

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: P382959

Luminaire Tested: **GLEON-SA3A-735-U-T4FT**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P382959  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-16)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GLEON-SA3A-735-U-T4FT  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV  
FORWARD THROW OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 13332.3 lumens  
Efficiency: N/A  
Efficacy: 138.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G3

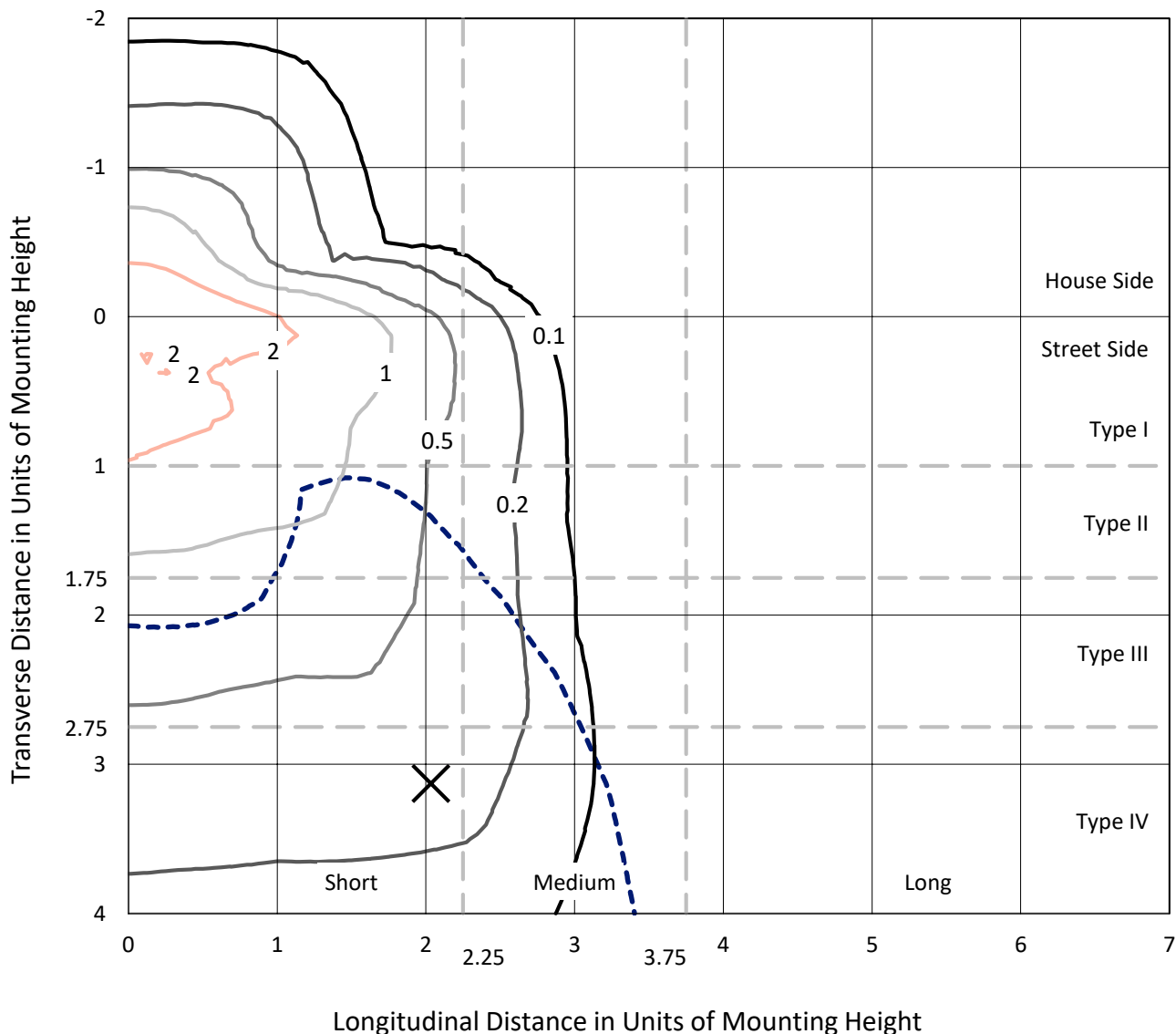
Input Watts (W): 96  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

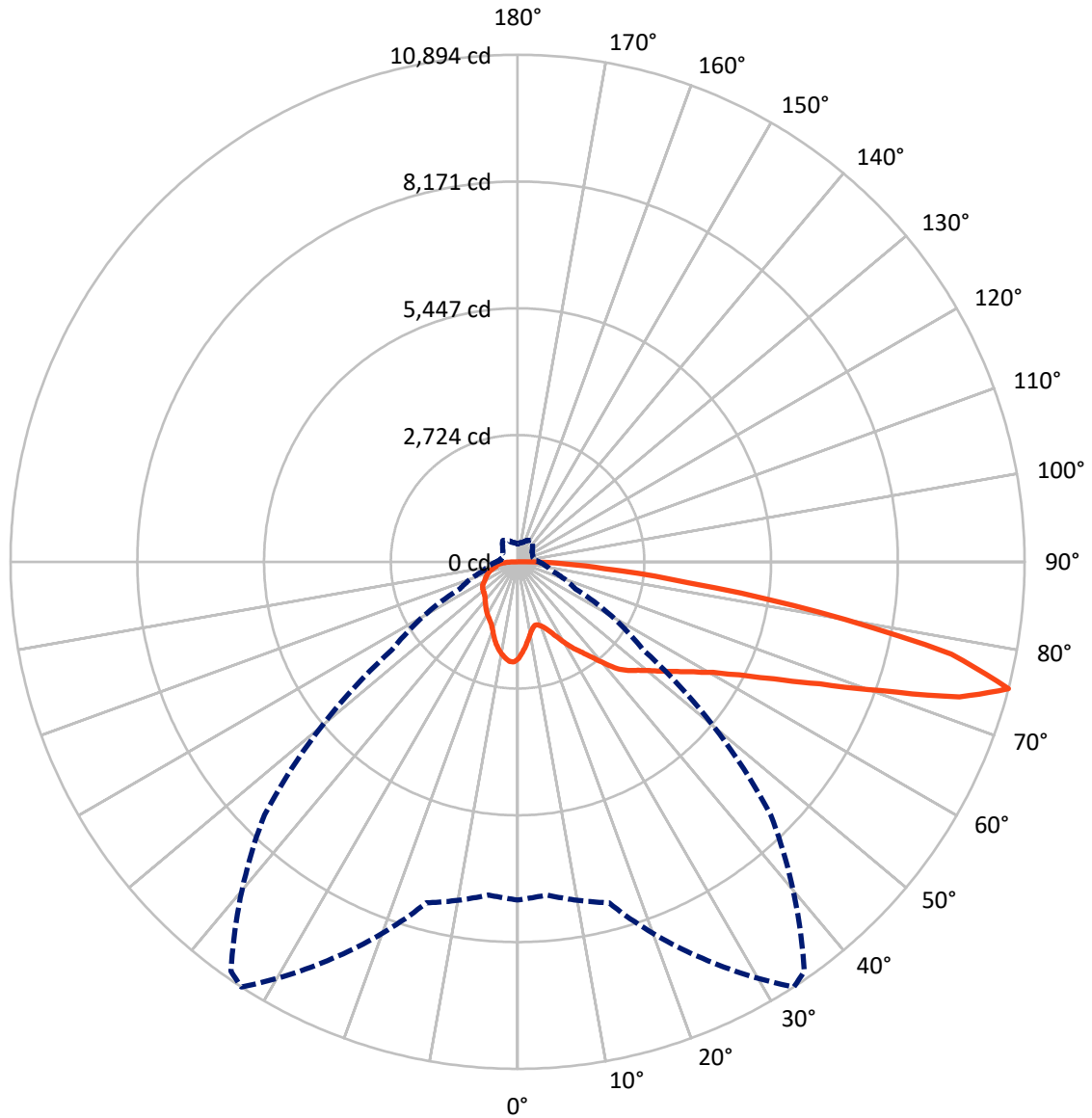
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.3 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 33-Deg Lateral      - - - Horizontal Cone Through 75-Deg Vertical

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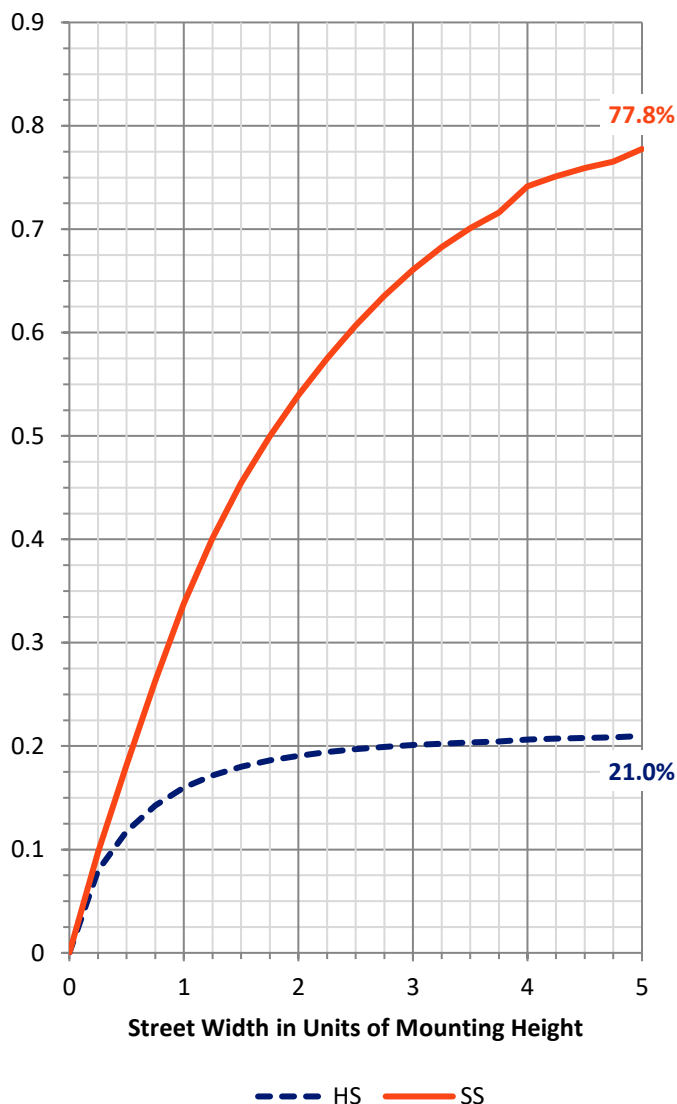
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2862.8	0.0	2862.8
	% Fixture	21.5	0.0	21.5
<b>Street Side</b>	Lumens	10469.5	0.0	10469.5
	% Fixture	78.5	0.0	78.5
<b>Total</b>	Lumens	13332.3	0.0	13332.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	188.5	1.4
10°-20°	510.4	3.8
20°-30°	833.6	6.3
30°-40°	1241.5	9.3
