

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: P453342

Luminaire Tested: **GALN-SA4B-760-U-T2R**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P453342
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-6)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA4B-760-U-T2R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 5700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22941 lumens
Efficiency: N/A
Efficacy: 139.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

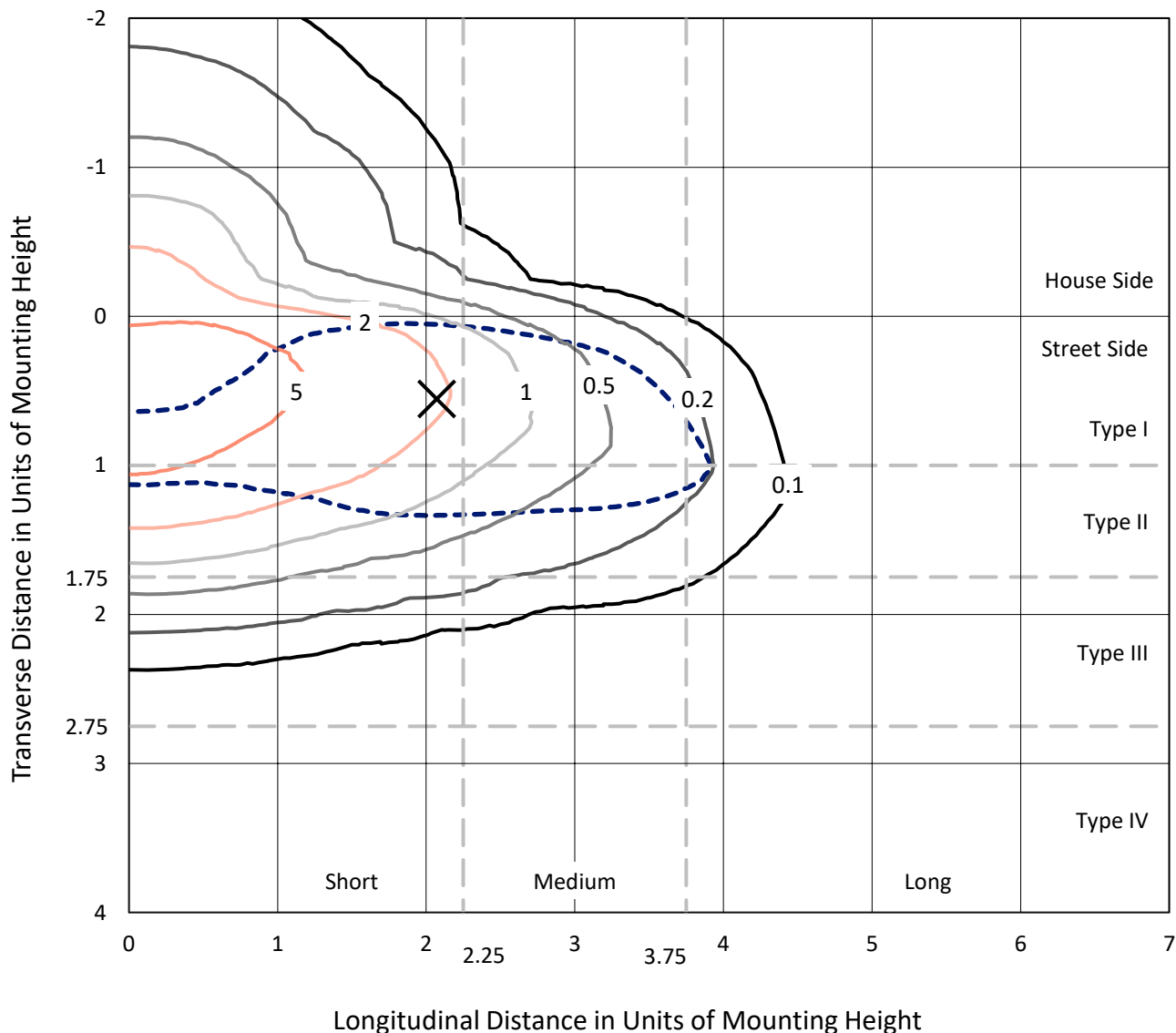
Input Watts (W): 164
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P453342
 CATALOG NUMBER: GALN-SA4B-760-U-T2R

