

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: P646783

Luminaire Tested: **GALN-SA2C-835-U-SL4**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P646783
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-18)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA2C-835-U-SL4
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10835.9 lumens
Efficiency: N/A
Efficacy: 100.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G3

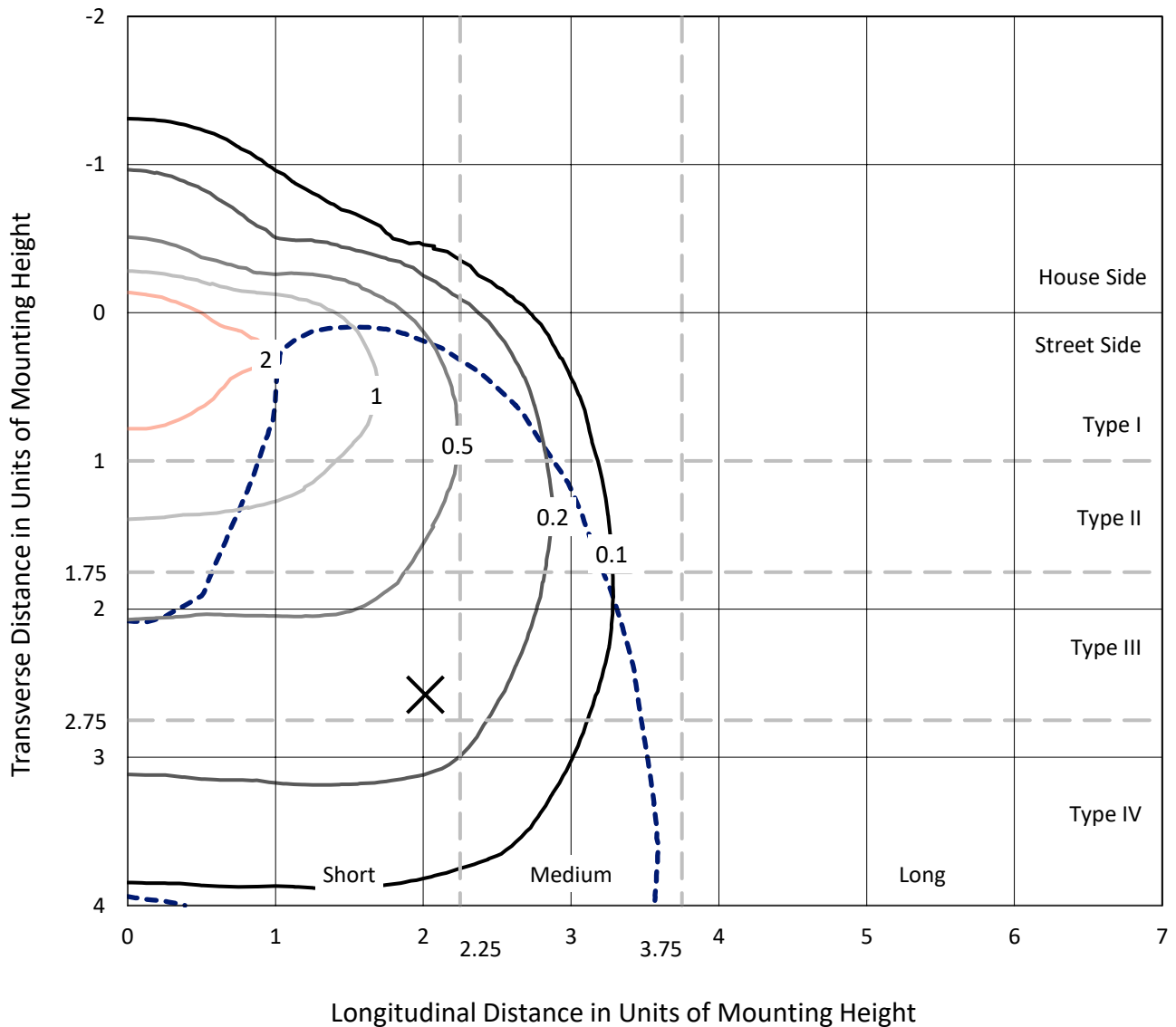
Input Watts (W): 108
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

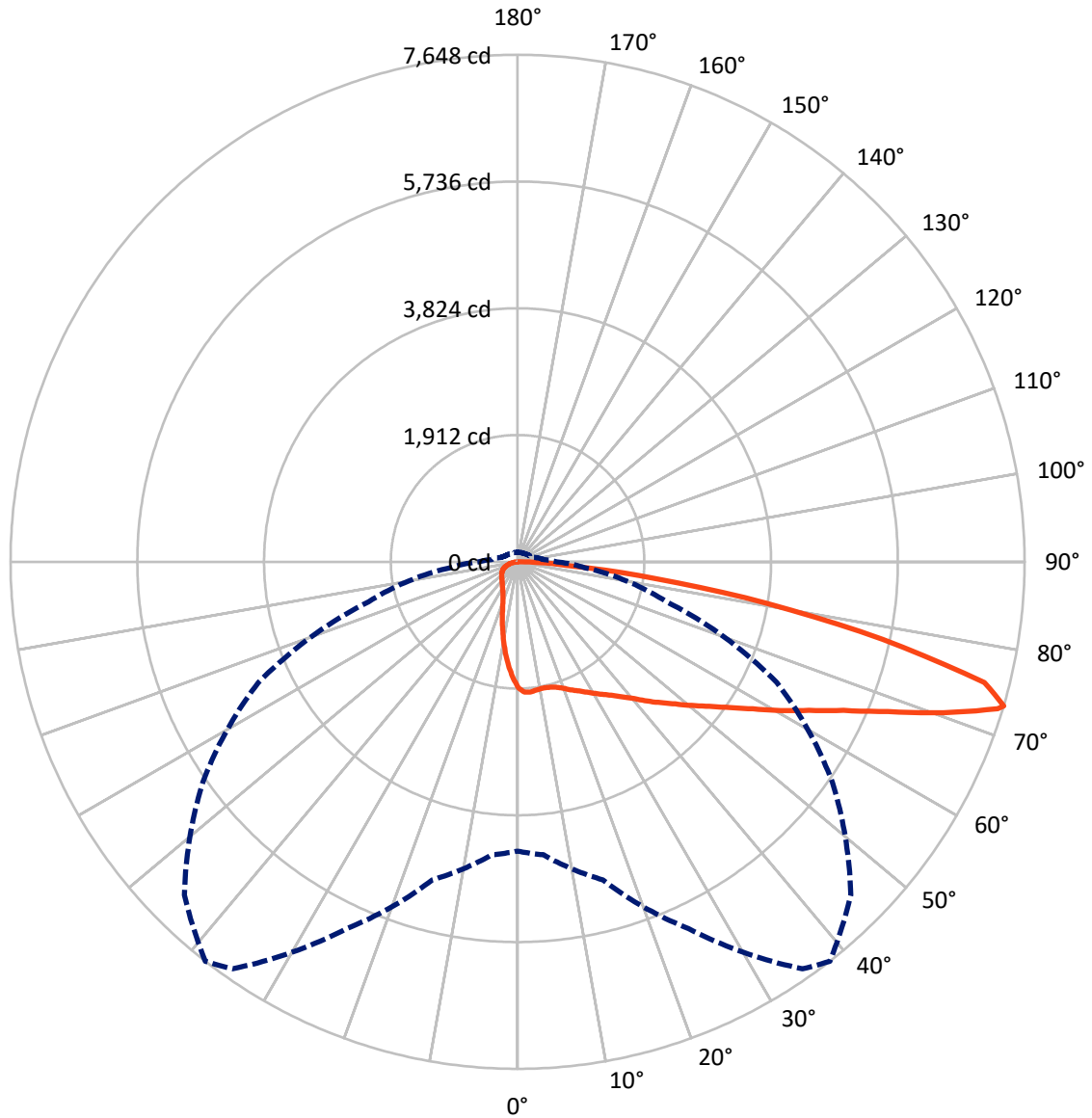
× Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 38-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical

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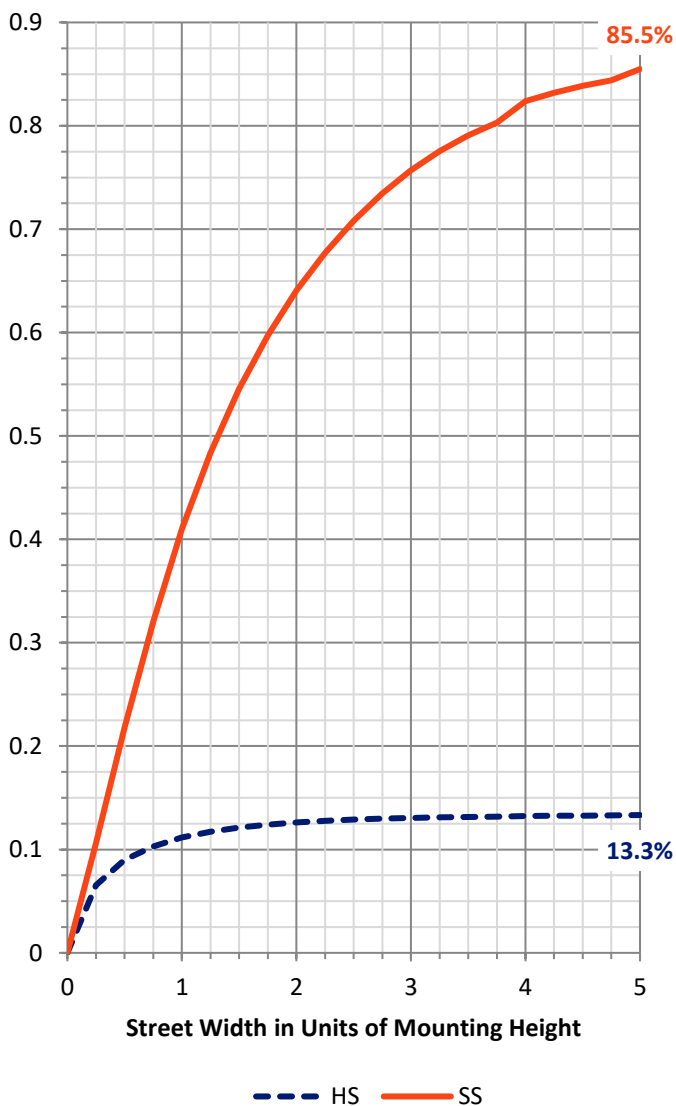
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1456.7	0.0	1456.7
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	9379.3	0.0	9379.3
	% Fixture	86.6	0.0	86.6
Total	Lumens	10835.9	0.0	10835.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	166.2	1.5
10°-20°	426.1	3.9
20°-30°	663.5	6.1
30°-40°	973.3	9.0
40°-50°	1443.7	13.3
50°-60°	2045.5	18.9
60°-70°	2594.8	23.9
70°-80°	2159.9	19.9
80°-90°	362.9	3.3
