

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: P651799

Luminaire Tested: **GALN-SA3A-840-U-T2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P651799
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-14)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA3A-840-U-T2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9630.3 lumens
Efficiency: N/A
Efficacy: 103.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

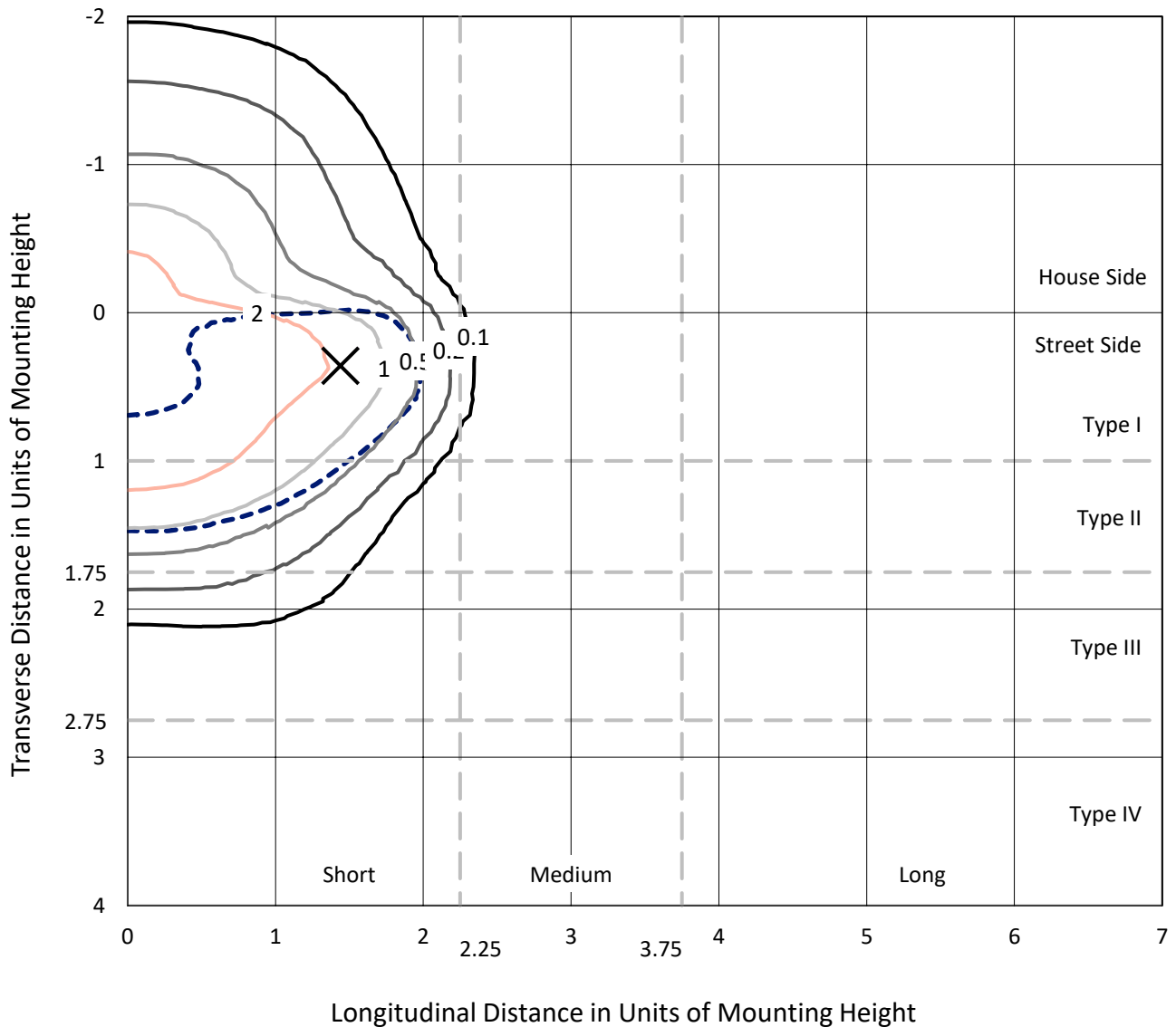
Input Watts (W): 93
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P651799
 CATALOG NUMBER: GALN-SA3A-840-U-T2-GRSWH

