

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: P451751

Luminaire Tested: **GALN-SA2C-827-U-T3R**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P451751
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-8)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA2C-827-U-T3R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10636 lumens
Efficiency: N/A
Efficacy: 98.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B2 - U0 - G2

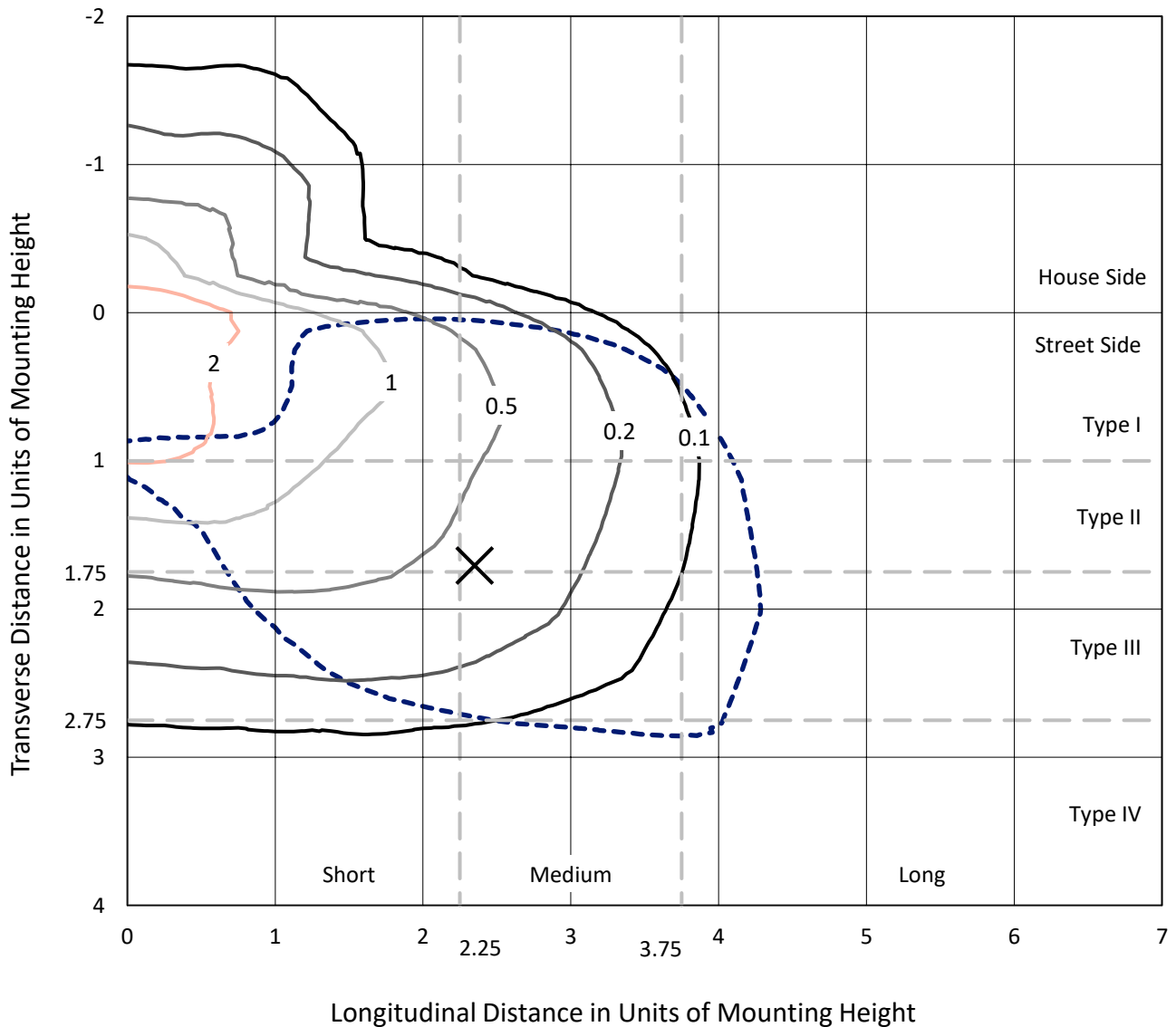
Input Watts (W): 108
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

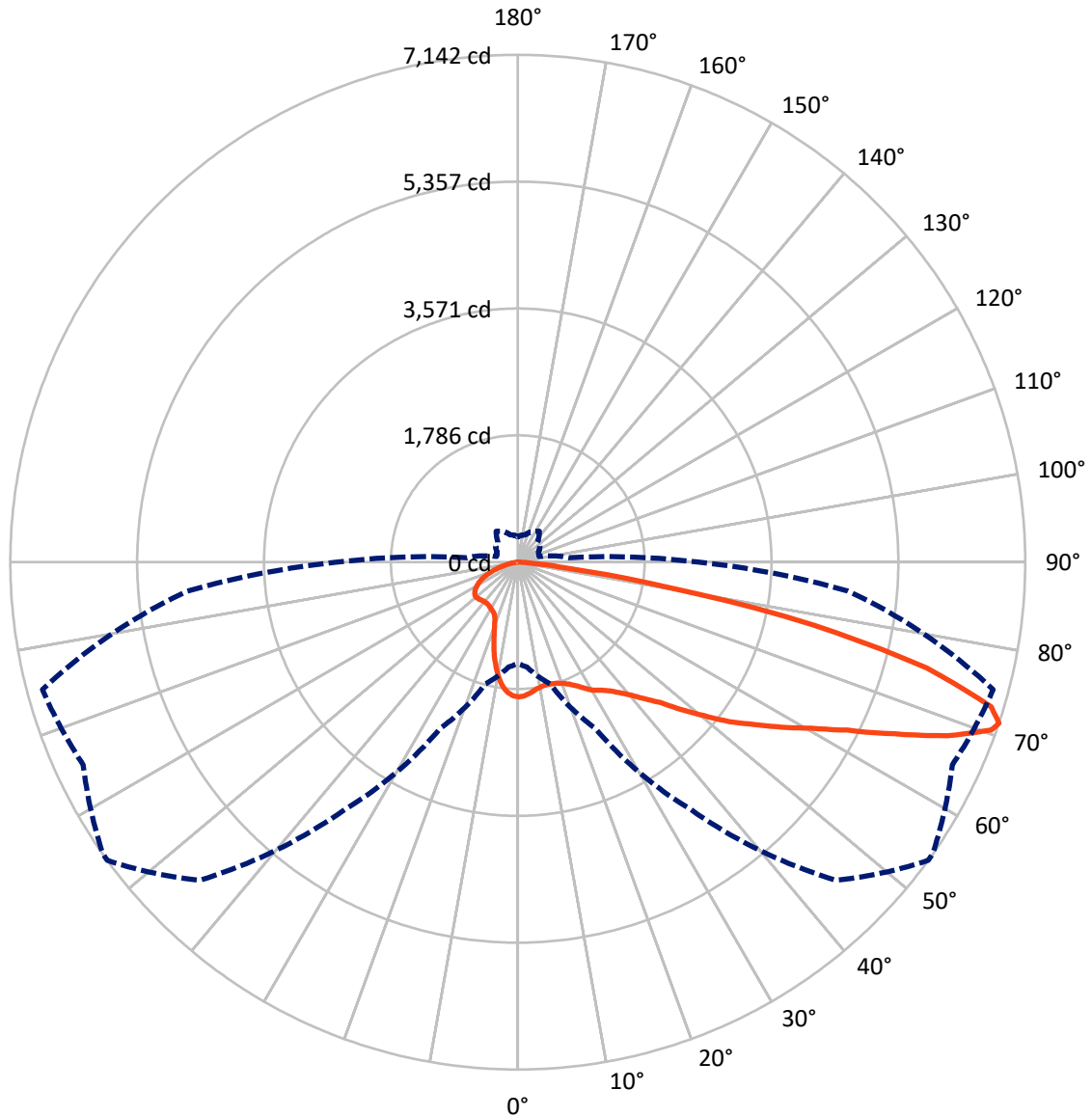
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.1 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical



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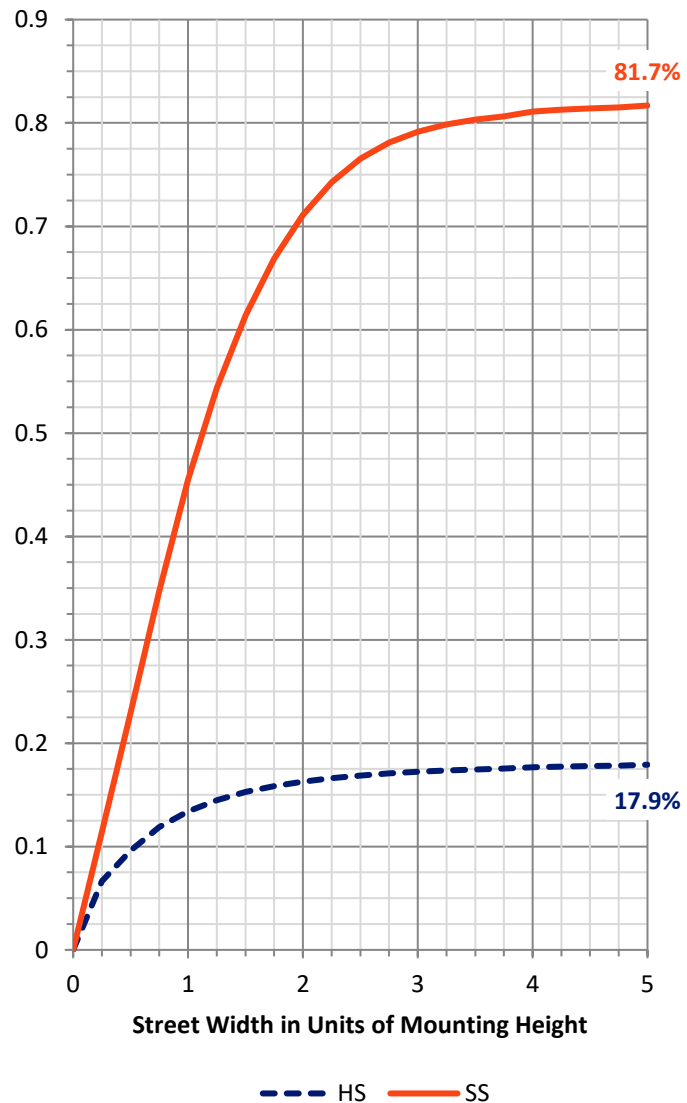
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1920.3	0.0	1920.3
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	8715.7	0.0	8715.7
	% Fixture	81.9	0.0	81.9
Total	Lumens	10636.0	0.0	10636.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	169.1	1.6
10°-20°	446.5	4.2
20°-30°	743.5	7.0
30°-40°	1099.4	10.3
40°-50°	1548.5	14.6
50°-60°	2073.5	19.5
60°-70°	2613.5	24.6
70°-80°	1785.0	16.8
80°-90°	157.0	1.5
