

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: P382903

Luminaire Tested: **GLEON-SA2C-735-U-T4FT**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P382903
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-SA2C-735-U-T4FT
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3500K, 1050mA 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: 13562.4 lumens
Efficiency: N/A
Efficacy: 120.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

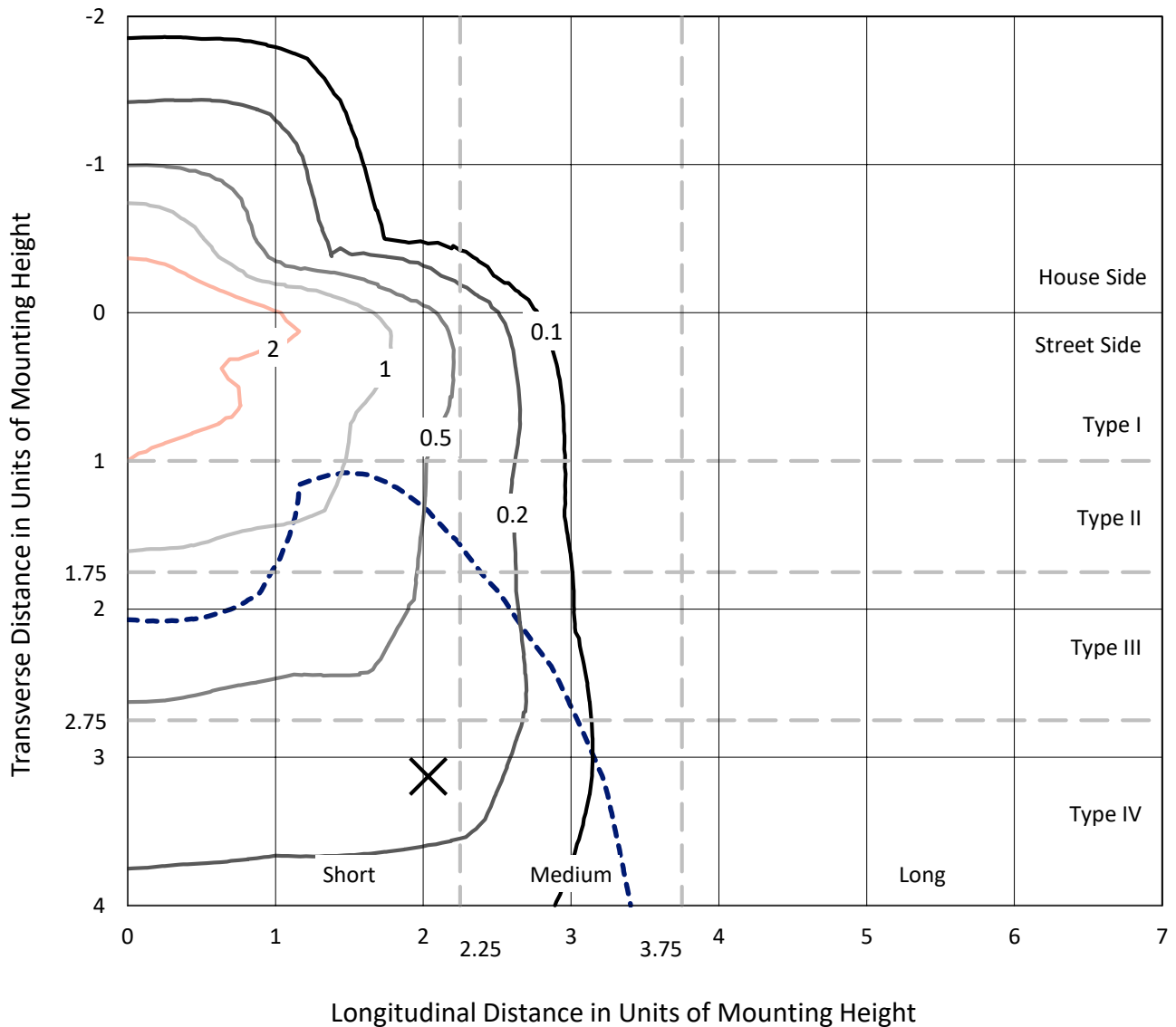
Input Watts (W): 113
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P382903
 CATALOG NUMBER: GLEON-SA2C-735-U-T4FT