Iso-Footcandle Lines of Horizontal Illumination

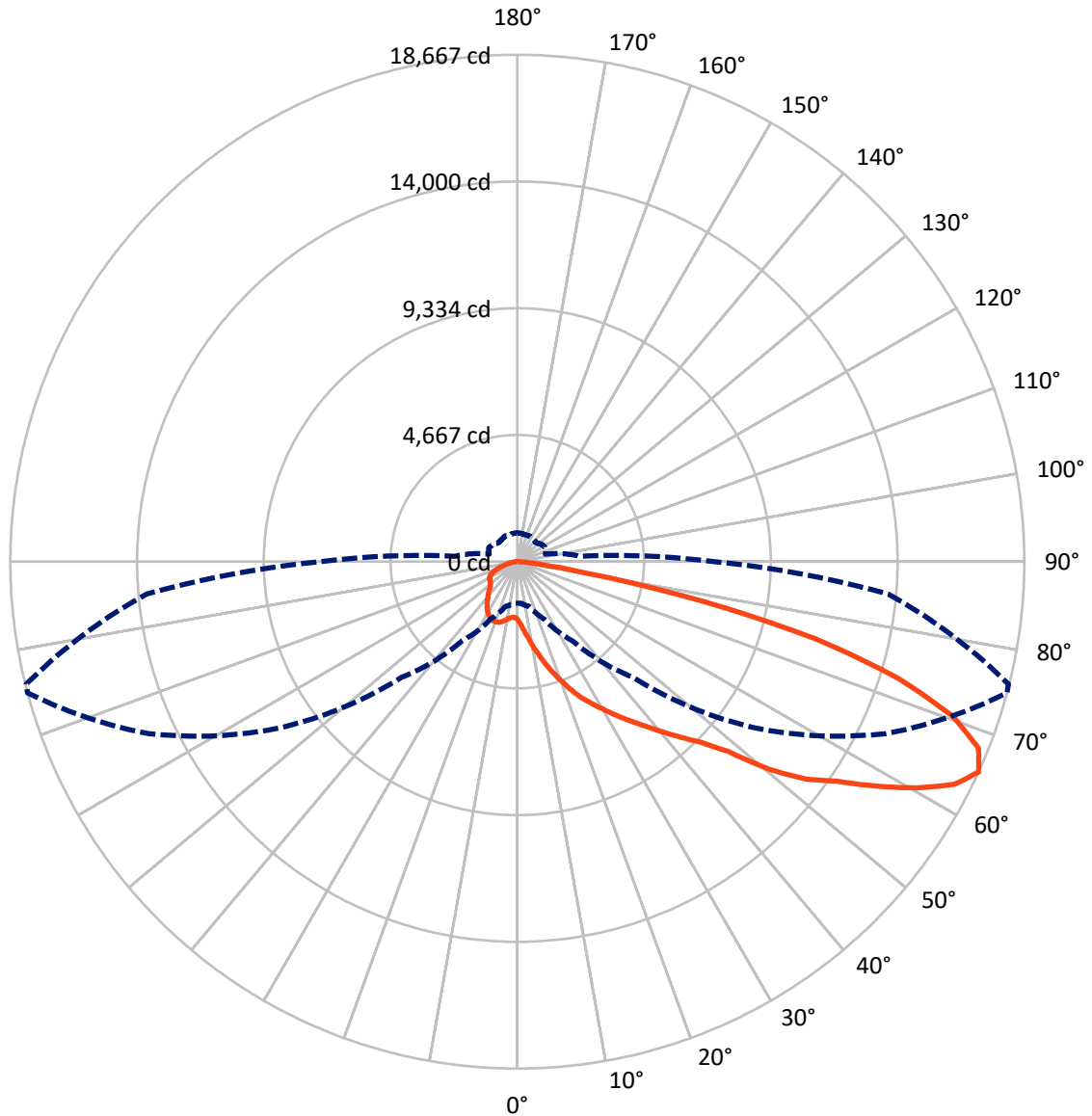
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.9 fc
 Type II - Short - N/A

