

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: P646823

Luminaire Tested: **GALN-SA3C-835-U-AFL-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P646823
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-28)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA3C-835-U-AFL-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14828.4 lumens
Efficiency: N/A
Efficacy: 92.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

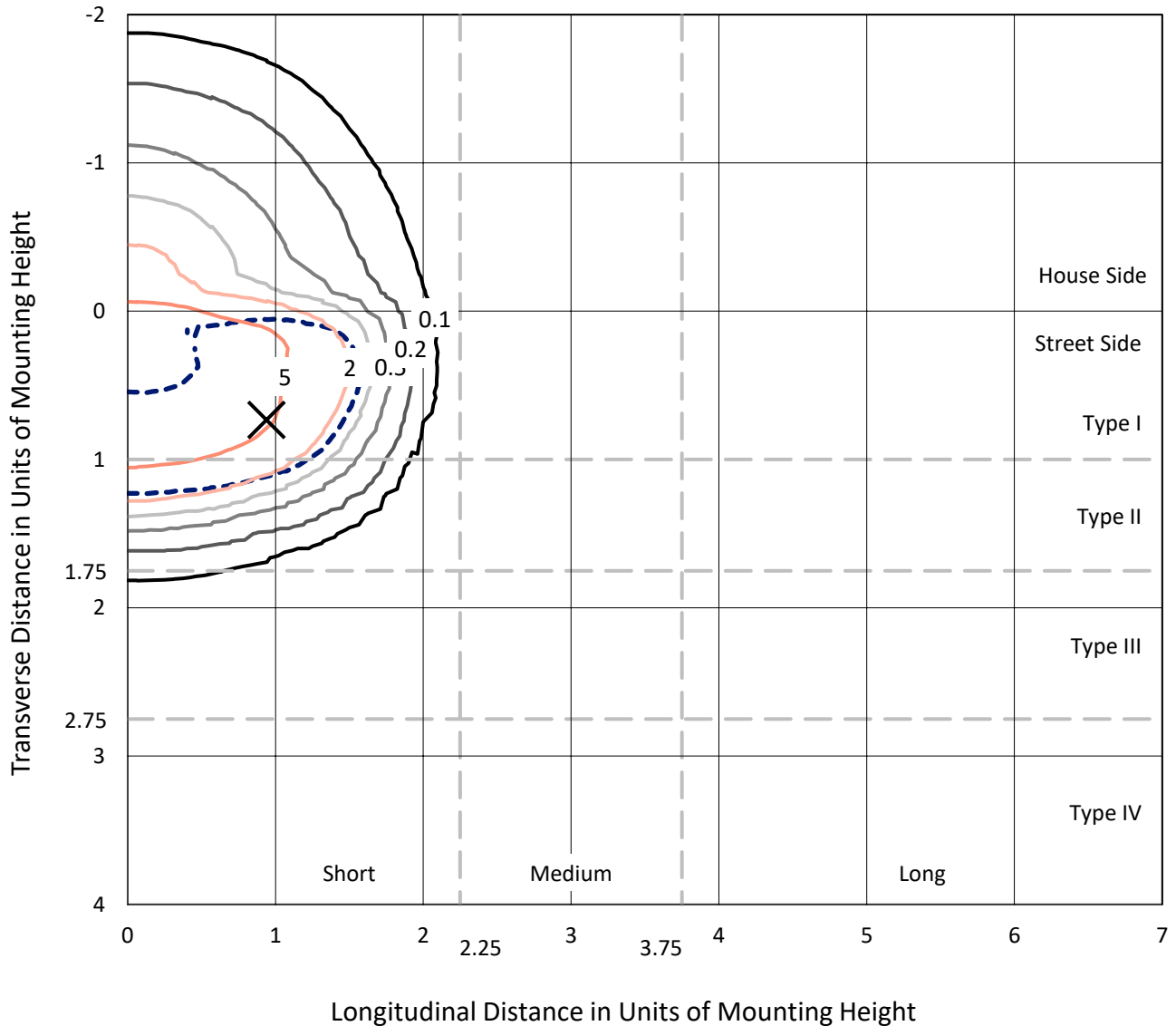
Input Watts (W): 160
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P646823
 CATALOG NUMBER: GALN-SA3C-835-U-AFL-GRSWH