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°	10636.0	100.0
0°-180°	10636.0	100.0



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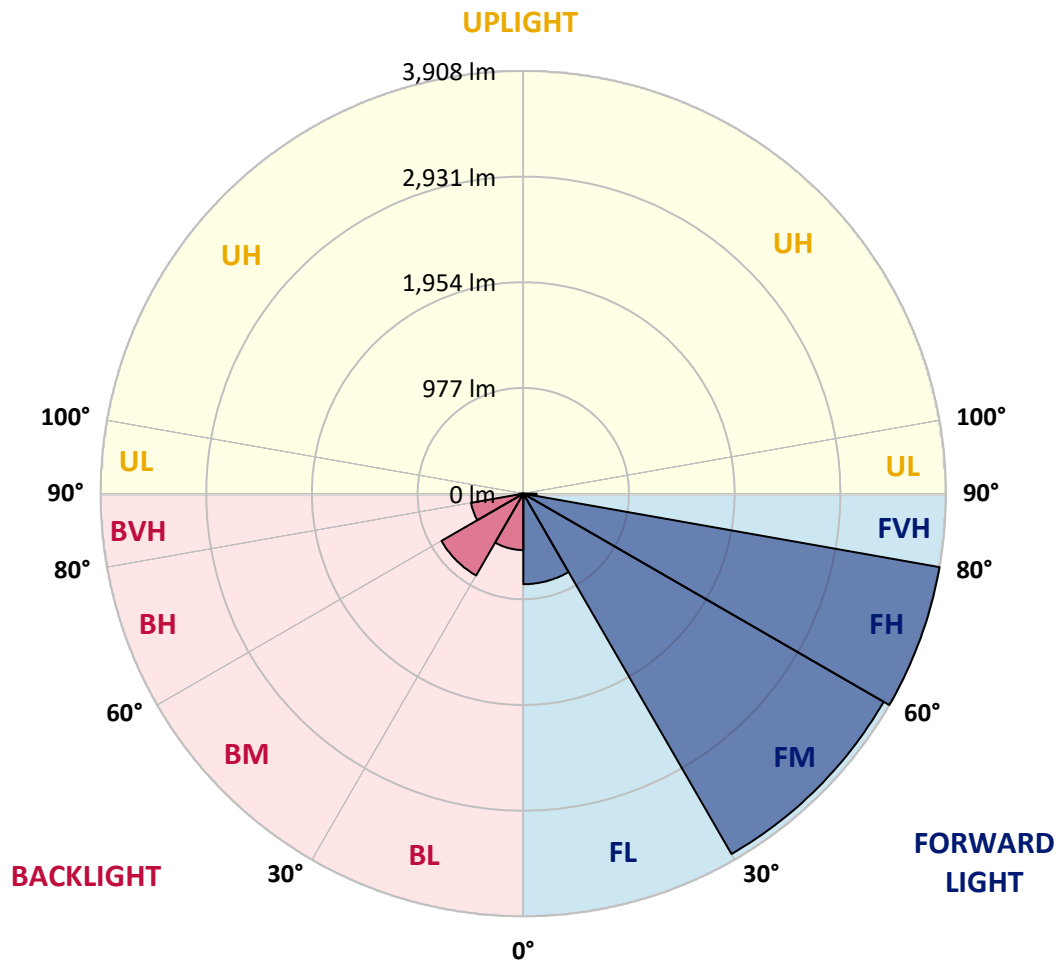
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	837.2	7.9			
FM (30°-60°)	3847.7	36.2			
FH (60°-80°)	3908.1	36.7			G2/5000
FVH (80°-90°)	122.7	1.2			G2/225
BL (0°-30°)	521.9	4.9	B2/1000		
BM (30°-60°)	873.7	8.2	B1/1000		
BH (60°-80°)	490.4	4.6	B1/500		G1/500
BVH (80°-90°)	34.3	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 IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	1897.6	1897.6	1897.6	1897.6	1897.6	1897.6	1897.6	1897.6	1897.6	1897.6	1897.6
2.5°	1833.3	1841.9	1844.2	1849.9	1862.0	1871.8	1881.5	1880.4	1894.2	1899.9	1905.1
5°	1751.7	1754.0	1762.6	1774.1	1795.4	1822.4	1848.8	1849.4	1883.3	1910.3	1923.5
7.5°	1691.9	1699.4	1705.2	1717.2	1739.6	1768.9	1810.9	1814.3	1874.6	1928.1	1956.2
10°	1652.9	1661.5	1667.8	1682.8	1705.2	1737.9	1783.3	1789.6	1868.3	1956.2	2005.6
12.5°	1617.3	1625.9	1631.6	1651.2	1680.5	1720.7	1771.8	1779.3	1870.6	1989.0	2059.6
15°	1639.1	1646.0	1643.7	1649.4	1669.0	1714.9	1776.4	1783.9	1879.2	2020.6	2113.1
17.5°	1736.2	1741.9	1723.0	1701.1	1691.9	1725.8	1790.8	1798.8	1896.5	2053.3	2167.6
20°	1879.2	1894.7	1853.4	1804.5	1760.3	1764.9	1820.6	1829.3	1920.6	2086.1	2223.4
