

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: P528892

Luminaire Tested: **GALN-SA4A-730-U-T2R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P528892
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-10)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA4A-730-U-T2R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14478 lumens
Efficiency: N/A
Efficacy: 119.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

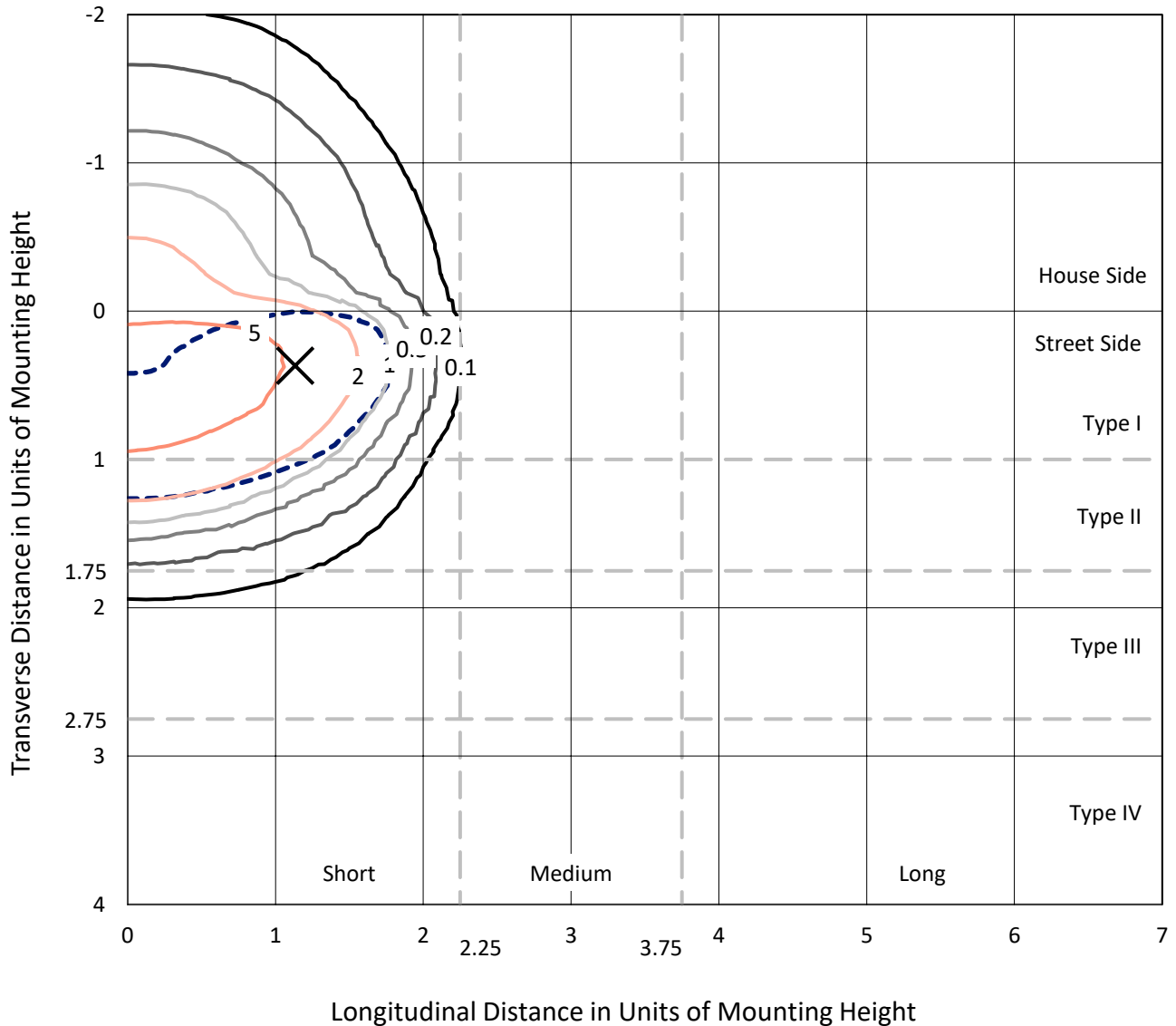
Input Watts (W): 121
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