Iso-Footcandle Lines of Horizontal Illumination

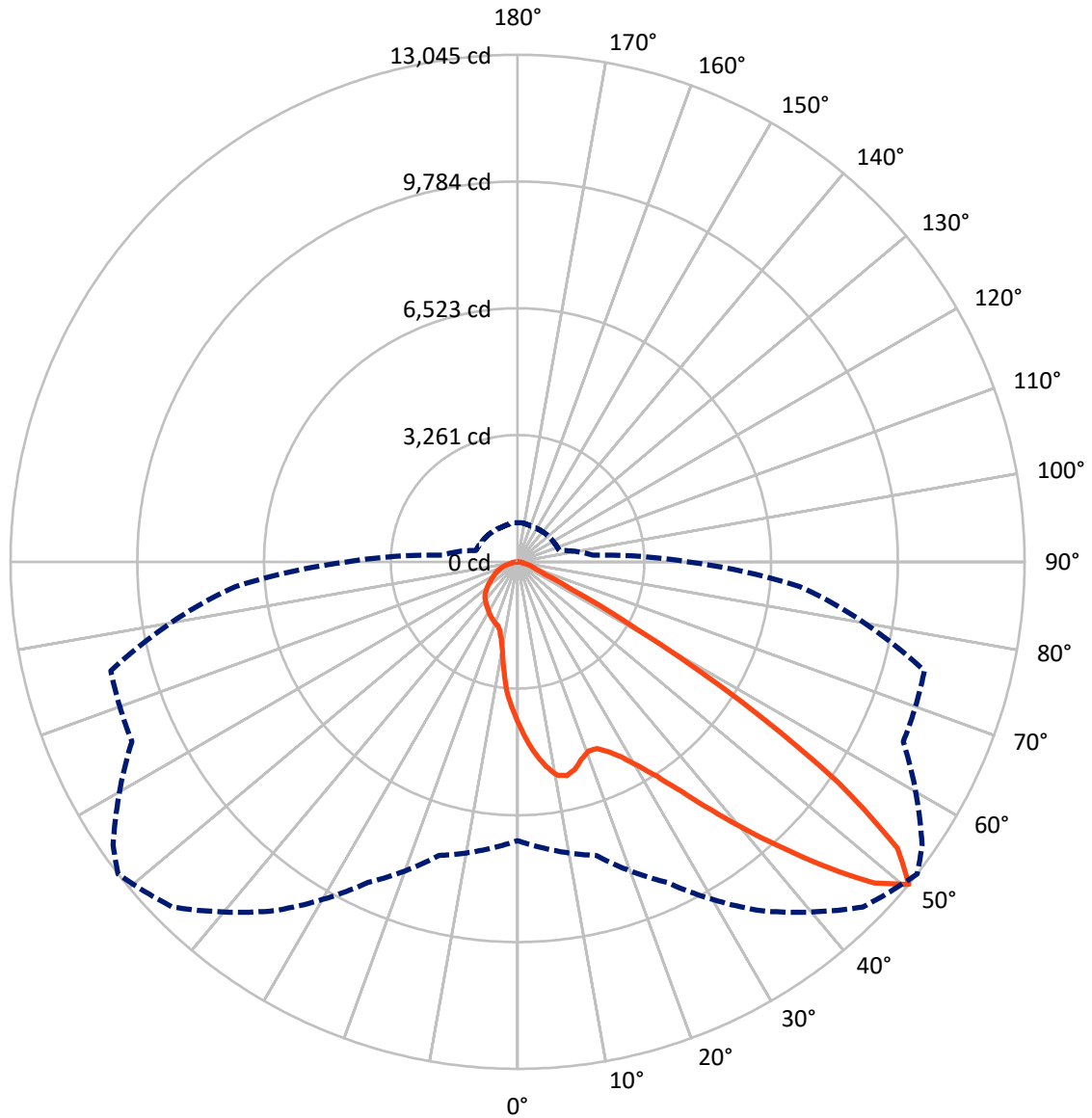
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.6 fc
 Type II - Short - N/A

REPORT NUMBER: P646823
CATALOG NUMBER: GALN-SA3C-835-U-AFL-GRSWH

Luminous Intensity Polar Plot



— Vertical Plane Through 52-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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 CATALOG NUMBER: GALN-SA3C-835-U-AFL-GRSWH