22.5°	2065.4	2076.9	2026.3	1945.9	1864.3	1822.4	1865.4	1870.6	1956.8	2128.6	2284.3
25°	2284.3	2291.2	2221.1	2117.7	1999.9	1920.6	1926.9	1936.1	2016.5	2176.8	2338.3
27.5°	2496.8	2518.7	2437.7	2311.3	2156.2	2024.0	2011.4	2017.1	2081.5	2203.8	2375.6
30°	2749.0	2747.3	2661.7	2515.2	2316.4	2136.6	2091.2	2090.1	2116.5	2217.0	2402.6
32.5°	2950.1	2973.7	2889.8	2730.1	2499.7	2253.2	2146.4	2144.1	2143.5	2240.0	2442.8
35°	3178.8	3182.2	3105.2	2944.4	2697.9	2399.7	2223.4	2211.9	2198.7	2289.4	2497.4
37.5°	3383.3	3399.4	3328.7	3148.3	2892.7	2552.0	2329.1	2321.6	2281.4	2375.0	2584.7
40°	3543.0	3555.1	3512.6	3340.8	3084.6	2716.3	2463.5	2449.7	2400.9	2515.2	2701.4
42.5°	3595.3	3620.0	3636.7	3552.2	3305.2	2911.1	2629.0	2611.7	2574.4	2727.8	2835.8
45°	3599.3	3638.4	3726.3	3730.3	3526.9	3144.3	2822.0	2809.9	2807.1	3000.1	3024.8
47.5°	3568.9	3608.5	3756.2	3836.0	3724.6	3379.9	3100.7	3081.7	3083.4	3336.8	3236.8
50°	3495.3	3542.5	3721.7	3903.8	3879.1	3624.6	3394.8	3388.5	3424.1	3721.1	3456.9
52.5°	3356.9	3413.8	3686.1	3946.3	3994.0	3835.5	3729.2	3711.4	3801.6	4138.2	3697.6
55°	2973.7	3059.3	3555.7	3969.9	4103.2	4037.1	4030.2	4062.4	4181.9	4593.2	3962.4
57.5°	2773.8	2838.1	3272.4	3973.9	4241.1	4271.5	4381.8	4389.9	4599.0	5076.4	4261.7