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°	10835.9	100.0
0°-180°	10835.9	100.0

Coefficient of Utilization

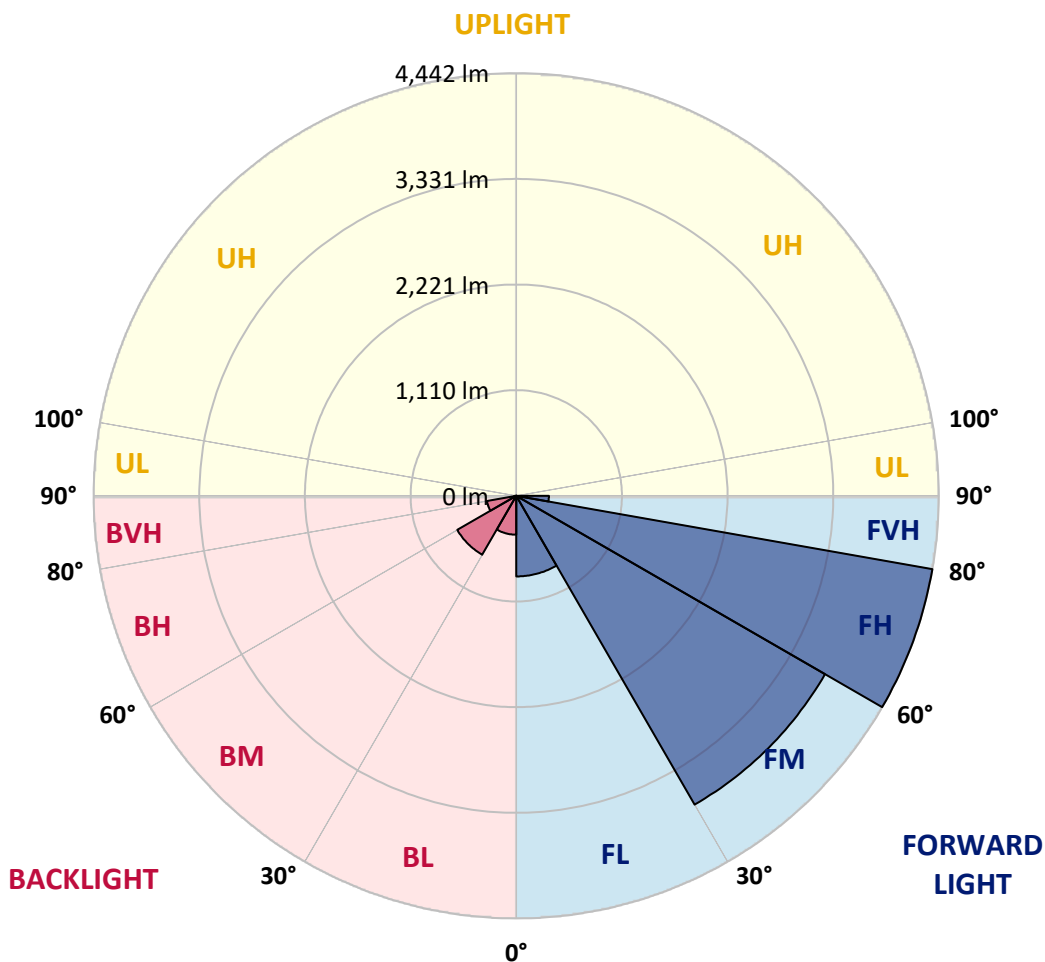


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	847.1	7.8			
FM (30°-60°)	3747.4	34.6			
FH (60°-80°)	4441.6	41.0			G2/5000
FVH (80°-90°)	343.2	3.2			G3/500
BL (0°-30°)	408.8	3.8	B1/500		
BM (30°-60°)	715.1	6.6	B1/1000		
BH (60°-80°)	313.1	2.9	B1/500		G1/500
BVH (80°-90°)	19.7	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G3
 Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	1903.7	1903.7	1903.7	1903.7	1903.7	1903.7	1903.7	1903.7	1903.7	1903.7	1903.7
2.5°	1980.2	1990.0	1985.1	1978.3	1974.1	1969.8	1963.7	1945.9	1931.8	1916.5	1892.7
5°	1994.8	2001.0	1996.7	1988.1	1978.3	1974.1	1962.4	1939.2	1916.5	1890.9	1855.3
7.5°	1986.3	1988.7	1983.9	1973.5	1964.9	1957.0	1943.5	1917.8	1890.2	1859.0	1812.5
10°	1955.7	1964.9	1964.9	1956.3	1947.7	1943.5	1930.0	1905.5	1880.5	1845.0	1789.9
12.5°	1930.6	1940.4	1948.3	1945.9	1945.3	1945.3	1934.9	1916.5	1887.2	1853.5	1788.1
15°	1913.5	1925.1	1942.2	1952.0	1958.1	1960.0	1955.7	1939.8	1909.8	1870.7	1795.4
17.5°	1909.8	1923.9	1955.1	1976.5	1992.4	1991.8	1990.6	1968.5	1935.5	1895.1	1804.6
20°	1926.3	1944.7	1988.1	2021.8	2045.0	2040.7	2034.0	2005.3	1966.7	1921.4	1813.1