REPORT NUMBER: P453342
CATALOG NUMBER: GALN-SA4B-760-U-T2R

Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

REPORT NUMBER: P453342

CATALOG NUMBER: GALN-SA4B-760-U-T2R

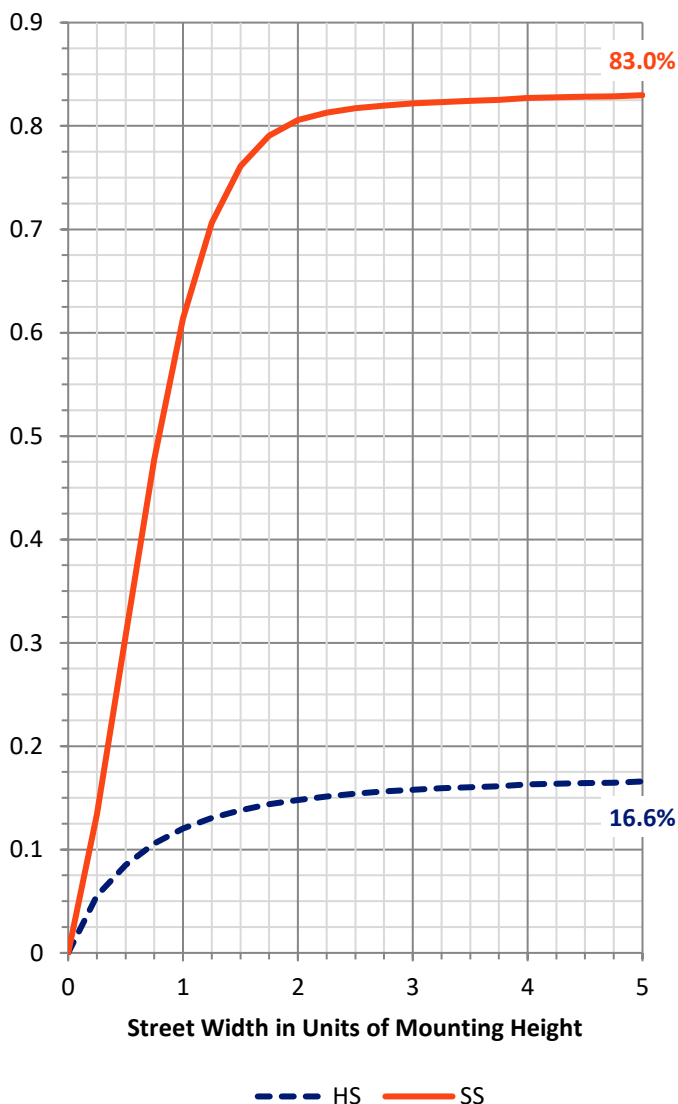
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3856.7	0.0	3856.7
	% Fixture	16.8	0.0	16.8
Street Side	Lumens	19084.3	0.0	19084.3
	% Fixture	83.2	0.0	83.2
Total	Lumens	22941.0	0.0	22941.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	259.0	1.1
10°-20°	1014.4	4.4
20°-30°	1959.4	8.5
30°-40°	3182.7	13.9
40°-50°	4378.0	19.1
50°-60°	5169.0	22.5
60°-70°	4528.9	19.7
70°-80°	2162.1	9.4
80°-90°	287.7	1.3
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°	22941.0	100.0
0°-180°	22941.0	100.0