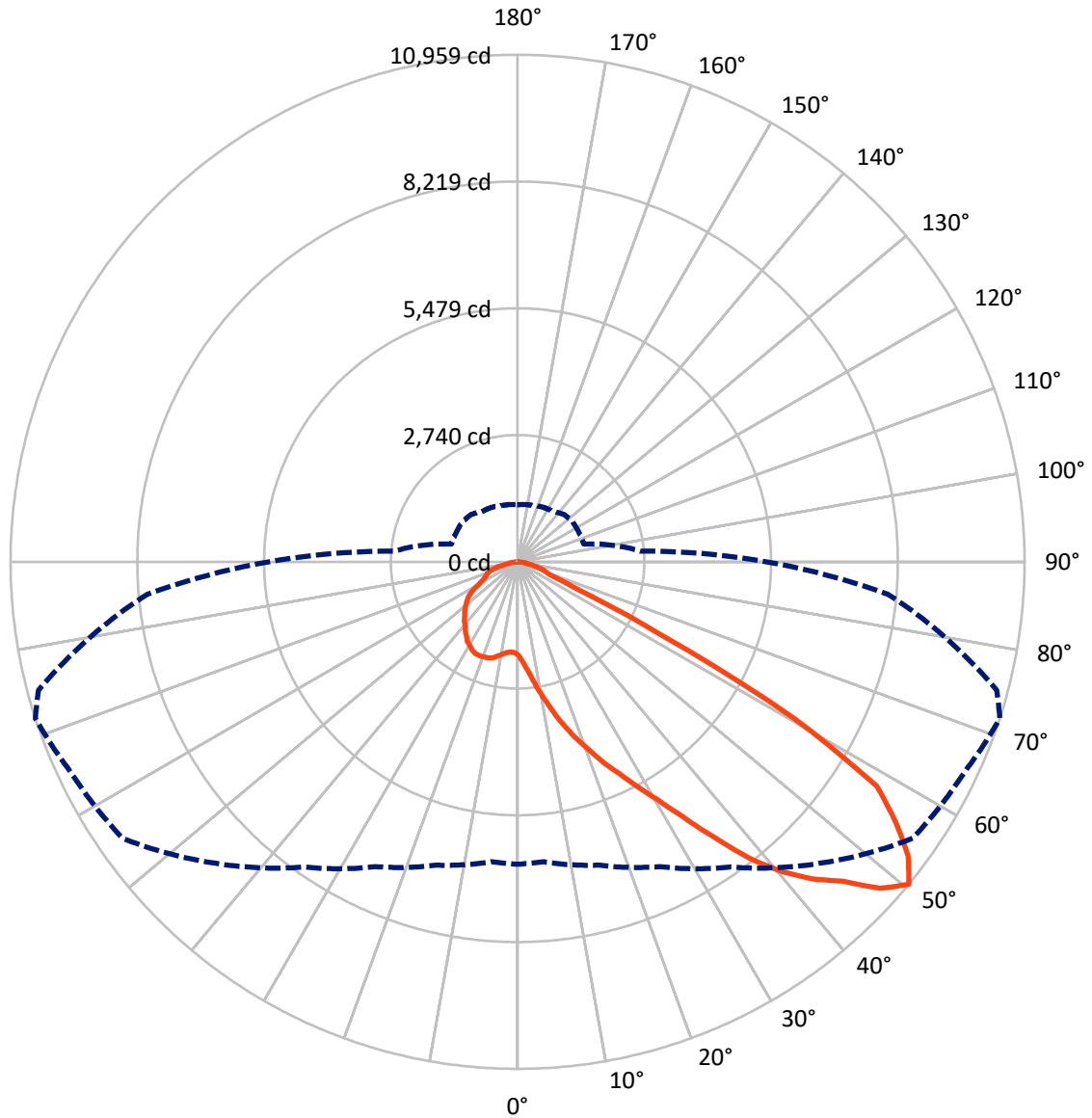
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 72-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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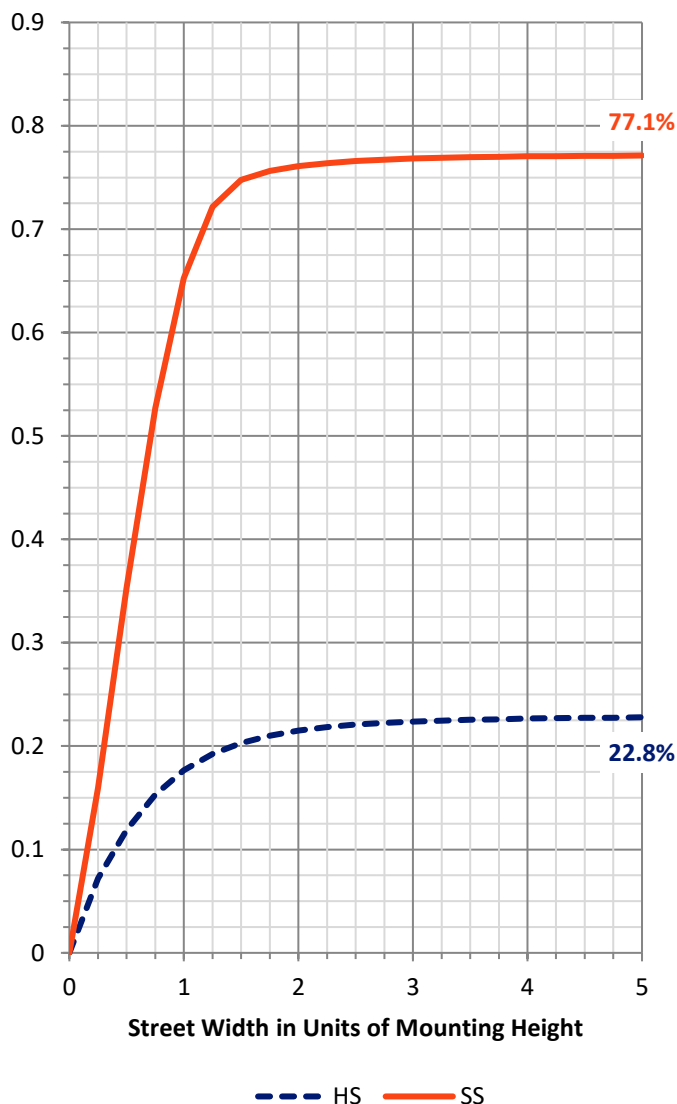
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3317.0	0.0	3317.0
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	11161.0	0.0	11161.0
	% Fixture	77.1	0.0	77.1
Total	Lumens	14478.0	0.0	14478.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	237.1	1.6
10°-20°	886.2	6.1
20°-30°	1718.4	11.9
30°-40°	2846.7	19.7
40°-50°	3983.2	27.5
50°-60°	3360.3	23.2
60°-70°	1024.2	7.1
70°-80°	359.3	2.5
80°-90°	62.5	0.4
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°	14478.0	100.0
0°-180°	14478.0	100.0