Iso-Footcandle Lines of Horizontal Illumination

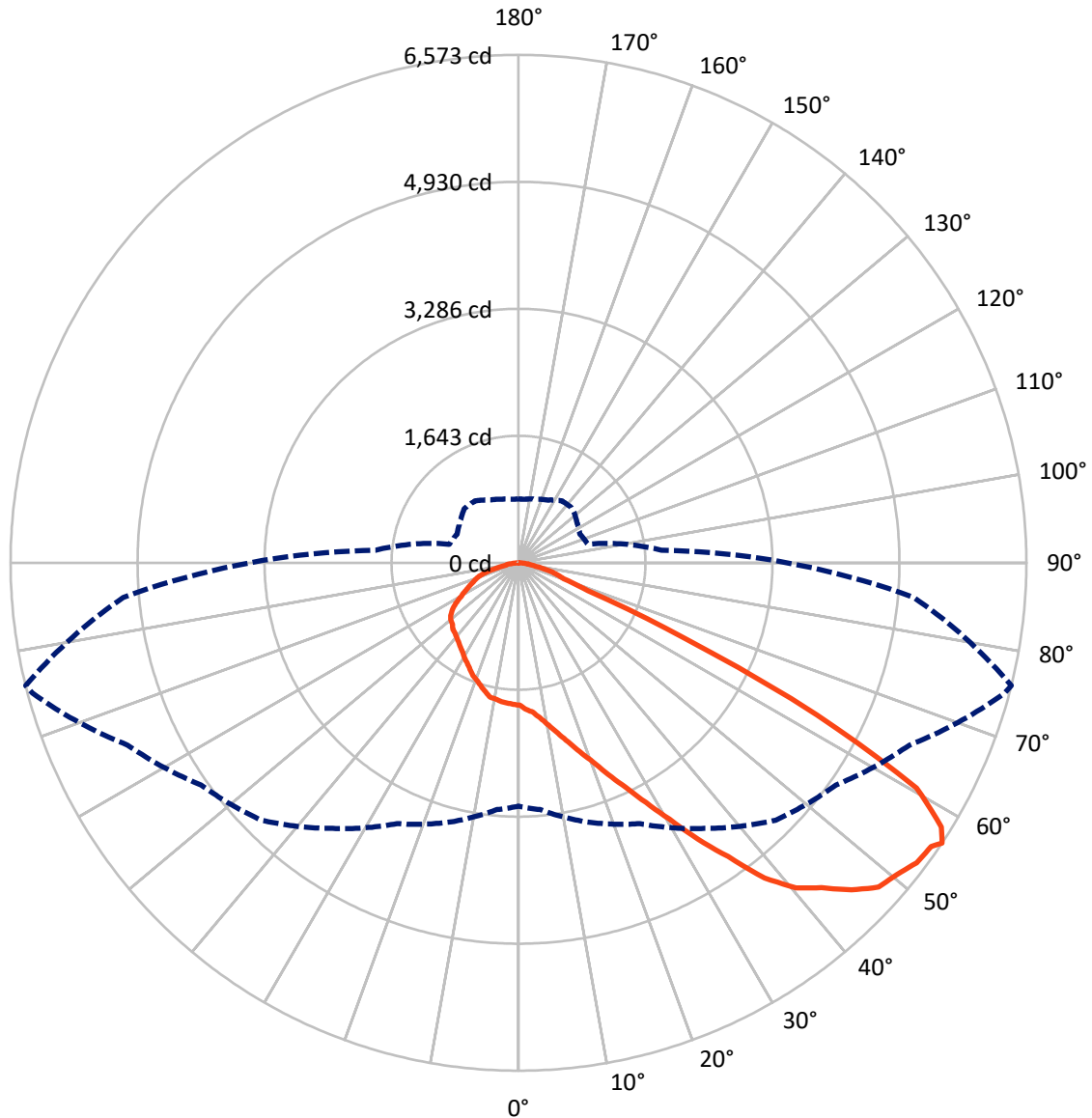
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.1 fc
 Type II - Short - N/A