60°	2664.6	2721.5	3117.3	3947.5	4433.5	4561.6	4741.5	4770.2	5006.3	5599.8	4572.0
62.5°	2569.2	2618.1	3024.2	3856.1	4650.7	4992.0	5207.4	5221.2	5468.8	6177.7	4878.2
65°	2344.6	2400.3	2837.0	3764.8	4838.0	5529.7	5825.6	5809.5	5961.2	6676.4	5070.1
67.5°	2041.8	2112.5	2487.1	3449.4	4930.5	6117.4	6521.9	6501.8	6447.2	7003.3	5125.2
70°	1655.2	1693.1	2039.5	2904.2	4561.1	6425.9	7071.7	7050.4	6748.2	7046.4	4864.4
71°	1424.2	1483.4	1775.8	2579.6	4253.7	6331.7	7142.4	7136.6	6748.8	6927.5	4667.9
72.5°	1111.7	1147.9	1406.4	1998.7	3615.4	5796.3	6967.7	6989.5	6602.3	6597.1	4262.9
75°	703.2	719.3	882.5	1176.6	1983.8	4104.9	5947.9	6007.1	5862.3	5399.9	3170.2
77.5°	408.5	429.2	528.6	693.4	857.2	2228.0	4256.0	4320.3	4073.3	2973.1	1297.8
80°	237.8	260.8	348.2	402.7	393.5	826.7	2167.1	2276.8	1763.8	750.9	364.2
82.5°	132.1	147.7	244.7	245.3	209.7	270.0	681.9	713.5	503.3	302.8	148.8
85°	95.9	108.6	158.0	143.1	100.5	116.1	237.3	248.8	203.4	127.5	48.3
87.5°	33.9	48.3	86.8	68.9	27.6	24.1	68.4	55.7	51.7	35.6	10.9
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°	1897.6	1897.6	1897.6	1897.6	1897.6	1897.6	1897.6	1897.6	1897.6	1897.6	1897.6
2.5°	1908.0	1909.1	1903.4	1893.0	1882.7	1869.5	1854.5	1843.0	1837.9	1837.3	1836.7
5°	1928.6	1931.5	1909.7	1877.5	1841.9	1798.2	1760.9	1718.4	1707.5	1690.2	1695.4