Iso-Footcandle Lines of Horizontal Illumination

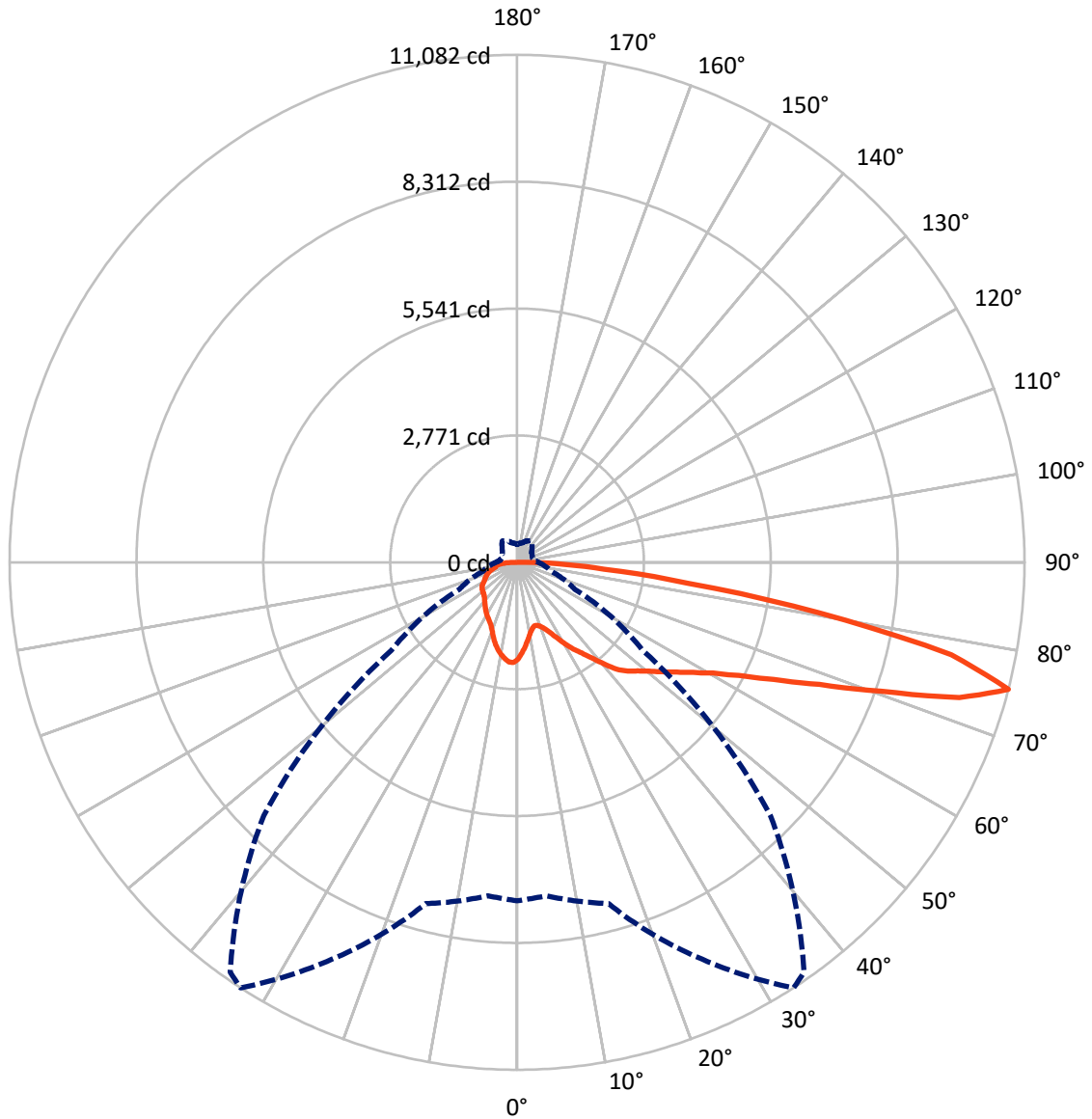
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.4 fc
 Type IV - Short - N/A