REPORT NUMBER: P651799
CATALOG NUMBER: GALN-SA3A-840-U-T2-GRSWH

Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

REPORT NUMBER: P651799
 CATALOG NUMBER: GALN-SA3A-840-U-T2-GRSWH

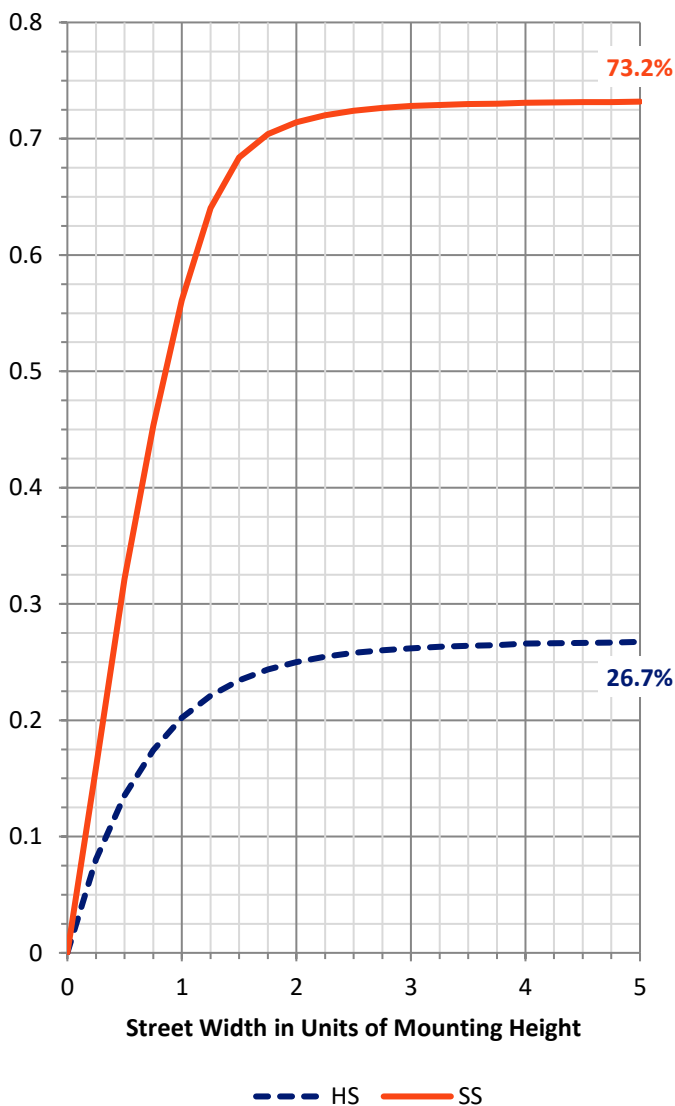
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2589.3	0.0	2589.3
	% Fixture	26.9	0.0	26.9
Street Side	Lumens	7041.0	0.0	7041.0
	% Fixture	73.1	0.0	73.1
Total	Lumens	9630.3	0.0	9630.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	182.7	1.9
10°-20°	574.0	6.0
20°-30°	1003.9	10.4
30°-40°	1571.8	16.3
40°-50°	2286.5	23.7
50°-60°	2513.0	26.1
60°-70°	1121.7	11.6
70°-80°	324.0	3.4
80°-90°	52.6	0.5
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°	9630.3	100.0
0°-180°	9630.3	100.0