40°-50°	1780.6	13.4
50°-60°	2444.5	18.3
60°-70°	3060.4	23.0
70°-80°	2768.6	20.8
80°-90°	504.3	3.8
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°	13332.3	100.0
0°-180°	13332.3	100.0

**Coefficient of Utilization**

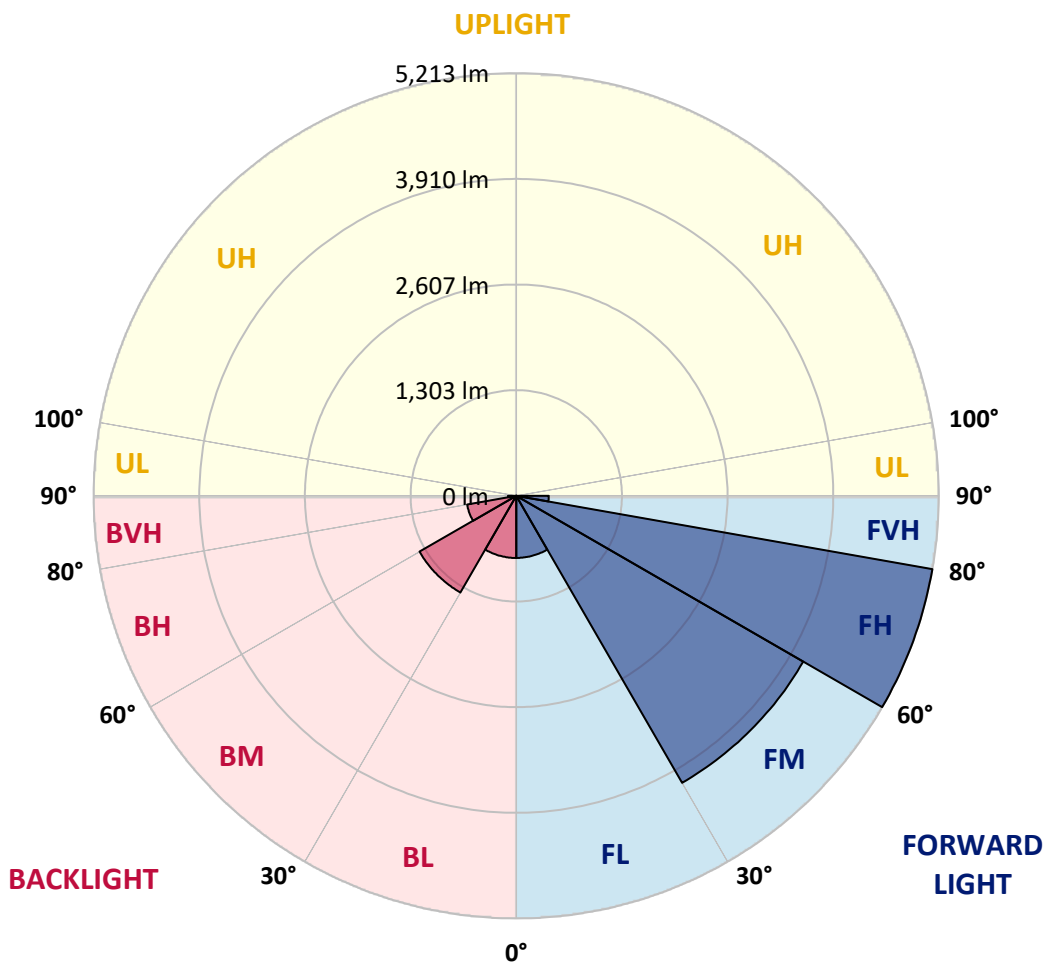


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	765.7	5.7			
FM (30°-60°)	4088.7	30.7			
FH (60°-80°)	5213.4	39.1			G3/7500
FVH (80°-90°)	401.6	3.0			G3/500
BL (0°-30°)	766.8	5.8	B2/1000		
BM (30°-60°)	1377.8	10.3	B2/2500		
BH (60°-80°)	615.6	4.6	B2/1000		G2/1000
BVH (80°-90°)	102.7	0.8			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G3**  
 Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	33°	35°	45°	55°	65°	75°	85°
0°	2083.9	2083.9	2083.9	2083.9	2083.9	2083.9	2083.9	2083.9	2083.9	2083.9	2083.9
2.5°	1935.2	1927.8	1941.6	1943.5	1955.4	1960.1	1976.7	2002.4	2023.6	2048.0	2070.1
5°	1759.7	1754.7	1773.9	1787.8	1814.0	1825.1	1864.2	1919.1	1967.9	2023.1	2073.3
7.5°	1592.9	1590.2	1611.9	1643.2	1673.6	1688.8	1756.4	1836.2	1917.7	2007.0	2083.9
10°	1452.6	1451.6	1472.3	1503.1	1547.9	1564.9	1652.4	1757.4	1871.6	1994.5	2101.9
12.5°	1373.8	1377.0	1386.7	1412.4	1453.9	1470.9	1568.1	1691.5	1832.9	1990.4	2128.1
15°	1393.1	1398.2	1381.6	1380.6	1410.2	1423.5	1514.7	1644.6	1805.2	1997.3	2166.3