7.5°	1962.0	1960.2	1917.2	1848.8	1765.5	1673.0	1594.9	1549.5	1502.4	1489.1	1489.7
10°	2009.7	1998.7	1917.2	1790.2	1651.2	1513.8	1404.7	1335.7	1298.4	1267.4	1255.9
12.5°	2060.2	2032.6	1898.8	1708.0	1504.1	1335.7	1218.5	1125.5	1101.3	1076.1	1076.6
15°	2108.5	2062.5	1862.6	1592.6	1345.5	1145.6	1031.8	976.1	968.6	971.5	970.9
17.5°	2152.1	2083.8	1807.4	1463.9	1160.5	982.4	922.1	926.1	946.2	960.6	962.3
20°	2196.4	2096.4	1725.3	1291.5	985.9	883.6	885.9	917.5	947.9	967.5	970.4
22.5°	2238.3	2102.1	1628.7	1124.9	859.5	841.7	875.6	909.5	939.3	958.3	961.2
25°	2265.9	2088.9	1492.0	950.8	797.4	826.7	862.3	891.1	916.3	935.9	940.5
27.5°	2273.4	2046.4	1322.5	810.1	768.7	812.4	845.1	866.4	885.9	904.3	907.7
30°	2269.3	1983.8	1136.4	727.3	752.0	795.7	821.0	836.5	860.0	874.4	877.3
32.5°	2263.0	1910.8	942.2	683.1	738.3	780.2	795.1	808.9	808.3	802.6	806.6
35°	2265.3	1823.5	784.8	656.7	726.2	768.7	781.3	764.1	714.7	712.4	710.1
37.5°	2277.4	1737.3	670.5	638.3	719.9	767.0	773.9	694.6	650.9	630.8	625.6
40°	2308.4	1636.8	595.2	624.5	719.3	780.2	740.0	659.5	575.7	536.6	533.7
42.5°	2349.8	1538.0	549.2	615.9	726.2	800.3	726.2	610.1	518.8	495.8	492.4
45°	2411.2	1424.8	524.0	611.9	736.5	807.8	721.6	573.9	495.8	477.4	477.4
47.5°	2480.8	1316.8	510.2	609.0	749.7	802.6	680.8	562.4	484.9	487.2	498.1