22.5°	1975.9	1994.8	2042.6	2079.3	2102.0	2102.0	2081.8	2043.8	2002.8	1952.0	1824.8
25°	2046.9	2067.7	2118.5	2155.8	2166.2	2158.3	2138.1	2092.2	2045.0	1996.1	1849.2
27.5°	2133.8	2158.9	2205.9	2237.2	2234.1	2228.0	2207.2	2148.5	2101.3	2056.7	1890.9
30°	2242.1	2260.4	2309.4	2316.7	2305.7	2304.5	2275.2	2216.4	2172.4	2138.1	1950.2
32.5°	2344.3	2360.8	2400.0	2403.0	2383.5	2385.9	2358.3	2304.5	2279.4	2267.2	2050.0
35°	2452.6	2461.1	2494.8	2491.1	2478.3	2476.5	2465.4	2414.1	2422.0	2444.1	2191.3
37.5°	2543.2	2560.3	2579.3	2582.3	2581.7	2587.8	2595.2	2570.7	2616.6	2685.7	2376.7
40°	2626.3	2641.1	2669.2	2679.0	2702.8	2715.1	2740.2	2740.8	2846.7	2960.4	2605.0
42.5°	2682.6	2707.8	2760.4	2778.2	2836.3	2873.0	2910.3	2950.1	3103.7	3249.9	2874.2
45°	2731.7	2764.7	2852.2	2907.3	2986.2	3030.8	3109.8	3193.0	3413.9	3605.5	3147.7
47.5°	2805.6	2835.0	2935.4	3032.7	3152.0	3203.4	3321.5	3445.7	3734.6	3944.4	3409.7
50°	2908.5	2926.2	3028.4	3186.9	3339.3	3405.3	3561.4	3740.7	4077.2	4279.2	3639.7
52.5°	3040.0	3047.4	3128.8	3339.9	3540.6	3622.5	3829.4	4038.7	4377.0	4569.8	3822.1
55°	3195.4	3183.2	3246.9	3502.0	3770.7	3877.7	4099.9	4340.4	4714.3	4804.8	3954.9
57.5°	3349.0	3330.1	3380.8	3699.0	4054.6	4183.7	4442.6	4651.3	5015.3	5024.5	4047.9