REPORT NUMBER: P382903
CATALOG NUMBER: GLEON-SA2C-735-U-T4FT

Luminous Intensity Polar Plot



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

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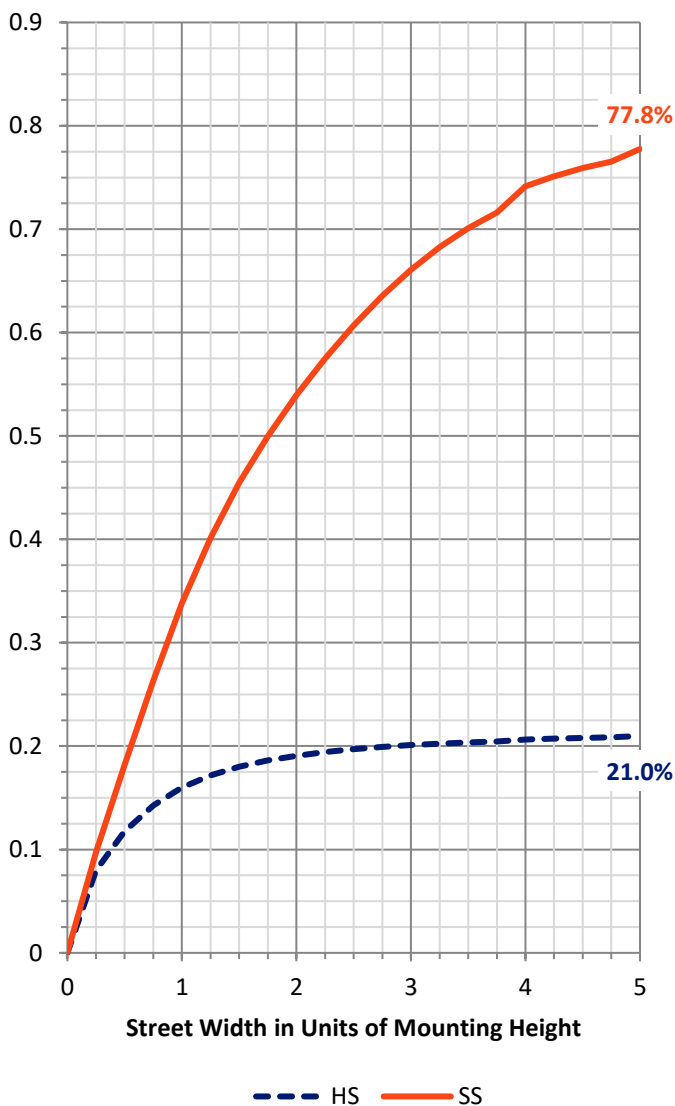
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2912.2	0.0	2912.2
	% Fixture	21.5	0.0	21.5
Street Side	Lumens	10650.2	0.0	10650.2
	% Fixture	78.5	0.0	78.5
Total	Lumens	13562.4	0.0	13562.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	191.7	1.4
10°-20°	519.2	3.8
20°-30°	848.0	6.3
30°-40°	1262.9	9.3
40°-50°	1811.3	13.4
50°-60°	2486.7	18.3
60°-70°	3113.2	23.0
70°-80°	2816.4	20.8
80°-90°	513.0	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°	13562.4	100.0
0°-180°	13562.4	100.0