17.5°	1475.6	1476.5	1432.7	1405.1	1423.0	1429.9	1498.1	1617.8	1789.1	2013.0	2214.3
20°	1591.6	1589.3	1511.9	1465.9	1475.6	1477.4	1521.6	1618.3	1787.8	2040.2	2276.4
22.5°	1745.4	1728.4	1624.3	1561.6	1559.4	1556.6	1582.0	1652.4	1808.0	2084.3	2350.6
25°	1946.2	1930.1	1786.9	1701.2	1682.7	1675.9	1679.6	1725.1	1848.1	2131.8	2433.5
27.5°	2169.6	2141.4	2003.3	1882.2	1844.0	1834.3	1812.2	1827.9	1891.9	2177.4	2532.0
30°	2356.5	2341.4	2220.7	2077.0	2031.9	2018.1	1960.1	1943.0	1954.9	2239.5	2656.4
32.5°	2461.1	2451.0	2377.8	2261.7	2219.8	2200.4	2118.4	2084.3	2056.3	2337.6	2824.9
35°	2587.7	2581.3	2537.1	2452.8	2390.6	2370.3	2306.8	2271.4	2199.0	2472.6	3042.7
37.5°	2748.9	2742.0	2742.9	2674.8	2600.6	2581.8	2539.9	2502.5	2384.2	2649.9	3279.4
40°	2931.3	2918.0	2912.9	2909.7	2862.6	2852.1	2829.9	2779.4	2616.3	2861.7	3513.0
42.5°	3205.7	3158.3	3057.1	3095.3	3141.7	3136.2	3154.2	3081.5	2874.2	3112.3	3740.9
45°	3470.6	3392.8	3217.8	3226.0	3327.9	3358.7	3493.1	3441.6	3153.8	3386.7	3976.7
47.5°	3591.2	3532.3	3383.6	3384.0	3484.8	3548.9	3843.7	3806.8	3447.6	3698.5	4264.5
50°	3726.2	3667.2	3533.6	3583.8	3671.9	3740.0	4182.1	4163.2	3727.1	4039.8	4609.5
52.5°	3873.6	3773.6	3688.8	3778.6	3902.1	3981.3	4521.1	4469.5	3983.6	4383.4	5006.0
55°	3875.4	3848.2	3912.7	3978.5	4163.2	4260.4	4876.1	4739.8	4192.7	4720.9	5328.8