60°	3511.8	3497.7	3558.3	3930.3	4402.8	4555.7	4795.0	4973.7	5306.6	5177.5	4062.5
62.5°	3678.8	3656.2	3742.5	4190.5	4795.0	4933.9	5165.8	5316.4	5592.3	5234.4	3921.2
65°	3841.0	3830.7	3964.0	4499.4	5241.7	5399.6	5624.8	5727.0	5821.2	5148.7	3570.6
67.5°	4013.6	4034.4	4247.4	4911.9	5824.3	6022.5	6265.5	6169.4	5886.7	4743.0	3007.0
70°	4276.7	4290.2	4619.4	5452.3	6575.1	6814.4	6931.8	6326.6	5571.0	3972.6	2260.4
72.5°	4390.0	4449.3	4951.7	6019.5	7428.2	7574.4	7155.8	5976.0	4640.8	2698.6	1187.7
73°	4364.8	4435.9	4967.0	6105.8	7494.8	7648.4	7108.1	5795.5	4314.0	2324.1	1018.2
75°	4052.2	4139.6	4768.1	6033.6	7365.1	7273.3	6340.7	4939.4	2915.2	1056.8	463.8
77.5°	3197.3	3222.4	3778.0	4872.1	5799.8	5629.7	4745.4	3087.1	1190.8	392.8	263.1
80°	1603.8	1696.2	2129.5	2791.0	3878.4	3822.7	2995.4	1460.1	496.3	230.7	174.4
82.5°	771.6	837.1	1037.2	1360.9	2142.9	2092.2	1483.3	798.0	315.2	134.6	102.8
85°	496.9	545.8	660.2	649.3	881.2	841.4	666.4	604.0	186.7	70.4	71.6
87.5°	328.0	359.2	430.8	344.5	320.6	290.0	294.3	340.2	36.7	26.9	9.8
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°	1903.7	1903.7	1903.7	1903.7	1903.7	1903.7	1903.7	1903.7	1903.7	1903.7	1903.7
2.5°	1882.9	1874.9	1848.6	1822.9	1798.5	1775.2	1759.9	1739.7	1726.2	1729.9	1735.4
5°	1835.7	1818.0	1771.5	1726.2	1683.4	1632.6	1591.6	1558.6	1533.5	1524.3	1522.5
