

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: P382861

Luminaire Tested: **GLEON-SA2B-735-U-SL4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P382861
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-24)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA2B-735-U-SL4
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3500K, 800mA 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: 10350.4 lumens
Efficiency: N/A
Efficacy: 121.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G3

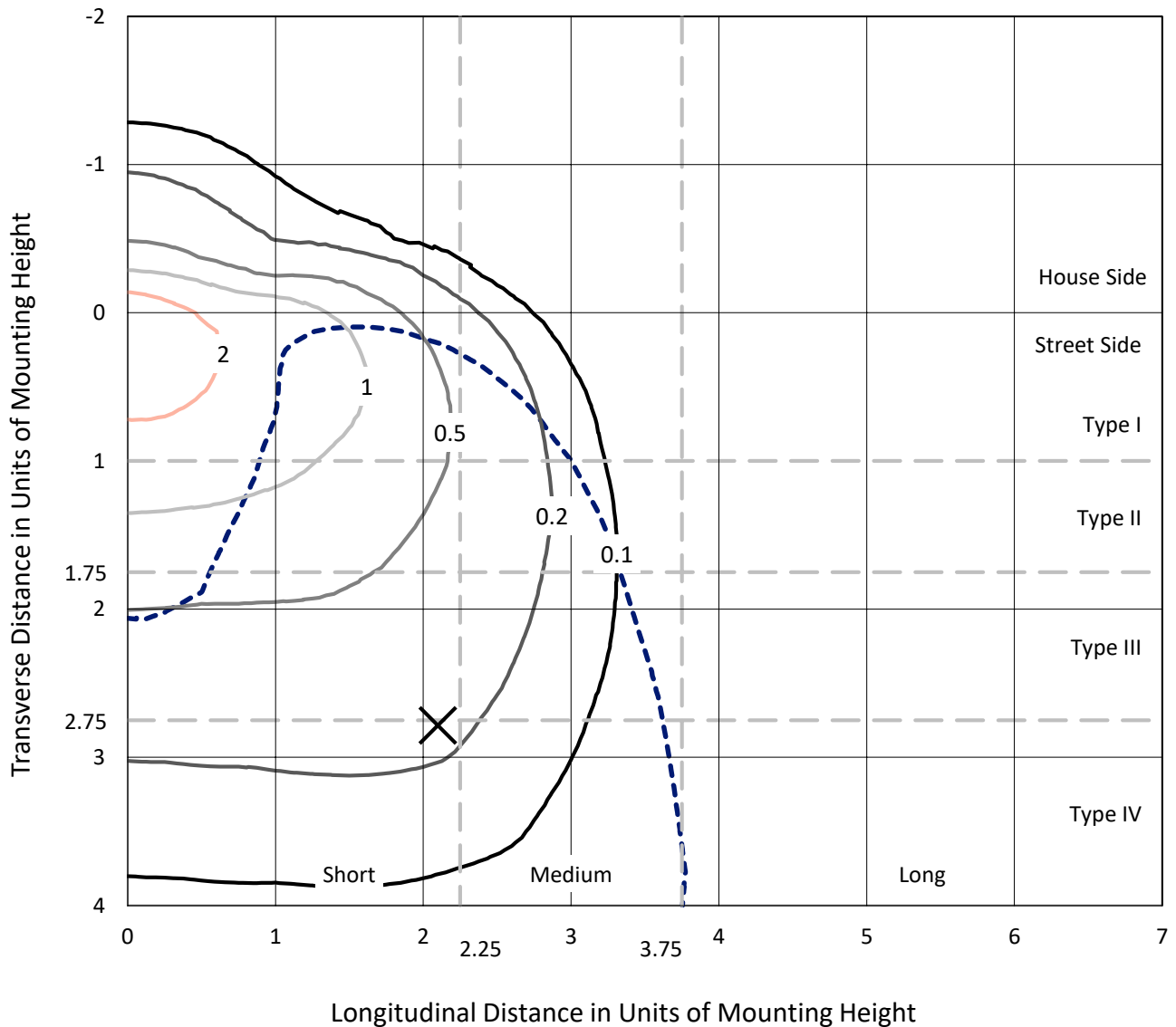
Input Watts (W): 85
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

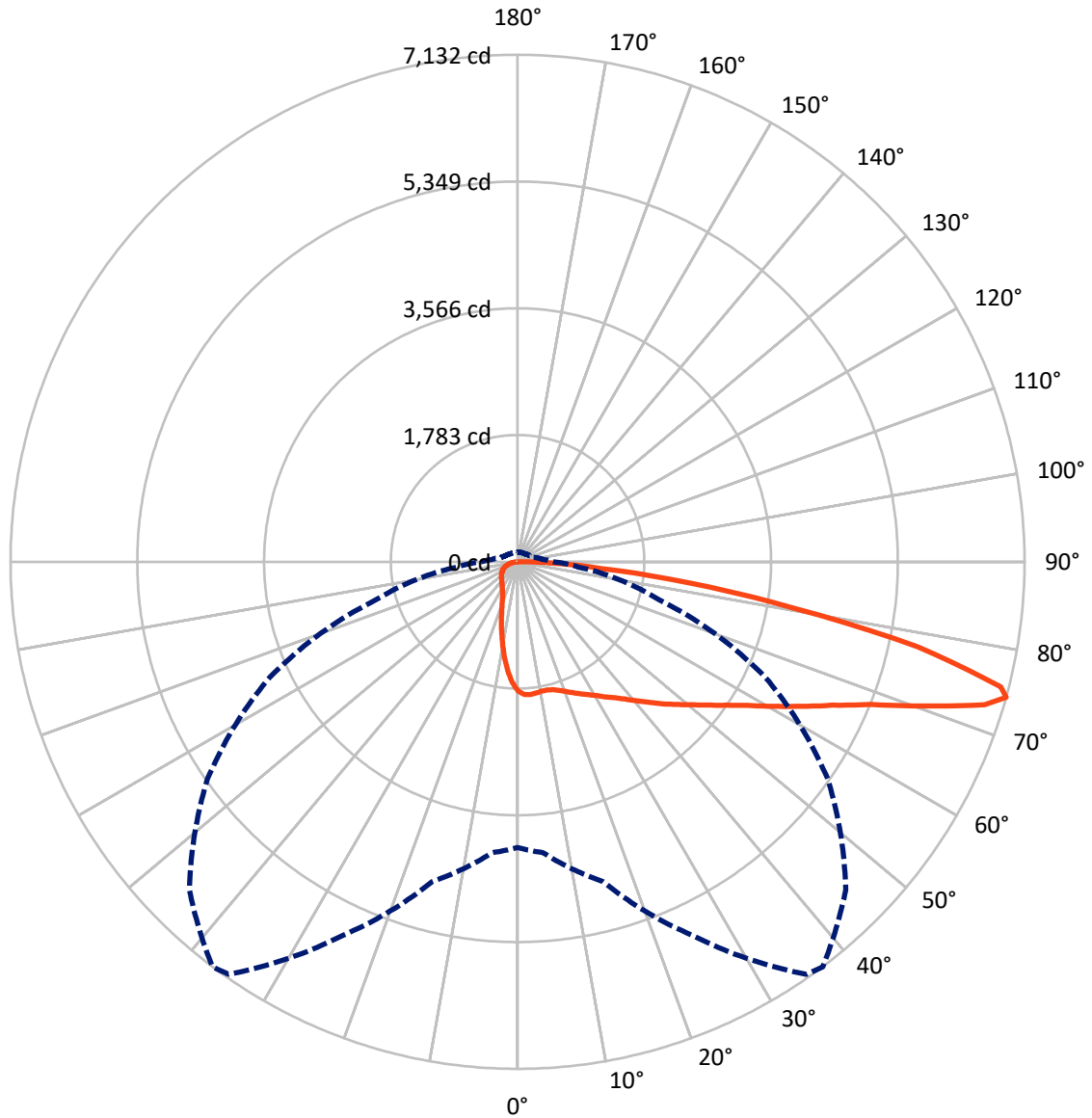
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 37-Deg Lateral - - - Horizontal Cone Through 74-Deg Vertical

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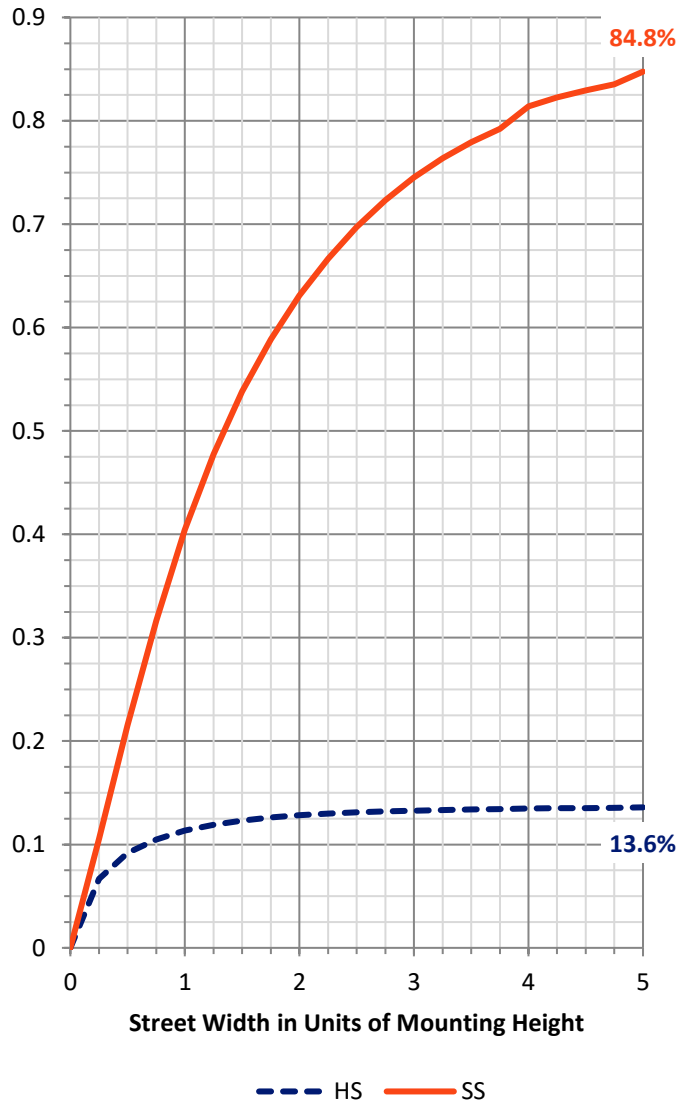
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1424.1	0.0	1424.1
	% Fixture	13.8	0.0	13.8
Street Side	Lumens	8926.3	0.0	8926.3
	% Fixture	86.2	0.0	86.2
Total	Lumens	10350.4	0.0	10350.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	160.6	1.6
10°-20°	411.7	4.0
20°-30°	634.3	6.1
30°-40°	922.3	8.9
40°-50°	1357.5	13.1
50°-60°	1906.4	18.4
60°-70°	2412.9	23.3
70°-80°	2124.6	20.5
