471.5	1876.8	2350.9	2036.5	1744.2	1754.0	1670.5
72.5°	11064.4	8060.0	1537.8	1419.9	1343.7	1687.7	2250.2	1938.2	1650.8	1594.3	1510.8
75°	5421.6	4018.9	1341.3	1309.3	1176.7	1469.0	2112.6	1844.9	1550.1	1461.7	1415.0
77.5°	2100.4	1709.8	1144.8	1169.3	1024.4	1294.6	1930.9	1712.2	1417.4	1297.1	1260.2
80°	1019.5	970.3	938.4	975.3	842.6	1103.0	1763.8	1596.8	1294.6	1162.0	1107.9
82.5°	633.8	599.4	719.8	759.1	648.5	1007.2	1672.9	1498.5	1139.8	963.0	918.8
85°	321.8	343.9	481.5	518.3	464.3	800.8	1378.1	1125.1	822.9	682.9	687.8
87.5°	122.8	164.6	253.0	272.7	248.1	422.5	759.1	655.9	528.2	358.7	331.6
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)