7.5°	1786.2	1756.2	1689.5	1611.8	1539.0	1476.0	1403.1	1367.0	1324.8	1310.1	1305.3
10°	1756.2	1715.9	1622.2	1513.9	1404.4	1299.7	1220.8	1156.6	1098.4	1087.4	1081.9
12.5°	1747.7	1694.4	1568.3	1428.8	1283.2	1154.7	1037.8	953.4	897.1	884.2	865.3
15°	1742.7	1676.6	1518.2	1343.2	1158.4	1001.7	878.7	780.2	728.8	694.5	695.1
17.5°	1738.5	1656.4	1461.9	1249.5	1050.7	870.1	734.3	645.6	598.4	580.1	578.2
20°	1732.4	1632.6	1397.0	1151.0	927.7	750.2	627.2	561.1	529.3	514.0	513.4
22.5°	1729.9	1609.4	1333.4	1050.7	818.8	657.8	556.2	509.7	489.5	479.1	479.1
25°	1736.0	1592.9	1266.7	955.2	722.1	578.9	507.3	475.4	463.8	458.4	456.5
27.5°	1755.0	1585.5	1200.6	859.7	633.4	525.0	474.3	452.2	443.6	439.3	440.0
30°	1791.1	1584.9	1135.7	765.5	567.3	484.1	448.0	432.6	425.9	423.4	422.8
32.5°	1849.2	1598.3	1072.1	687.8	511.5	449.8	423.4	412.4	409.4	407.6	406.9
35°	1947.7	1636.3	1009.1	616.8	468.7	419.1	400.2	394.7	390.4	392.2	392.8
37.5°	2080.5	1701.8	949.1	561.1	436.3	396.5	380.6	375.7	373.3	375.1	376.9
40°	2258.6	1796.0	898.9	516.5	413.0	377.6	363.5	359.2	356.7	359.8	360.4
42.5°	2455.0	1904.9	857.3	481.5	394.1	361.7	348.2	343.3	341.5	343.3	343.9
45°	2657.0	2031.6	835.9	456.5	378.2	350.0	335.9	330.4	326.1	324.9	326.7