80°-90°	420.1	4.1
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°	10350.4	100.0
0°-180°	10350.4	100.0

Coefficient of Utilization

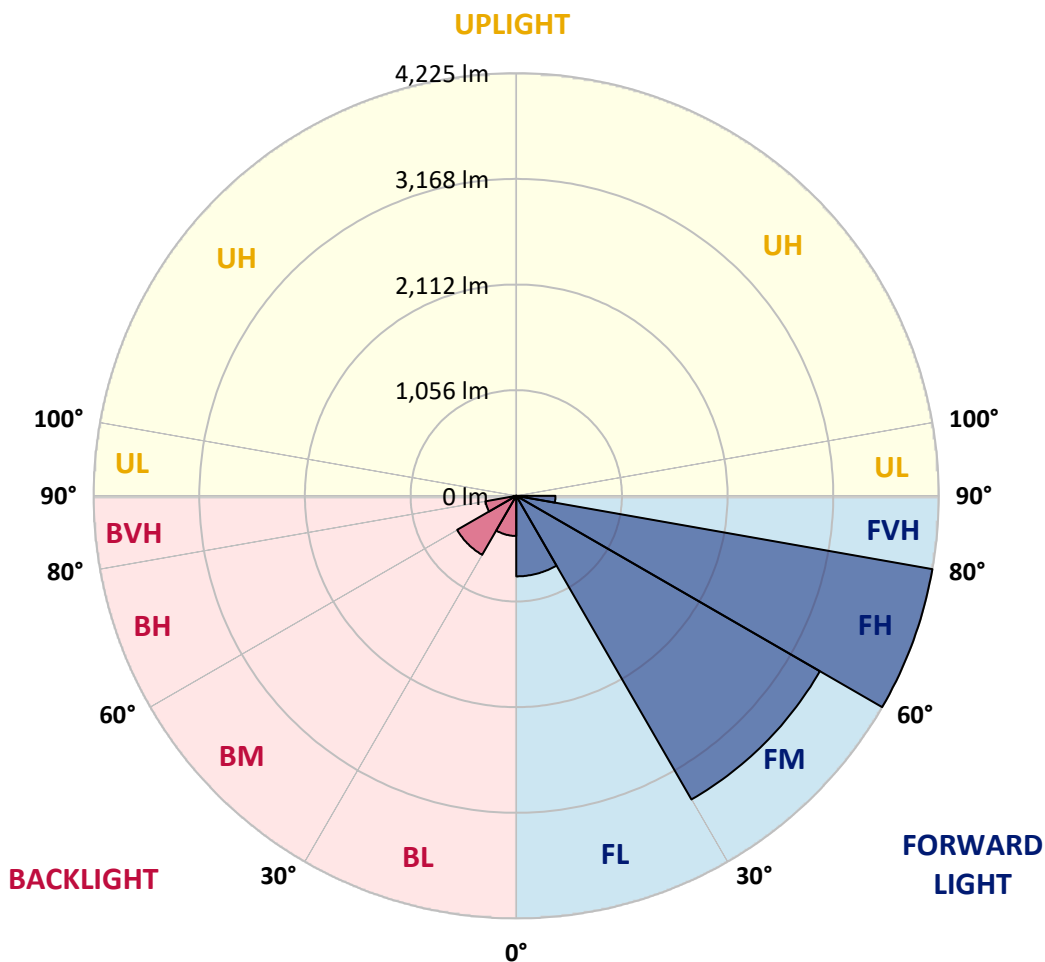


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	805.4	7.8			
FM (30°-60°)	3504.7	33.9			
FH (60°-80°)	4224.5	40.8			G2/5000
FVH (80°-90°)	391.6	3.8			G3/500
BL (0°-30°)	401.1	3.9	B1/500		
BM (30°-60°)	681.5	6.6	B1/1000		
BH (60°-80°)	313.0	3.0	B1/500		G1/500
BVH (80°-90°)	28.5	0.3			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°	37°	45°	55°	65°	75°	85°
0°	1823.7	1823.7	1823.7	1823.7	1823.7	1823.7	1823.7	1823.7	1823.7	1823.7	1823.7
2.5°	1886.0	1886.4	1886.0	1883.1	1876.2	1870.4	1865.6	1858.7	1843.4	1831.7	1814.2
5°	1903.9	1901.8	1900.3	1894.8	1883.9	1877.3	1868.2	1855.1	1829.9	1806.6	1778.1
7.5°	1895.5	1893.0	1889.7	1883.1	1870.7	1865.2	1852.5	1835.3	1805.2	1774.5	1733.6
10°	1869.6	1868.9	1867.5	1866.0	1855.5	1851.1	1839.3	1821.2	1791.3	1754.1	1706.3
12.5°	1840.8	1842.7	1848.5	1856.1	1851.5	1849.2	1841.9	1829.6	1798.9	1758.8	1701.2
15°	1822.6	1827.7	1843.4	1863.5	1867.5	1866.7	1864.9	1856.9	1824.4	1779.9	1712.8
17.5°	1816.4	1824.8	1854.7	1887.9	1899.5	1902.1	1902.8	1889.0	1852.8	1805.8	1724.9
20°	1827.7	1838.3	1882.0	1927.7	1946.2	1947.7	1944.4	1920.3	1879.9	1828.1	1731.5