Coefficient of Utilization



REPORT NUMBER: P453342

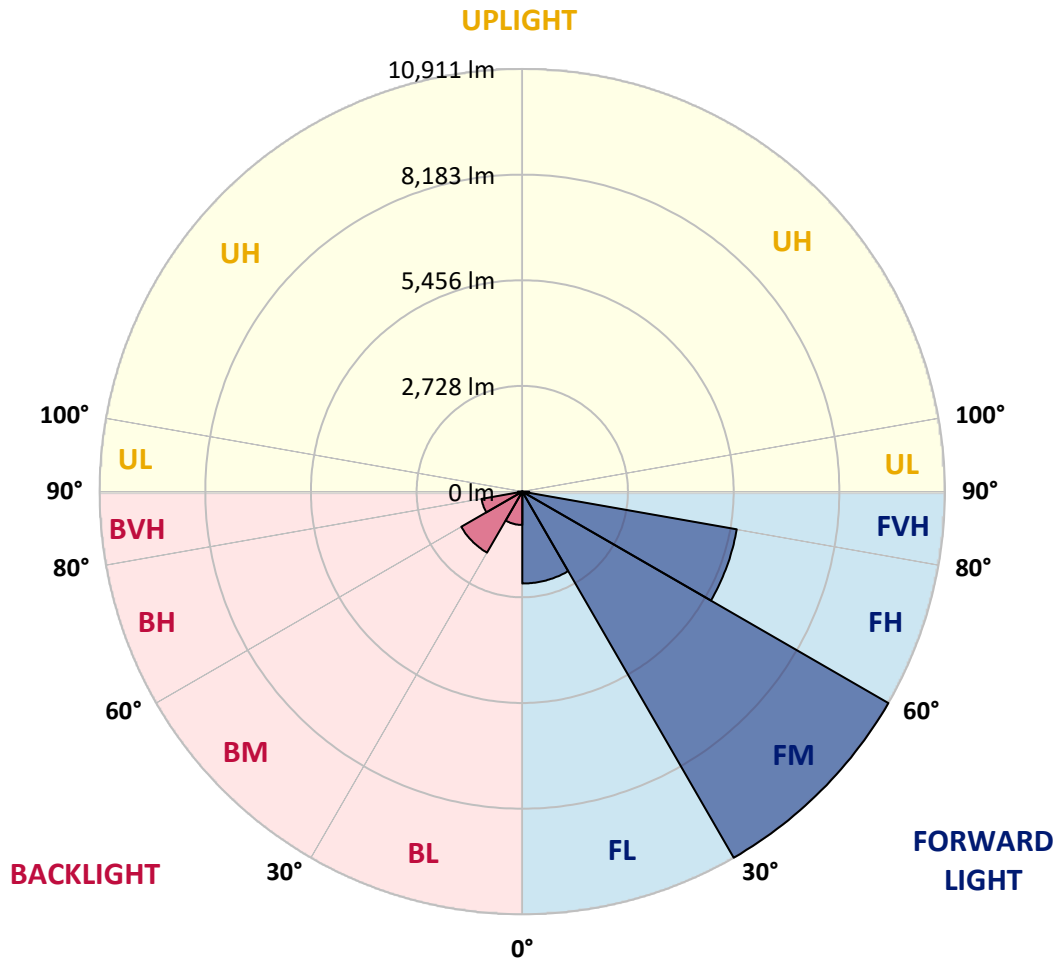
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2371.7	10.3			
FM	(30°-60°)	10911.2	47.6			
FH	(60°-80°)	5621.6	24.5			G3/7500
FVH	(80°-90°)	179.8	0.8			G2/225
BL	(0°-30°)	861.0	3.8	B2/1000		
BM	(30°-60°)	1818.4	7.9	B2/2500		
BH	(60°-80°)	1069.4	4.7	B3/2500		G3/2500
BVH	(80°-90°)	107.9	0.5			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Short