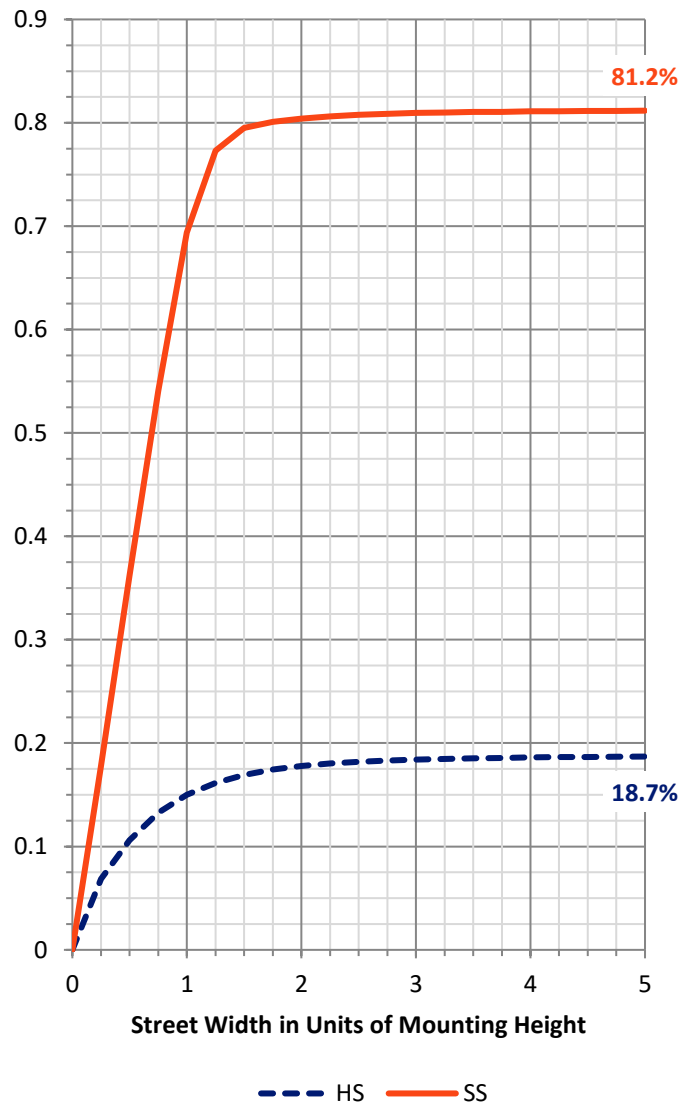
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2787.4	0.0	2787.4
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	12041.1	0.0	12041.1
	% Fixture	81.2	0.0	81.2
Total	Lumens	14828.4	0.0	14828.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	385.3	2.6
10°-20°	1032.6	7.0
20°-30°	1739.4	11.7
30°-40°	2918.8	19.7
40°-50°	4465.0	30.1
50°-60°	3255.4	22.0
60°-70°	724.5	4.9
70°-80°	261.3	1.8
80°-90°	46.2	0.3
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°	14828.4	100.0
0°-180°	14828.4	100.0