22.5°	1862.0	1871.5	1926.2	1977.6	1998.7	2000.9	1991.1	1954.6	1908.3	1854.3	1740.6
25°	1928.0	1939.7	1994.4	2045.8	2056.7	2057.0	2042.8	1997.6	1945.4	1891.1	1760.3
27.5°	2014.0	2025.7	2074.9	2125.2	2119.4	2116.1	2096.8	2051.5	1994.0	1941.8	1795.3
30°	2110.0	2122.7	2169.3	2205.1	2191.2	2184.7	2169.0	2110.6	2061.4	2011.1	1848.8
32.5°	2209.1	2220.7	2261.6	2286.0	2268.5	2265.6	2241.9	2188.7	2149.3	2116.8	1935.7
35°	2310.8	2319.2	2359.3	2373.1	2349.8	2349.1	2342.6	2293.7	2268.9	2284.2	2061.8
37.5°	2414.8	2416.9	2451.2	2451.9	2444.9	2447.9	2454.8	2424.2	2431.2	2478.8	2225.8
40°	2507.4	2513.1	2537.9	2545.6	2557.7	2567.8	2602.5	2582.4	2636.0	2720.6	2430.0
42.5°	2575.8	2587.2	2626.9	2646.6	2685.7	2701.7	2750.5	2769.1	2877.0	3003.9	2672.9
45°	2633.9	2651.4	2715.2	2755.6	2821.6	2849.7	2919.7	2982.0	3149.4	3311.3	2928.4
47.5°	2696.6	2718.8	2798.6	2876.0	2965.6	2997.3	3124.6	3217.9	3439.9	3620.5	3169.4
50°	2788.8	2805.9	2884.0	3005.4	3117.3	3158.1	3334.2	3468.1	3735.3	3915.0	3378.4
52.5°	2917.5	2910.9	2976.9	3147.1	3297.4	3347.7	3558.0	3734.2	4034.6	4181.5	3554.8
55°	3046.9	3036.0	3082.3	3295.5	3507.4	3560.3	3804.5	4001.5	4319.4	4421.4	3690.0
57.5°	3190.9	3170.1	3209.2	3462.9	3746.6	3809.7	4080.6	4285.5	4599.3	4615.4	3776.1