Coefficient of Utilization

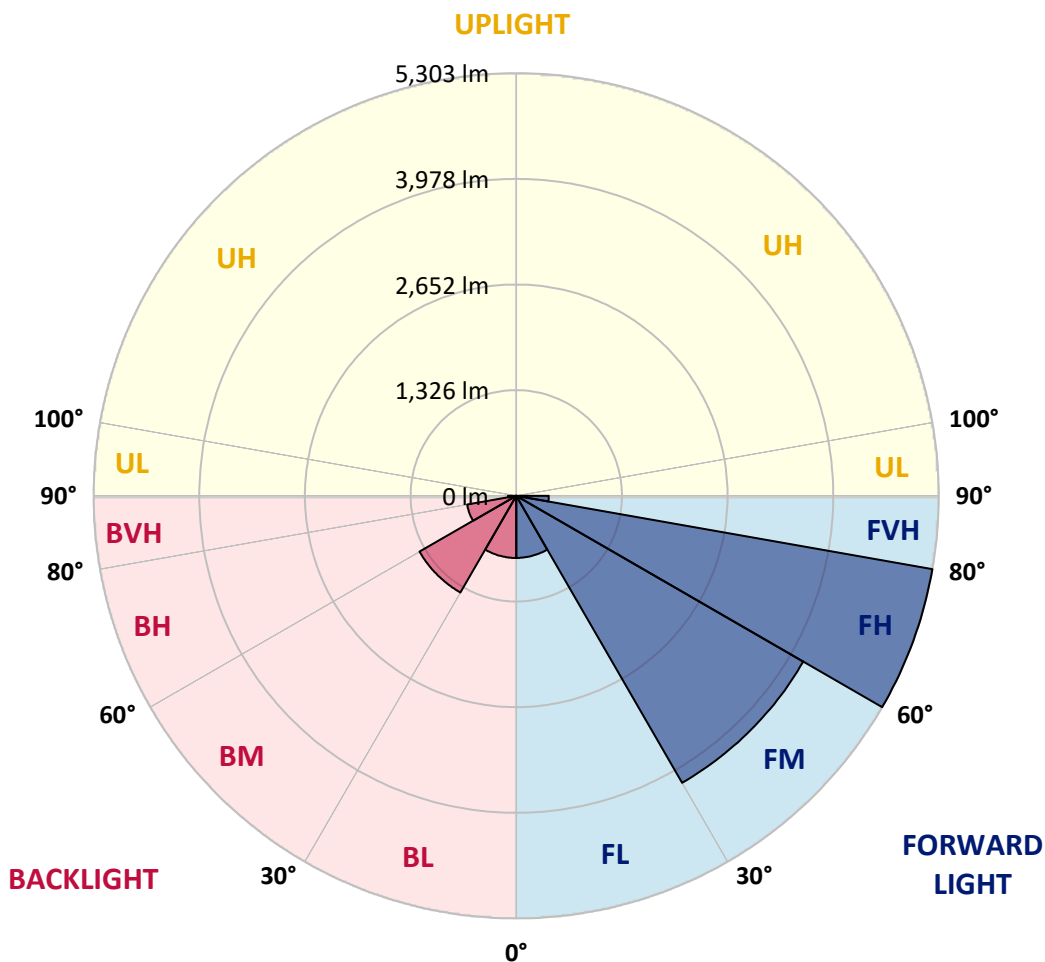


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	779.0	5.7			
FM (30°-60°)	4159.3	30.7			
FH (60°-80°)	5303.4	39.1			G3/7500
FVH (80°-90°)	408.6	3.0			G3/500
BL (0°-30°)	780.0	5.8	B2/1000		
BM (30°-60°)	1401.6	10.3	B2/2500		
BH (60°-80°)	626.2	4.6	B2/1000		G2/1000
BVH (80°-90°)	104.4	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°	2119.9	2119.9	2119.9	2119.9	2119.9	2119.9	2119.9	2119.9	2119.9	2119.9	2119.9
2.5°	1968.5	1961.1	1975.2	1977.0	1989.1	1993.9	2010.7	2036.9	2058.5	2083.3	2105.9
5°	1790.1	1784.9	1804.6	1818.7	1845.3	1856.6	1896.4	1952.2	2001.8	2058.1	2109.1
7.5°	1620.5	1617.6	1639.7	1671.6	1702.5	1718.0	1786.8	1867.8	1950.8	2041.7	2119.9
10°	1477.6	1476.7	1497.7	1529.1	1574.6	1591.9	1680.9	1787.7	1903.9	2029.0	2138.2
12.5°	1397.5	1400.8	1410.6	1436.8	1479.0	1496.3	1595.2	1720.8	1864.6	2024.8	2164.8
15°	1417.2	1422.3	1405.4	1404.5	1434.5	1448.1	1540.9	1673.0	1836.5	2031.8	2203.8
17.5°	1501.0	1501.9	1457.4	1429.4	1447.6	1454.6	1524.0	1645.8	1820.1	2047.7	2252.5
20°	1619.0	1616.7	1538.0	1491.2	1501.0	1502.9	1547.9	1646.2	1818.7	2075.4	2315.7
22.5°	1775.5	1758.2	1652.4	1588.7	1586.2	1583.4	1609.2	1680.9	1839.2	2120.4	2391.1
25°	1979.8	1963.4	1817.7	1730.5	1711.8	1704.8	1708.6	1754.9	1880.0	2168.6	2475.5
27.5°	2207.0	2178.4	2037.9	1914.7	1875.8	1866.0	1843.4	1859.4	1924.5	2214.9	2575.7
30°	2397.2	2381.8	2259.0	2112.8	2066.9	2052.9	1993.9	1976.6	1988.7	2278.2	2702.2
32.5°	2503.5	2493.3	2418.8	2300.7	2258.1	2238.4	2155.0	2120.4	2091.8	2378.1	2873.6
35°	2632.4	2625.8	2580.9	2495.2	2431.9	2411.3	2346.7	2310.5	2237.0	2515.3	3095.3
37.5°	2796.4	2789.3	2790.3	2721.0	2645.5	2626.3	2583.6	2545.7	2425.3	2695.6	3336.1
40°	2981.9	2968.3	2963.2	2959.9	2912.1	2901.3	2878.9	2827.2	2661.4	2911.2	3573.6
42.5°	3261.1	3212.8	3109.8	3148.6	3196.0	3190.4	3208.6	3134.6	2923.8	3166.0	3805.5
45°	3530.5	3451.3	3273.3	3281.7	3385.2	3416.6	3553.4	3500.9	3208.2	3445.2	4045.3
47.5°	3653.3	3593.3	3442.0	3442.4	3545.0	3610.1	3910.0	3872.4	3507.1	3762.3	4338.1