Coefficient of Utilization



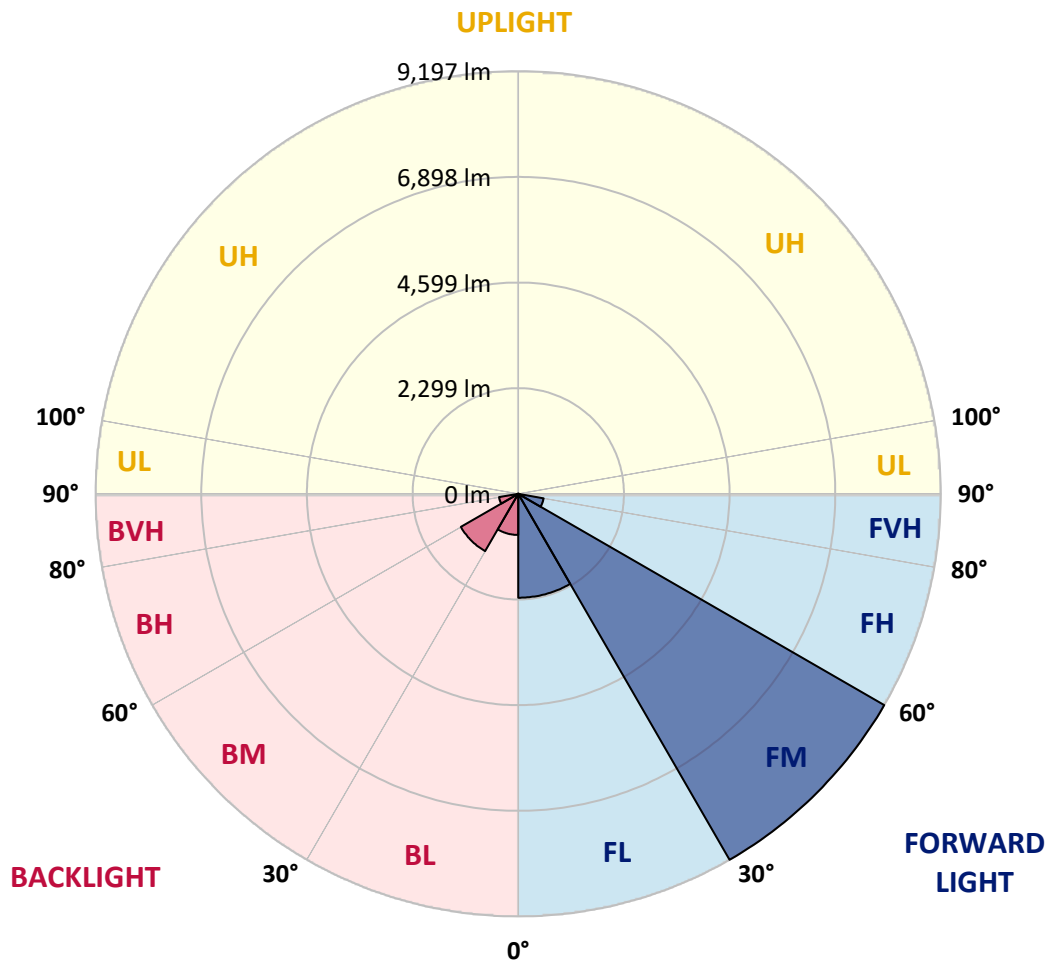
REPORT NUMBER: P646823
 CATALOG NUMBER: GALN-SA3C-835-U-AFL-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2261.8	15.3			
FM (30°-60°)	9197.4	62.0			
FH (60°-80°)	561.1	3.8			G0/660
FVH (80°-90°)	20.7	0.1			G1/100
BL (0°-30°)	895.4	6.0	B2/1000		
BM (30°-60°)	1441.8	9.7	B2/2500		
BH (60°-80°)	424.7	2.9	B1/500		G1/500
BVH (80°-90°)	25.5	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1