60°	3339.3	3311.3	3355.0	3670.4	4050.3	4124.7	4403.6	4562.5	4863.3	4770.7	3803.8
62.5°	3469.1	3449.4	3516.9	3901.9	4392.6	4474.3	4720.8	4857.2	5123.7	4835.3	3703.9
65°	3582.5	3585.8	3702.4	4162.2	4774.4	4861.5	5084.7	5220.3	5328.5	4797.0	3470.2
67.5°	3717.8	3736.3	3935.4	4505.0	5255.0	5350.4	5614.1	5616.2	5443.0	4572.4	3010.1
70°	3915.0	3953.3	4256.0	4980.3	5938.2	6069.4	6272.9	5848.8	5282.2	3963.5	2368.4
72.5°	4090.1	4161.5	4596.8	5524.4	6770.9	6870.4	6658.2	5714.7	4610.3	2970.3	1475.5
74°	4019.0	4107.6	4658.8	5792.4	7084.4	7132.2	6528.1	5323.0	3843.9	2057.0	857.5
75°	3865.8	3962.1	4568.4	5789.8	7044.7	7018.1	6213.8	4875.7	3165.8	1403.0	570.6
77.5°	3119.8	3221.6	3849.4	4962.2	5776.2	5751.1	4773.2	3270.8	1386.5	460.1	289.9
80°	1813.8	1891.5	2389.5	3151.2	3895.0	3940.5	3139.1	1618.5	545.4	258.5	196.6
82.5°	805.8	859.4	1154.3	1608.6	2350.6	2409.3	1644.0	848.1	336.8	157.2	118.1
85°	528.7	568.4	700.7	766.0	1119.3	1159.4	804.7	660.3	222.4	86.4	86.7
87.5°	380.3	418.5	520.6	454.7	513.7	486.4	437.9	611.1	89.3	49.2	29.2
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°	1823.7	1823.7	1823.7	1823.7	1823.7	1823.7	1823.7	1823.7	1823.7	1823.7	1823.7
2.5°	1806.6	1800.8	1787.6	1762.9	1749.0	1737.3	1718.0	1706.7	1701.6	1701.2	1703.4
5°	1761.7	1748.2	1714.3	1672.8	1639.6	1609.3	1571.8	1549.2	1533.1	1523.6	1526.2