REPORT NUMBER: P453342

CATALOG NUMBER: GALN-SA4B-760-U-T2R

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2131.5	2131.5	2131.5	2131.5	2131.5	2131.5	2131.5	2131.5	2131.5	2131.5	2131.5
2.5°	2832.1	2813.4	2793.5	2738.7	2680.3	2614.3	2519.7	2428.9	2308.2	2304.5	2214.9
5°	3617.2	3604.8	3516.4	3465.4	3329.8	3149.4	2996.3	2758.6	2538.4	2512.3	2338.1
7.5°	4338.9	4290.4	4256.8	4164.7	4030.3	3798.9	3502.7	3181.7	2813.4	2778.6	2489.9
10°	4882.7	4877.7	4860.3	4780.7	4679.9	4449.7	4121.2	3660.8	3161.8	3093.4	2674.0
12.5°	5289.6	5293.3	5290.8	5289.6	5217.4	5022.0	4666.2	4180.9	3513.9	3465.4	2886.8
15°	5557.1	5594.4	5609.4	5671.6	5677.8	5547.1	5241.0	4683.6	3910.9	3838.7	3115.8
17.5°	5733.8	5752.5	5822.1	5927.9	6013.8	5990.1	5717.6	5149.0	4316.5	4195.8	3353.4
20°	5903.0	5935.4	5988.9	6133.2	6285.0	6354.7	6163.1	5625.5	4718.4	4641.3	3616.0
22.5°	6255.2	6301.2	6319.9	6393.3	6522.7	6645.9	6558.8	6082.2	5158.9	5054.4	3894.7
25°	6851.2	6899.7	6847.5	6830.0	6872.3	6933.3	6914.6	6512.7	5574.5	5425.2	4158.5
27.5°	7627.6	7633.9	7531.8	7434.8	7330.2	7299.1	7241.9	6894.7	5935.4	5810.9	4423.5
30°	8461.3	8431.5	8262.2	8086.8	7910.1	7735.9	7571.6	7263.1	6337.3	6194.2	4683.6
32.5°	9235.3	9219.1	9031.2	8758.7	8460.1	8295.8	7963.6	7635.1	6767.8	6629.7	4951.1
35°	9815.1	9838.8	9632.2	9334.8	9008.8	8863.2	8443.9	8025.8	7213.3	7062.7	5242.3
37.5°	10227.0	10214.6	10031.7	9774.1	9487.9	9361.0	9005.1	8452.6	7692.3	7548.0	5560.8
40°	10373.8	10366.4	10230.7	10042.9	9861.2	9816.4	9592.4	8913.0	8241.1	8071.9	5944.1
42.5°	10280.5	10296.7	10207.1	10156.1	10122.5	10154.8	10176.0	9516.5	8839.6	8684.1	6359.7
45°	9994.3	9985.6	9973.2	10056.5	10245.7	10458.5	10753.4	10086.4	9490.4	9365.9	6917.1
47.5°	9482.9	9545.1	9576.2	9806.4	10219.5	10723.5	11417.8	10850.4	10434.8	10326.6	7767.0
50°	8767.4	8817.2	9001.4	9410.7	10026.7	10823.0	12067.4	12099.7	12010.1	11807.3	8690.3
52.5°	7650.0	7727.2	8106.7	8857.0	9631.0	10782.0	12460.6	13171.1	13289.3	13137.5	9599.9
55°	6399.5	6507.8	6908.4	7892.7	9086.0	10558.0	12731.8	13792.0	14263.6	14123.0	10475.9
57.5°	5175.1	5289.6	5701.4	6654.6	8135.3	10062.8	12909.8	14483.8	15590.0	15407.1	11565.9
60°	3878.5	3998.0	4351.4	5333.1	6781.5	9094.7	12789.1	15083.6	16915.2	16836.8	12657.2
62.5°	2502.3	2634.2	2941.6	3754.1	5212.4	7772.0	12143.3	15414.6	18062.5	17967.9	13453.5
65°	1524.3	1539.2	1708.4	2330.6	3567.4	6017.5	10666.3	14975.3	18667.2	18638.6	13696.2
67.5°	985.5	1009.1	1086.3	1396.1	2139.0	4179.6	8528.5	13525.7	18313.8	18303.8	13194.7
70°	832.4	839.9	874.8	941.9	1243.1	2534.7	5988.9	11215.0	16971.2	16971.2	11989.0
72.5°	744.1	754.1	766.5	787.7	887.2	1435.9	3573.7	8730.1	14653.0	14750.1	10204.6
75°	675.7	673.2	680.6	684.4	756.5	938.2	1847.8	6456.7	11335.7	11141.6	7390.0
77.5°	578.6	582.3	578.6	594.8	668.2	714.2	938.2	4332.7	6869.9	6618.5	3709.3
80°	475.3	481.5	487.8	497.7	571.1	542.5	563.7	1974.7	2540.9	2487.4	1146.0
82.5°	357.1	365.8	375.8	399.4	449.2	358.4	355.9	843.6	917.1	839.9	421.8
85°	144.3	170.5	257.6	281.2	282.5	196.6	219.0	352.1	374.5	365.8	165.5
87.5°	33.6	39.8	83.4	125.7	115.7	73.4	80.9	114.5	130.7	120.7	56.0
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: P453342
 CATALOG NUMBER: GALN-SA4B-760-U-T2R