Type II Short





REPORT NUMBER: P646823

CATALOG NUMBER: GALN-SA3C-835-U-AFL-GRSWH

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	52°	55°	65°	75°	85°
0°	4179.9	4179.9	4179.9	4179.9	4179.9	4179.9	4179.9	4179.9	4179.9	4179.9	4179.9
2.5°	4921.5	4826.8	4837.5	4769.6	4696.4	4674.9	4599.8	4528.4	4474.8	4360.4	4255.0
5°	5379.0	5350.4	5307.5	5253.9	5198.5	5062.7	4985.8	4896.5	4700.0	4523.0	4347.8
7.5°	5445.1	5439.7	5463.0	5463.0	5482.6	5430.8	5321.8	5259.3	5050.2	4762.4	4437.3
10°	4980.5	4996.6	5109.2	5255.7	5459.4	5600.6	5582.7	5566.7	5337.9	4944.7	4542.7
12.5°	4610.5	4574.8	4640.9	4766.0	5071.6	5413.0	5643.5	5645.3	5586.3	5236.0	4619.5
15°	4401.5	4426.5	4444.4	4503.3	4733.9	5128.8	5534.5	5654.2	5913.3	5441.5	4741.1
17.5°	4535.5	4451.5	4448.0	4462.2	4580.2	4876.8	5332.5	5538.1	6092.1	5706.0	4891.2
20°	4710.7	4708.9	4658.8	4640.9	4639.2	4903.6	5200.3	5479.0	6186.7	6049.1	5043.1
22.5°	5018.0	5018.0	4935.8	4896.5	4812.5	5028.7	5218.1	5407.6	6344.0	6285.1	5116.3
25°	5532.7	5448.7	5307.5	5211.0	5162.8	5239.6	5407.6	5577.4	6481.6	6535.2	5268.2
27.5°	6008.0	5875.8	5806.1	5639.9	5575.6	5530.9	5684.6	5856.1	6642.4	6924.8	5350.4
30°	6547.8	6524.5	6399.4	6185.0	6025.9	5943.7	6084.8	6254.7	6937.3	7323.3	5539.8
32.5°	7512.7	7301.9	7132.1	6869.4	6610.2	6435.2	6574.5	6687.1	7427.0	7739.7	5747.1
35°	8554.6	8486.7	8193.6	7720.1	7323.3	7166.0	7248.2	7332.2	7997.0	8375.9	6095.6
37.5°	9578.5	9485.7	9244.4	8845.9	8363.4	8043.4	8102.5	8200.8	8636.8	9233.7	6520.9
40°	10314.9	10200.5	10078.9	10020.0	9541.0	9103.2	9069.3	9094.2	9501.7	10037.8	6992.7
42.5°	10368.4	10509.6	10547.2	10784.8	10672.2	10313.0	10103.9	10109.3	10327.3	10833.0	7469.8
45°	10255.8	10125.4	10402.4	11051.1	11422.8	11590.7	11238.7	11194.1	10838.4	11294.1	7707.5
47.5°	9074.6	9110.4	9578.5	10604.3	11678.4	12428.9	12346.7	12198.4	11111.9	11278.0	7670.0
50°	7173.2	7389.4	7823.7	9101.4	10963.5	12561.1	13045.4	12702.3	10949.2	10834.8	7287.5
52.5°	4776.8	4866.1	5152.1	6801.5	8815.5	11228.0	12241.3	12319.9	10799.1	10254.1	6803.3
55°	2126.5	2119.4	2521.5	3552.6	5530.9	8543.9	10002.1	10481.0	10221.9	9662.5	6331.5
57.5°	900.7	931.1	1095.5	1535.1	2719.9	5155.6	6776.5	7196.4	7861.2	7934.5	4857.2
60°	609.4	612.9	657.6	768.4	1138.3	2421.4	3554.4	4058.4	4533.7	4501.5	2576.9
62.5°	479.0	491.4	525.4	570.1	675.5	1099.0	1590.5	1871.1	1901.4	1599.4	977.5
65°	409.2	411.0	445.0	482.5	529.0	639.8	766.6	781.0	789.9	761.3	718.4
67.5°	337.8	341.3	368.2	411.0	453.9	489.7	525.4	543.2	584.4	664.8	654.0
70°	268.0	273.4	296.7	332.4	371.7	393.1	437.9	453.9	491.4	554.0	579.0
72.5°	203.7	205.5	225.2	250.2	286.0	307.4	344.9	362.8	387.8	441.4	464.6
75°	146.5	151.9	166.2	178.7	184.1	198.3	234.1	253.8	289.5	312.7	314.5
77.5°	76.8	80.4	84.0	84.0	101.9	128.6	151.9	162.6	187.6	205.5	196.6
80°	30.4	32.2	41.1	55.4	71.5	92.9	109.0	114.4	135.9	146.5	151.9
82.5°	17.9	19.7	26.8	39.3	51.8	66.1	78.6	84.0	98.3	110.8	114.4
85°	8.9	10.7	16.1	25.1	34.0	41.1	39.3	37.5	37.5	35.7	37.5
87.5°	3.6	3.6	5.3	5.3	5.3	7.1	8.9	8.9	8.9	10.7	10.7
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: P646823