7.5°	1709.6	1688.4	1635.2	1568.8	1515.6	1456.9	1398.9	1364.3	1337.3	1317.3	1320.9
10°	1673.9	1644.6	1567.0	1471.5	1382.9	1297.6	1217.7	1170.0	1132.1	1102.9	1105.1
12.5°	1661.8	1622.5	1514.9	1387.3	1263.0	1146.3	1042.0	968.7	929.7	896.5	899.1
15°	1663.7	1610.7	1471.1	1311.4	1155.0	1008.1	881.6	795.9	743.0	720.1	720.5
17.5°	1665.1	1597.3	1425.2	1230.1	1048.2	879.0	741.6	654.8	604.9	583.7	584.1
20°	1660.4	1575.4	1368.4	1136.8	936.7	760.5	627.5	553.8	515.9	499.5	499.5
22.5°	1654.1	1549.5	1304.2	1043.1	826.6	657.8	545.8	489.6	467.7	456.8	456.5
25°	1657.1	1530.2	1238.5	946.8	725.2	575.7	491.5	454.3	439.7	432.8	432.4
27.5°	1672.8	1521.1	1178.0	851.0	636.6	514.1	455.1	428.8	419.3	414.9	414.9
30°	1701.2	1521.1	1115.0	769.3	562.9	468.5	426.9	409.0	402.5	399.6	399.6
32.5°	1750.8	1529.5	1054.0	688.3	504.2	432.8	403.6	391.5	386.5	385.0	385.0
35°	1836.1	1557.9	994.6	611.7	456.8	403.6	381.4	374.5	370.8	370.4	371.5
37.5°	1956.1	1615.9	938.8	555.3	423.3	379.9	362.7	357.3	355.1	357.0	358.4
40°	2107.0	1694.7	888.1	504.2	397.8	361.0	345.6	342.0	340.9	343.5	345.6
42.5°	2289.3	1801.1	846.6	467.5	378.1	345.0	331.1	326.7	325.6	328.5	331.4
45°	2486.6	1915.5	817.4	440.1	362.7	332.8	318.3	313.6	311.3	312.8	316.1
47.5°	2665.9	2023.9	805.8	420.8	348.2	322.7	306.9	301.2	297.5	296.8	299.3