50°	3790.5	3730.5	3594.7	3645.7	3735.2	3804.5	4254.3	4235.1	3791.4	4109.5	4689.0
52.5°	3940.4	3838.7	3752.6	3843.9	3969.4	4050.0	4599.1	4546.6	4052.3	4459.0	5092.4
55°	3942.3	3914.6	3980.2	4047.2	4235.1	4333.9	4960.3	4821.6	4265.1	4802.4	5420.8
57.5°	4166.7	4121.7	4260.8	4291.7	4537.3	4648.7	5319.6	5061.0	4481.5	5065.7	5597.9
60°	4463.7	4425.3	4539.2	4620.7	4911.1	5060.1	5703.3	5306.9	4651.6	5264.4	5589.5
62.5°	4976.7	4933.1	4931.7	5046.0	5437.2	5610.5	6133.9	5548.2	4719.0	5303.7	5351.0
65°	5727.6	5658.3	5527.6	5581.9	6163.8	6336.7	6614.9	5723.0	4630.0	5092.9	4736.8
67.5°	6458.5	6456.2	6295.5	6407.0	7123.3	7262.0	7163.0	5740.3	4352.2	4358.7	3647.1
70°	7187.0	7196.4	7169.2	7557.1	8419.5	8563.8	7746.8	5507.5	3727.7	3147.7	2185.0
72.5°	7764.2	7761.8	7898.6	8898.8	10101.9	10069.6	8238.7	4801.9	2676.4	1699.1	1044.3
75°	7390.3	7308.7	7716.4	9563.1	11082.4	10924.5	7820.3	3349.7	1389.0	773.5	562.2
77.5°	4820.2	4897.5	5495.8	7900.0	9693.8	9501.8	5737.5	1562.9	654.5	507.3	407.6
80°	1745.5	1827.0	2573.4	4475.0	6678.6	6647.2	2825.4	642.3	442.7	383.2	297.0
82.5°	600.6	630.6	1015.2	1987.3	3770.8	3911.4	1063.0	365.0	321.8	271.7	203.4
85°	235.7	269.9	464.3	956.1	1902.0	1916.1	430.6	218.4	223.9	178.0	111.5
87.5°	89.5	108.7	222.1	444.2	868.6	797.9	154.2	104.0	127.4	105.9	52.9
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°	2119.9	2119.9	2119.9	2119.9	2119.9	2119.9	2119.9	2119.9	2119.9	2119.9	2119.9
2.5°	2123.2	2133.0	2153.6	2167.6	2182.6	2186.9	2188.8	2192.5	2196.2	2194.8	2195.3
5°	2136.3	2155.5	2188.8	2202.8	2209.4	2201.9	2187.4	2175.6	2167.2	2162.5	2161.1
7.5°	2157.8	2185.0	2220.6	2218.3	2203.3	2170.0	2132.5	2104.5	2081.0	2072.6	2067.8
10°	2186.4	2218.3	2243.1	2216.4	2172.8	2115.2	2059.0	2015.4	1980.3	1966.7	1964.4
12.5°	2223.0	2255.3	2259.9	2203.3	2131.1	2052.4	1976.1	1918.4	1866.0	1849.1	1845.3
15°	2270.3	2300.7	2271.7	2180.3	2079.6	1973.7	1874.8	1796.6	1741.3	1720.8	1713.2
17.5°	2319.9	2349.0	2274.0	2142.4	2012.1	1880.5	1756.3	1676.2	1613.0	1589.1	1586.2
20°	2379.5	2392.5	2264.1	2088.1	1919.4	1759.6	1628.9	1553.4	1519.7	1502.9	1501.0