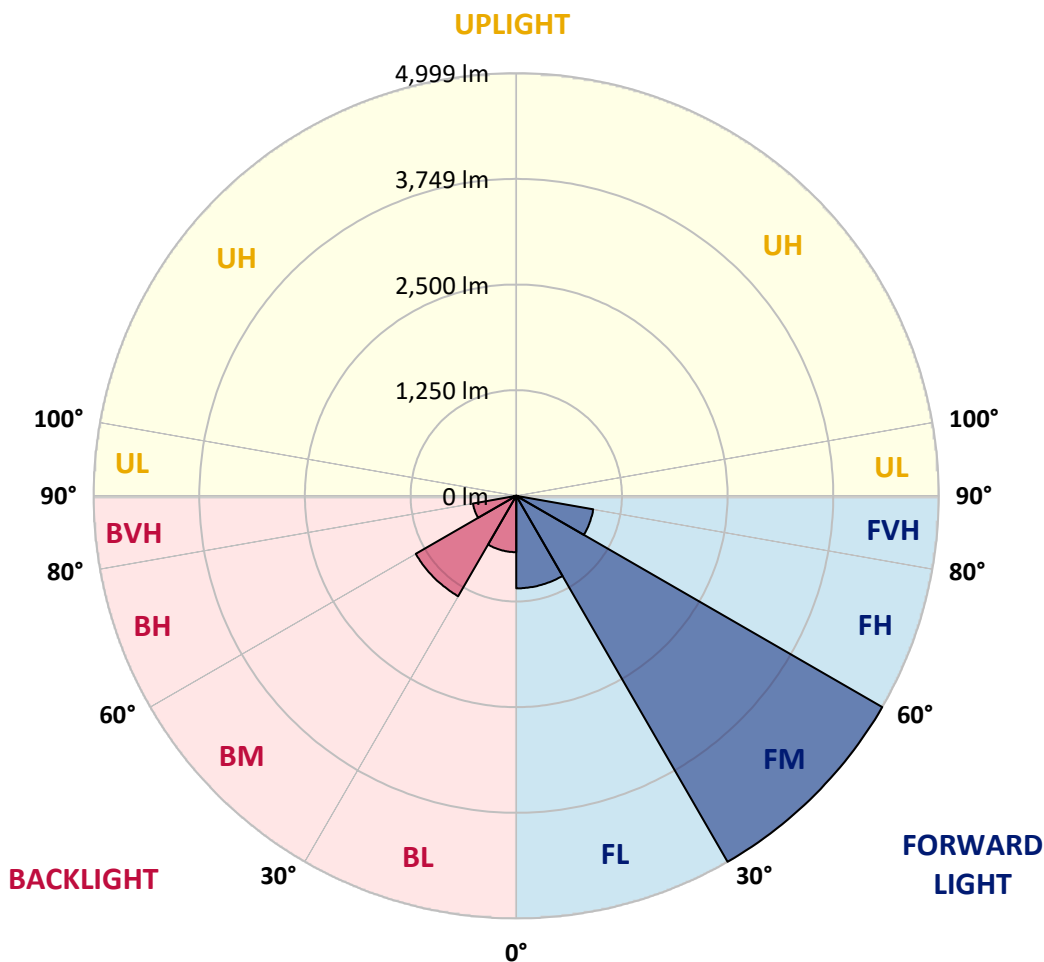


REPORT NUMBER: P651799
 CATALOG NUMBER: GALN-SA3A-840-U-T2-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1094.4	11.4			
FM (30°-60°)	4999.3	51.9			
FH (60°-80°)	924.7	9.6			G1/1800
FVH (80°-90°)	22.6	0.2			G1/100
BL (0°-30°)	666.3	6.9	B2/1000		
BM (30°-60°)	1372.1	14.2	B2/2500		
BH (60°-80°)	521.0	5.4	B2/1000		G2/1000
BVH (80°-90°)	29.9	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2
 Type II Short