57.5°	4096.0	4051.8	4188.5	4219.0	4460.2	4569.9	5229.3	4975.1	4405.5	4979.8	5502.9
60°	4388.0	4350.2	4462.1	4542.2	4827.7	4974.2	5606.5	5216.9	4572.6	5175.0	5494.6
62.5°	4892.2	4849.5	4848.1	4960.4	5344.9	5515.3	6029.7	5454.1	4638.9	5213.7	5260.2
65°	5630.5	5562.4	5433.8	5487.3	6059.3	6229.2	6502.8	5625.9	4551.4	5006.4	4656.4
67.5°	6349.0	6346.6	6188.6	6298.3	7002.4	7138.7	7041.6	5642.9	4278.3	4284.8	3585.2
70°	7065.0	7074.3	7047.5	7428.9	8276.7	8418.6	7615.4	5414.1	3664.4	3094.3	2148.0
72.5°	7632.4	7630.1	7764.6	8747.8	9930.5	9898.7	8099.0	4720.4	2631.1	1670.4	1026.6
75°	7265.0	7184.7	7585.4	9400.9	10894.4	10739.2	7687.7	3292.8	1365.5	760.3	552.6
77.5°	4738.4	4814.4	5402.5	7765.9	9529.4	9340.5	5640.1	1536.3	643.3	498.8	400.7
80°	1715.9	1796.1	2529.7	4399.0	6565.4	6534.5	2777.5	631.4	435.2	376.7	291.9
82.5°	590.4	619.9	998.0	1953.5	3706.8	3845.0	1044.9	358.7	316.4	267.1	199.9
85°	231.7	265.3	456.4	939.9	1869.8	1883.6	423.2	214.6	220.1	175.0	109.6
87.5°	87.9	106.8	218.3	436.6	853.9	784.3	151.5	102.3	125.3	104.1	52.1
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°	2083.9	2083.9	2083.9	2083.9	2083.9	2083.9	2083.9	2083.9	2083.9	2083.9	2083.9
2.5°	2087.1	2096.8	2117.0	2130.9	2145.6	2149.7	2151.6	2155.3	2159.0	2157.6	2158.0
5°	2100.0	2118.9	2151.6	2165.5	2171.9	2164.5	2150.2	2138.7	2130.4	2125.8	2124.5