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2131.5	2131.5	2131.5	2131.5	2131.5	2131.5	2131.5	2131.5	2131.5	2131.5	2131.5
2.5°	2173.8	2130.3	2055.6	1998.4	1957.3	1921.2	1898.8	1885.1	1880.2	1878.9	1880.2
5°	2247.2	2170.1	2051.9	1977.2	1936.2	1912.5	1898.8	1897.6	1898.8	1900.1	1896.3
7.5°	2348.0	2237.3	2083.0	2013.3	1982.2	1964.8	1958.5	1956.1	1957.3	1956.1	1956.1
10°	2482.4	2330.6	2144.0	2071.8	2045.7	2025.7	2015.8	2009.6	2004.6	1999.6	1997.1
12.5°	2630.5	2433.9	2209.9	2140.2	2102.9	2071.8	2049.4	2033.2	2022.0	2010.8	2008.3
15°	2796.0	2543.4	2283.3	2186.3	2132.8	2086.7	2048.1	2022.0	2002.1	1985.9	1984.7
17.5°	2954.0	2646.7	2333.1	2207.4	2129.0	2064.3	2013.3	1977.2	1952.3	1931.2	1928.7
20°	3123.2	2745.0	2355.5	2193.7	2091.7	2013.3	1946.1	1902.6	1873.9	1850.3	1846.6
22.5°	3293.7	2828.3	2353.0	2150.2	2027.0	1934.9	1864.0	1817.9	1784.3	1760.7	1752.0
25°	3456.7	2895.5	2321.9	2080.5	1937.4	1841.6	1769.4	1727.1	1697.2	1668.6	1668.6
27.5°	3603.5	2935.3	2263.4	1995.9	1845.3	1744.5	1687.3	1648.7	1621.3	1602.7	1591.5
30°	3747.9	2954.0	2183.8	1888.9	1748.3	1662.4	1616.4	1594.0	1569.1	1547.9	1545.4
32.5°	3877.3	2950.3	2084.2	1784.3	1656.2	1595.2	1576.5	1559.1	1533.0	1503.1	1495.7
35°	4003.0	2925.4	1966.0	1669.9	1579.0	1555.4	1560.4	1535.5	1488.2	1450.9	1444.6
37.5°	4139.8	2880.6	1836.6	1576.5	1514.3	1536.7	1549.2	1494.4	1417.3	1358.8	1345.1
40°	4297.9	2829.6	1702.2	1483.2	1463.3	1519.3	1519.3	1418.5	1312.8	1276.7	1266.7
42.5°	4483.3	2787.3	1590.2	1404.8	1421.0	1477.0	1470.8	1317.7	1274.2	1255.5	1250.5
45°	4776.9	2772.3	1474.5	1336.4	1386.2	1427.2	1376.2	1282.9	1258.0	1243.1	1238.1
47.5°	5241.0	2789.8	1372.5	1285.4	1346.3	1377.5	1270.4	1259.2	1241.8	1220.7	1218.2
50°	5671.6	2773.6	1300.3	1256.8	1311.5	1317.7	1226.9	1230.6	1220.7	1197.0	1192.1
52.5°	6023.7	2722.6	1254.3	1241.8	1281.6	1213.2	1185.8	1199.5	1195.8	1165.9	1160.9
55°	6410.7	2691.4	1231.9	1241.8	1261.7	1122.4	1147.3	1167.2	1162.2	1141.0	1139.8
57.5°	6879.8	2697.7	1215.7	1245.6	1241.8	1076.3	1108.7	1132.3	1131.1	1124.9	1124.9
60°	7360.1	2700.2	1190.8	1244.3	1218.2	1040.2	1068.9	1102.5	1105.0	1108.7	1108.7
62.5°	7519.4	2591.9	1142.3	1221.9	1165.9	1005.4	1031.5	1077.6	1075.1	1085.0	1086.3
65°	7222.0	2292.0	1070.1	1170.9	1098.7	980.5	1002.9	1045.2	1031.5	1057.7	1062.6
67.5°	6573.7	1896.3	958.1	1078.8	1024.1	954.4	984.3	1000.4	975.5	1026.6	1027.8
70°	5681.5	1480.7	816.3	948.2	939.5	927.0	969.3	944.4	909.6	971.8	959.4
72.5°	4750.8	1131.1	652.0	775.2	826.2	886.0	943.2	872.3	823.7	842.4	820.0
75°	3568.7	836.2	523.9	607.2	688.1	827.5	919.5	785.2	710.5	693.1	688.1
77.5°	1819.2	546.3	392.0	454.2	516.4	747.8	887.2	683.1	588.6	561.2	548.7
80°	649.5	339.7	276.2	313.6	348.4	643.3	775.2	564.9	456.7	451.7	456.7
82.5°	301.1	219.0	185.4	205.3	206.6	429.3	591.0	421.8	347.2	527.6	445.5
85°	129.4	109.5	104.5	102.0	94.6	191.6	332.2	226.5	353.4	158.0	145.6
87.5°	38.6	43.6	38.6	28.6	21.2	21.2	33.6	12.4	8.7	6.2	6.2
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)