REPORT NUMBER: P651799

CATALOG NUMBER: GALN-SA3A-840-U-T2-GRSWH

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1842.6	1842.6	1842.6	1842.6	1842.6	1842.6	1842.6	1842.6	1842.6	1842.6	1842.6
2.5°	2029.9	1997.5	1994.9	1986.2	1991.2	1968.7	1945.0	1913.8	1881.3	1901.3	1853.9
5°	2172.2	2128.5	2146.0	2116.0	2119.7	2089.8	2041.1	2004.9	1965.0	1941.3	1907.6
7.5°	2222.2	2225.9	2238.4	2233.4	2208.4	2208.4	2175.9	2112.3	2042.4	2028.7	1972.5
10°	2289.5	2290.8	2277.1	2280.8	2315.8	2299.5	2270.9	2243.4	2153.5	2137.2	2037.4
12.5°	2313.3	2290.8	2313.3	2333.3	2374.5	2396.9	2390.7	2370.7	2274.6	2263.4	2117.3
15°	2317.0	2303.3	2322.0	2367.0	2403.2	2498.0	2545.5	2531.7	2404.4	2405.7	2207.2
17.5°	2299.5	2318.3	2325.8	2364.5	2448.1	2536.7	2674.0	2692.8	2587.9	2571.7	2320.7
20°	2323.3	2309.6	2319.5	2354.5	2465.6	2604.2	2784.0	2907.5	2760.2	2749.0	2438.1
22.5°	2414.4	2395.7	2393.1	2415.6	2495.6	2639.1	2900.0	3122.2	2969.9	2976.2	2584.1
25°	2485.6	2495.6	2486.8	2485.6	2535.5	2691.5	3053.6	3378.1	3254.6	3218.3	2756.5
27.5°	2607.9	2631.7	2614.2	2637.9	2626.6	2770.2	3163.4	3661.5	3561.6	3513.0	2912.5
30°	2777.7	2790.2	2774.0	2774.0	2740.2	2880.1	3263.3	3957.4	3916.2	3850.0	3096.1
32.5°	3001.1	3019.9	2987.4	2968.6	2963.7	3043.6	3443.1	4249.6	4319.5	4263.3	3339.4
35°	3297.0	3285.8	3247.1	3229.6	3162.2	3294.5	3710.2	4585.4	4768.9	4669.0	3634.0
37.5°	3557.9	3540.4	3537.9	3440.6	3456.8	3565.4	3937.5	4840.0	5204.5	5175.9	3945.0
40°	3801.4	3817.6	3843.8	3788.9	3763.9	3883.7	4202.1	5034.8	5542.9	5531.7	4184.6
42.5°	4062.3	4047.3	4093.5	4047.3	4009.9	4179.6	4489.3	5169.6	5840.0	5747.6	4435.5
45°	4440.6	4393.1	4409.4	4413.1	4385.6	4448.0	4607.8	5267.0	6048.5	6038.5	4619.0
47.5°	4756.4	4757.6	4730.2	4708.9	4625.3	4687.7	4740.1	5328.2	6288.2	6271.9	4690.3
50°	4873.8	4857.5	4937.4	4983.6	4988.6	4861.2	4843.7	5361.9	6414.2	6343.1	4761.4
52.5°	4451.7	4466.7	4592.9	4867.5	5026.1	5039.8	4964.8	5431.8	6465.4	6450.5	4818.8
55°	3582.9	3655.3	3862.5	4179.6	4555.4	4968.6	5096.0	5504.2	6492.9	6480.4	5073.5
56°	3149.7	3205.9	3475.5	3723.9	4195.8	4710.2	5013.5	5581.5	6514.1	6572.8	5133.4
57.5°	2535.5	2600.4	2793.9	3076.0	3632.9	4218.4	4786.4	5486.7	6431.7	6454.2	5177.1
60°	1585.5	1591.7	1823.9	2009.9	2401.9	2973.7	3652.8	4773.9	5952.3	5919.9	4650.3
62.5°	1039.9	1041.2	1252.2	1404.5	1582.9	1714.0	2149.8	3165.9	4391.9	4334.4	3310.8
65°	730.3	746.6	910.0	1113.6	1186.0	1117.4	1103.6	1669.1	2453.1	2370.7	1779.0
67.5°	534.3	535.5	680.4	898.9	1003.7	850.2	690.4	815.2	971.3	968.7	823.9
70°	353.3	368.3	479.4	671.6	791.5	682.9	564.3	583.0	618.0	618.0	612.9
72.5°	206.0	219.8	293.3	425.7	444.5	427.0	446.9	499.4	521.8	520.6	514.4
75°	117.3	123.6	139.9	177.3	220.9	260.9	328.3	378.3	400.7	414.4	398.2
77.5°	68.6	72.4	82.4	101.1	114.9	141.0	178.5	213.4	243.5	239.7	242.2
80°	36.2	36.2	46.2	60.0	79.9	99.9	118.6	138.6	154.8	158.5	162.3
82.5°	21.2	22.5	29.9	43.7	57.4	71.1	91.2	104.9	119.8	121.1	123.6
85°	11.3	12.4	18.8	28.7	38.7	43.7	44.9	42.5	46.2	43.7	50.0
87.5°	3.8	3.8	6.2	5.0	5.0	6.2	7.5	7.5	10.0	10.0	10.0
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: P651799