50°	2549.7	1223.1	499.8	602.7	761.2	799.7	664.1	561.9	487.8	517.1	536.6
52.5°	2629.6	1157.1	487.2	592.3	761.2	781.3	659.0	573.4	495.8	504.4	513.0
55°	2726.1	1136.4	471.1	569.9	747.4	735.4	656.1	590.0	501.6	481.4	484.9
57.5°	2853.6	1169.7	455.6	541.8	715.8	687.7	654.9	594.6	488.3	471.7	468.2
60°	3001.8	1235.8	451.0	513.0	672.8	646.9	648.1	581.4	470.0	452.7	455.6
62.5°	3105.8	1275.4	448.1	491.2	625.6	602.1	631.4	565.3	461.9	447.0	449.8
65°	3105.8	1227.2	421.7	457.9	564.7	548.1	611.3	545.2	451.6	434.3	431.5
67.5°	2988.0	1086.4	381.5	407.9	497.5	486.6	583.1	521.1	436.1	422.8	415.9
70°	2681.3	823.9	330.9	349.3	412.5	422.3	546.9	488.3	410.2	394.1	383.8
71°	2546.2	717.6	309.7	319.4	379.8	394.1	529.7	474.5	398.7	375.7	357.3
72.5°	2286.0	604.4	277.5	281.5	324.6	350.5	493.5	448.1	376.9	344.1	323.5
75°	1736.8	441.2	223.5	221.2	240.1	278.1	417.7	399.3	330.3	286.1	274.0
77.5°	750.3	240.1	167.2	168.9	163.2	210.8	328.6	343.0	283.2	232.7	221.8
80°	227.5	138.5	114.3	116.6	109.2	141.3	231.5	268.9	227.5	181.0	166.0
82.5°	116.6	82.7	78.1	77.0	69.5	79.9	140.2	183.8	162.6	113.2	100.0
85°	50.6	44.2	38.5	37.3	32.7	28.7	50.0	91.9	86.2	63.2	60.3
87.5°	12.6	11.5	7.5	6.9	4.0	0.6	0.0	0.0	0.0	0.0	0.0
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)