47.5°	2855.8	2141.7	835.3	441.2	365.3	339.6	324.3	318.2	312.7	309.6	309.1
50°	3018.0	2229.2	849.9	434.5	354.3	328.0	312.7	306.5	299.3	293.1	294.3
52.5°	3140.4	2286.1	856.7	431.4	348.2	315.8	300.4	295.0	286.3	278.4	278.4
55°	3219.3	2299.6	840.2	428.4	343.3	302.9	286.3	281.5	273.0	265.0	265.0
57.5°	3246.2	2258.0	780.8	421.0	338.4	291.9	272.3	268.0	261.3	253.3	252.1
60°	3183.8	2117.2	676.8	398.9	328.6	280.2	257.0	255.2	252.8	246.0	245.4
62.5°	2943.4	1818.6	563.6	370.2	312.1	268.0	243.0	246.0	247.8	244.1	243.5
65°	2543.2	1476.6	481.5	330.4	290.0	250.9	227.6	235.6	240.5	240.5	239.3
67.5°	2062.8	1133.9	405.7	296.2	262.5	227.6	210.5	216.7	220.3	219.1	222.1
70°	1466.2	768.0	330.4	257.0	227.6	201.3	188.5	188.5	186.0	184.8	184.8
72.5°	711.0	438.7	268.0	214.8	193.9	171.9	161.5	157.2	152.4	151.7	148.7
73°	594.1	393.5	255.8	206.9	186.0	167.6	156.1	149.3	146.3	143.8	143.2
75°	361.7	298.6	213.5	174.4	158.5	144.4	134.0	127.9	124.8	123.0	122.4
77.5°	238.0	222.8	165.8	133.4	121.1	112.6	108.3	102.2	100.4	97.9	97.9
80°	177.4	170.1	118.7	94.3	86.9	79.6	78.3	77.1	72.2	69.1	67.9
82.5°	114.4	121.1	80.8	63.0	55.0	48.9	49.6	51.4	46.5	42.2	41.0
85°	81.4	87.5	48.9	28.7	23.3	20.2	22.6	20.2	20.8	16.5	13.5
87.5°	13.5	23.3	8.5	3.7	1.8	1.3	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)