CATALOG NUMBER: GALN-SA3A-840-U-T2-GRSWH

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1842.6	1842.6	1842.6	1842.6	1842.6	1842.6	1842.6	1842.6	1842.6	1842.6	1842.6
2.5°	1852.6	1852.6	1831.4	1791.4	1785.2	1769.0	1754.0	1752.7	1741.5	1731.5	1726.6
5°	1887.5	1848.9	1817.7	1781.5	1739.0	1719.0	1696.5	1671.6	1661.6	1671.6	1670.4
7.5°	1927.5	1895.0	1801.4	1734.1	1685.4	1665.3	1640.4	1614.2	1616.7	1616.7	1599.2
10°	1966.3	1922.5	1772.7	1686.5	1615.4	1600.4	1586.7	1596.7	1609.2	1611.7	1600.4
12.5°	2031.1	1932.5	1759.0	1639.1	1594.2	1561.7	1570.5	1598.0	1624.1	1616.7	1625.4
15°	2079.8	1941.3	1696.5	1590.4	1534.3	1549.3	1580.5	1599.2	1642.9	1637.9	1646.6
17.5°	2127.2	1946.2	1635.4	1525.6	1501.9	1543.0	1566.7	1620.4	1634.1	1664.1	1675.4
20°	2224.6	1956.3	1573.0	1485.6	1478.1	1525.6	1566.7	1591.7	1621.7	1647.9	1647.9
22.5°	2274.6	1951.2	1531.8	1433.1	1456.9	1486.8	1524.3	1566.7	1566.7	1591.7	1592.9
25°	2337.0	1931.3	1466.9	1408.2	1425.7	1454.3	1496.8	1481.8	1498.1	1498.1	1518.1
27.5°	2408.1	1888.8	1410.7	1363.3	1398.2	1429.4	1435.7	1425.7	1406.9	1404.5	1397.0
30°	2465.6	1836.4	1369.5	1348.3	1377.0	1394.5	1374.4	1353.3	1320.8	1318.3	1300.9
32.5°	2544.2	1771.5	1318.3	1310.8	1343.2	1344.5	1338.3	1305.8	1258.4	1238.4	1218.4
35°	2676.6	1734.1	1279.6	1290.9	1300.9	1297.1	1285.9	1250.9	1203.5	1194.7	1187.2
37.5°	2774.0	1706.6	1239.6	1253.4	1262.1	1267.1	1233.4	1194.7	1196.0	1178.5	1173.5
40°	2883.8	1689.1	1207.2	1213.5	1214.7	1230.9	1189.8	1171.0	1179.8	1168.5	1176.0
42.5°	3024.8	1694.1	1173.5	1168.5	1192.2	1186.0	1166.0	1141.1	1146.0	1112.3	1117.4
45°	3099.8	1727.8	1153.5	1131.1	1157.3	1156.0	1129.8	1106.1	1076.1	1011.2	1013.7
47.5°	3149.7	1736.5	1106.1	1091.1	1118.5	1134.8	1104.8	1049.9	1007.4	961.3	950.0
50°	3200.8	1752.7	1083.6	1052.4	1063.6	1102.3	1064.9	1012.5	971.3	930.1	936.3
52.5°	3245.8	1783.9	1039.9	993.7	1013.7	1056.1	1036.2	972.5	927.5	893.8	883.9
55°	3445.6	1853.9	966.2	906.3	953.8	1007.4	996.2	918.8	870.1	852.7	850.2
56°	3476.8	1856.3	927.5	876.4	920.1	991.2	977.5	895.1	851.4	823.9	825.2
57.5°	3481.7	1826.4	872.6	848.9	886.3	967.5	950.0	876.4	816.4	791.5	784.0
60°	3063.6	1425.7	804.0	789.0	832.7	895.1	888.9	825.2	757.7	729.1	742.8
62.5°	2088.5	1044.9	750.3	747.8	770.3	831.4	815.2	757.7	701.6	682.9	674.1
65°	1215.9	792.7	697.9	687.9	706.6	739.1	750.3	690.4	631.7	619.2	615.4
67.5°	717.8	655.4	630.4	614.2	608.0	628.0	636.7	601.7	543.0	525.5	540.6
70°	600.5	583.0	584.2	556.8	541.8	528.1	520.6	489.4	440.7	418.2	412.0
72.5°	518.1	510.6	505.6	480.6	466.9	435.7	403.3	372.1	335.8	317.1	318.3
75°	395.8	393.3	395.8	383.2	359.5	334.5	304.6	264.7	237.2	213.4	218.5
77.5°	236.0	243.5	247.2	242.2	232.2	209.7	191.0	164.8	138.6	119.8	117.3
80°	162.3	168.5	174.8	168.5	158.5	142.3	122.4	102.3	83.7	73.7	71.1
82.5°	123.6	129.9	133.6	127.3	114.9	97.4	83.7	69.9	54.9	44.9	42.5
85°	44.9	51.2	50.0	60.0	64.9	62.4	53.7	41.2	31.2	22.5	21.2
87.5°	12.4	11.3	12.4	12.4	12.4	11.3	10.0	10.0	10.0	6.2	5.0
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)