7.5°	2121.2	2148.0	2182.9	2180.7	2165.8	2133.2	2096.4	2068.7	2045.7	2037.4	2032.8
10°	2149.3	2180.7	2205.1	2178.8	2135.9	2079.3	2024.1	1981.2	1946.7	1933.3	1931.0
12.5°	2185.2	2217.0	2221.6	2165.8	2095.0	2017.6	1942.6	1885.9	1834.3	1817.7	1814.0
15°	2231.7	2261.7	2233.1	2143.3	2044.3	1940.2	1843.1	1766.1	1711.8	1691.5	1684.1
17.5°	2280.5	2309.1	2235.4	2106.0	1978.0	1848.6	1726.5	1647.8	1585.6	1562.1	1559.4
20°	2339.0	2352.0	2225.7	2052.6	1886.8	1729.8	1601.2	1527.1	1494.0	1477.4	1475.6
22.5°	2411.3	2397.5	2203.7	1980.3	1771.2	1592.5	1488.0	1453.4	1445.1	1441.5	1442.9
25°	2487.8	2445.4	2171.0	1885.9	1625.2	1455.3	1405.1	1414.7	1425.8	1424.4	1424.4
27.5°	2572.1	2494.2	2120.8	1760.6	1463.6	1342.9	1348.9	1384.4	1401.0	1400.5	1400.0
30°	2680.3	2549.6	2056.8	1610.0	1312.6	1263.7	1300.1	1343.4	1365.9	1365.0	1365.5
32.5°	2813.4	2610.3	1969.7	1441.9	1203.4	1205.2	1247.2	1289.9	1316.2	1313.9	1314.3
35°	2969.0	2678.5	1851.8	1276.1	1131.1	1158.7	1191.8	1221.8	1246.7	1243.4	1240.3
37.5°	3138.6	2745.3	1695.2	1127.8	1072.1	1115.4	1143.0	1148.1	1159.6	1151.3	1145.3
40°	3299.7	2796.3	1493.6	1006.3	1012.7	1078.5	1096.5	1076.3	1055.5	1052.7	1044.5
42.5°	3440.2	2813.4	1289.4	909.1	950.1	1039.9	1051.0	1008.6	971.2	953.8	946.4
45°	3588.5	2819.4	1099.3	827.6	889.7	1005.3	1017.3	960.7	908.2	870.4	858.0