CATALOG NUMBER: GALN-SA3C-835-U-AFL-GRSWH

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4179.9	4179.9	4179.9	4179.9	4179.9	4179.9	4179.9	4179.9	4179.9	4179.9	4179.9
2.5°	4185.3	4113.8	4047.6	3926.1	3793.9	3756.4	3602.7	3547.3	3508.0	3461.5	3447.2
5°	4206.7	4112.0	3899.3	3654.5	3459.7	3209.5	3045.1	2868.2	2739.6	2707.4	2698.5
7.5°	4251.4	4088.7	3722.4	3352.5	2953.9	2614.4	2355.3	2216.0	2092.6	2085.4	2073.0
10°	4301.4	4019.1	3529.4	2948.6	2439.3	2124.8	1969.3	1908.6	1878.2	1871.1	1867.5
12.5°	4342.5	4004.7	3313.2	2555.5	2074.8	1885.3	1838.9	1833.5	1846.0	1849.6	1856.7
15°	4360.4	3947.6	3052.3	2203.4	1847.8	1778.1	1797.8	1819.2	1828.1	1851.4	1833.5
17.5°	4394.4	3874.3	2730.6	1924.6	1721.0	1733.4	1767.4	1792.4	1806.7	1822.7	1799.6
20°	4412.2	3808.2	2428.6	1758.5	1676.2	1699.5	1745.9	1765.6	1783.4	1790.6	1763.8
22.5°	4396.2	3672.3	2162.3	1624.4	1633.3	1663.7	1704.8	1726.3	1715.6	1687.0	1670.9
25°	4353.2	3481.1	1885.3	1538.7	1572.6	1626.2	1658.4	1642.3	1622.6	1606.6	1601.2
27.5°	4351.4	3247.0	1685.2	1460.0	1520.7	1594.0	1583.3	1569.1	1578.0	1565.5	1551.1
30°	4360.4	3020.1	1520.7	1415.4	1483.2	1519.0	1531.5	1517.2	1527.9	1504.7	1511.8
32.5°	4313.9	2798.5	1413.5	1363.5	1438.6	1436.8	1477.9	1488.6	1463.6	1415.4	1422.5
35°	4333.6	2619.8	1322.4	1340.3	1388.5	1388.5	1420.7	1408.2	1342.1	1313.5	1320.6
37.5°	4469.4	2444.7	1277.7	1308.1	1340.3	1354.6	1343.9	1290.2	1274.2	1274.2	1277.7
40°	4598.1	2294.6	1250.9	1301.0	1295.6	1304.6	1225.9	1231.3	1231.3	1233.1	1224.1
42.5°	4712.4	2192.7	1229.5	1258.0	1267.1	1220.5	1172.3	1166.9	1179.4	1177.6	1170.5
45°	4753.5	2108.7	1199.1	1209.8	1216.9	1140.1	1116.9	1106.1	1120.5	1125.9	1133.0
47.5°	4596.3	2039.0	1165.2	1143.7	1129.4	1079.4	1049.0	1029.3	1047.2	1077.6	1084.8
50°	4394.4	1947.9	1111.5	1070.4	1040.1	1018.6	997.2	977.5	990.0	1011.5	1006.1
52.5°	4095.9	1804.9	1043.7	1000.8	948.9	954.3	934.6	923.9	931.1	931.1	925.7
55°	3670.6	1483.2	929.3	898.9	856.0	870.3	873.8	859.6	845.2	857.8	847.0
57.5°	2505.4	1047.2	829.2	829.2	786.3	805.9	804.1	770.2	736.3	739.9	732.7
60°	1449.3	834.5	764.8	757.7	713.0	729.1	732.7	709.5	657.6	661.2	654.0
62.5°	823.8	713.0	668.4	657.6	648.7	663.0	663.0	632.6	588.0	591.5	584.4
65°	700.6	661.2	596.9	595.1	591.5	595.1	580.8	548.6	509.3	493.2	495.0
67.5°	636.2	611.1	548.6	532.5	521.8	520.1	493.2	462.8	445.0	430.6	428.9
70°	557.6	537.9	491.4	470.0	459.3	434.3	407.5	387.8	362.8	355.6	362.8
72.5°	441.4	439.6	421.7	398.5	375.3	355.6	332.4	305.6	282.3	277.0	264.5
75°	305.6	309.1	312.7	309.1	289.5	264.5	237.6	216.3	187.6	171.6	168.0
77.5°	200.1	205.5	210.9	203.7	191.2	168.0	150.1	123.3	101.9	89.3	87.5
80°	146.5	153.7	157.2	151.9	137.6	119.7	100.1	78.6	62.6	51.8	51.8
82.5°	112.6	119.7	123.3	114.4	100.1	85.8	71.5	55.4	42.9	34.0	32.2
85°	39.3	37.5	44.7	46.4	55.4	51.8	42.9	32.2	25.1	17.9	16.1
87.5°	10.7	10.7	12.5	12.5	10.7	8.9	8.9	8.9	7.1	5.3	5.3
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)