50°	2817.2	2104.5	811.2	409.0	336.5	311.3	296.0	289.5	284.0	280.8	282.5
52.5°	2927.3	2155.1	816.3	404.0	327.4	298.9	284.0	277.8	270.5	265.0	265.0
55°	3007.2	2166.8	805.0	400.0	320.5	285.5	270.5	264.7	257.4	251.2	250.5
57.5°	3038.5	2134.0	763.1	394.1	315.7	272.8	256.3	251.9	245.7	238.5	238.1
60°	2996.2	2032.6	682.2	381.7	309.6	262.1	242.1	239.1	236.2	229.3	229.0
62.5°	2826.3	1810.2	577.6	356.6	297.2	250.9	229.0	230.5	230.7	226.1	225.3
65°	2518.3	1504.7	475.5	323.8	278.5	237.4	215.5	222.4	226.5	225.7	224.6
67.5°	2070.6	1171.0	402.9	289.2	254.1	218.7	200.9	208.9	212.2	214.7	214.0
70°	1536.8	825.8	333.2	252.6	224.6	196.8	181.9	185.9	183.8	186.7	187.8
72.5°	856.8	495.5	271.6	216.2	193.9	171.4	160.8	160.0	155.3	155.3	155.3
74°	514.1	363.5	238.8	193.6	175.4	154.5	145.5	142.2	137.8	138.1	137.8
75°	413.4	312.4	219.1	178.7	162.3	144.8	135.6	131.3	128.0	128.0	127.6
77.5°	261.0	237.4	176.4	142.2	129.8	119.2	113.0	107.2	107.2	106.8	106.5
80°	197.2	188.8	137.5	107.6	99.5	91.5	87.5	85.0	85.0	86.1	85.7
82.5°	135.3	142.2	96.6	75.1	71.1	65.3	64.6	64.9	63.8	62.3	61.9
85°	98.8	106.8	65.3	47.4	43.4	39.8	42.7	44.2	42.3	39.0	37.5
87.5°	37.9	70.0	35.0	19.7	18.3	15.6	18.3	19.0	20.4	16.0	16.4
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)