47.5°	3782.4	2862.6	951.5	767.2	843.7	982.3	999.4	922.4	854.3	800.4	788.9
50°	4036.1	2948.3	831.2	721.2	813.8	967.1	986.5	885.2	810.1	745.1	733.6
52.5°	4318.0	3027.1	734.1	683.8	784.7	940.4	969.9	858.4	768.6	694.0	681.6
55°	4515.1	2966.8	655.8	645.2	747.0	902.2	946.8	835.9	709.2	644.3	633.3
57.5°	4552.8	2760.5	596.4	605.1	701.4	854.3	911.4	785.7	677.0	622.6	611.1
60°	4449.6	2473.1	552.2	568.3	652.5	794.0	845.1	750.2	646.1	599.6	589.9
62.5°	4190.4	2178.8	519.5	535.2	607.0	732.8	803.6	712.9	614.8	573.4	563.7
65°	3666.8	1829.3	488.1	505.6	564.6	679.8	766.3	678.4	584.0	552.2	543.0
67.5°	2767.8	1370.1	458.7	474.3	526.9	633.7	725.8	644.3	554.0	533.8	522.7
70°	1629.8	858.0	425.1	441.6	487.2	585.8	682.5	607.0	516.7	507.5	493.3
72.5°	758.5	516.3	386.9	403.0	437.5	521.8	626.7	558.2	472.5	452.3	432.9
75°	452.7	377.6	341.7	356.0	380.4	453.7	556.8	508.4	430.6	403.9	383.6
77.5°	338.5	288.8	291.9	307.1	327.0	397.0	493.3	469.3	398.3	377.6	363.9
80°	243.6	219.2	238.1	254.7	275.4	361.1	472.5	433.8	360.1	332.5	319.6
82.5°	162.6	157.5	179.1	196.2	216.5	315.9	444.0	380.0	307.6	272.7	244.1
85°	89.8	94.8	120.6	128.0	145.5	222.5	363.9	305.4	231.7	186.5	178.2
87.5°	37.3	43.8	64.9	62.6	77.4	132.7	239.5	184.2	147.4	110.1	85.7
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)