22.5°	2453.0	2438.9	2241.7	2014.5	1801.8	1620.1	1513.7	1478.6	1470.1	1466.3	1467.7
25°	2530.7	2487.6	2208.4	1918.4	1653.3	1480.4	1429.4	1439.1	1450.4	1449.0	1449.0
27.5°	2616.4	2537.3	2157.4	1791.0	1488.8	1366.1	1372.2	1408.2	1425.1	1424.6	1424.1
30°	2726.5	2593.5	2092.3	1637.8	1335.2	1285.5	1322.5	1366.6	1389.5	1388.6	1389.0
32.5°	2862.0	2655.4	2003.7	1466.8	1224.1	1226.0	1268.7	1312.2	1338.9	1336.6	1337.1
35°	3020.3	2724.7	1883.8	1298.2	1150.6	1178.7	1212.4	1242.9	1268.2	1264.9	1261.6
37.5°	3192.7	2792.6	1724.5	1147.3	1090.7	1134.6	1162.8	1167.9	1179.6	1171.2	1165.1
40°	3356.6	2844.7	1519.3	1023.7	1030.2	1097.2	1115.4	1094.8	1073.8	1070.9	1062.5
42.5°	3499.5	2862.0	1311.7	924.7	966.5	1057.9	1069.0	1026.0	988.0	970.2	962.8
45°	3650.4	2868.0	1118.2	841.8	905.1	1022.7	1034.9	977.3	923.8	885.4	872.8
47.5°	3847.7	2912.1	967.9	780.5	858.2	999.3	1016.6	938.3	869.0	814.3	802.5
50°	4105.8	2999.2	845.6	733.7	827.8	983.8	1003.5	900.4	824.0	758.0	746.3
52.5°	4392.5	3079.3	746.7	695.7	798.3	956.6	986.6	873.2	781.9	706.0	693.4
55°	4593.0	3017.9	667.1	656.4	759.9	917.8	963.2	850.3	721.5	655.4	644.2
57.5°	4631.4	2808.1	606.7	615.6	713.5	869.0	927.2	799.3	688.7	633.4	621.7
60°	4526.5	2515.7	561.7	578.1	663.8	807.7	859.6	763.1	657.3	610.0	600.1
62.5°	4262.7	2216.4	528.5	544.4	617.4	745.3	817.5	725.2	625.4	583.2	573.5
65°	3730.0	1860.8	496.6	514.4	574.4	691.5	779.5	690.1	594.0	561.7	552.3
67.5°	2815.6	1393.7	466.6	482.5	535.9	644.6	738.3	655.4	563.6	543.0	531.7
70°	1658.0	872.8	432.4	449.3	495.7	595.9	694.3	617.4	525.7	516.3	501.7
72.5°	771.6	525.2	393.5	409.9	445.1	530.8	637.6	567.8	480.7	460.1	440.3
75°	460.6	384.2	347.7	362.1	387.0	461.5	566.4	517.2	438.0	410.8	390.2
77.5°	344.3	293.7	297.0	312.4	332.7	403.8	501.7	477.4	405.2	384.2	370.1
80°	247.8	223.0	242.2	259.1	280.1	367.3	480.7	441.3	366.4	338.2	325.1
82.5°	165.3	160.2	182.2	199.5	220.2	321.4	451.6	386.5	312.9	277.3	248.3
85°	91.4	96.5	122.8	130.2	148.0	226.3	370.1	310.6	235.7	189.8	181.3
87.5°	37.9	44.5	66.0	63.7	78.7	134.9	243.6	187.4	149.9	112.0	87.1
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)