Coefficient of Utilization

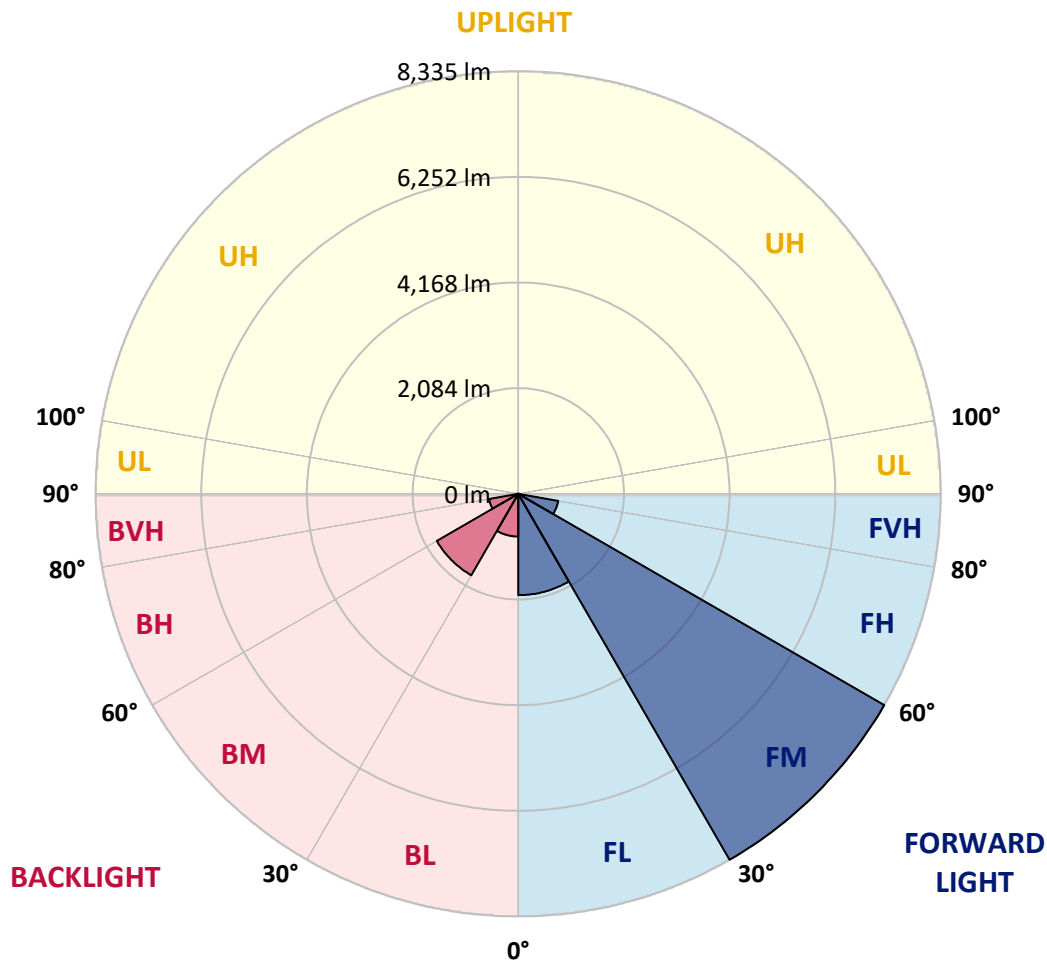


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1998.5	13.8			
FM	(30°-60°)	8335.4	57.6			
FH	(60°-80°)	799.2	5.5			G1/1800
FVH	(80°-90°)	28.0	0.2			G1/100
BL	(0°-30°)	843.2	5.8	B2/1000		
BM	(30°-60°)	1854.9	12.8	B2/2500		
BH	(60°-80°)	584.4	4.0	B2/1000		G2/1000
BVH	(80°-90°)	34.5	0.2			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 II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	2015.5	2015.5	2015.5	2015.5	2015.5	2015.5	2015.5	2015.5	2015.5	2015.5	2015.5
2.5°	2592.3	2576.2	2527.8	2511.7	2454.4	2350.5	2314.6	2208.9	2164.2	2123.0	2074.6
5°	3278.5	3203.2	3197.9	3106.5	2973.9	2896.9	2667.6	2513.5	2372.0	2300.3	2167.7
7.5°	3715.6	3717.4	3717.4	3642.2	3536.5	3341.2	3135.2	2857.5	2644.3	2538.6	2312.9
10°	4131.2	4095.4	4075.7	4068.5	3996.9	3807.0	3586.6	3242.7	2950.6	2827.0	2422.1
12.5°	4425.1	4394.6	4439.4	4416.1	4364.1	4240.5	4032.7	3640.4	3274.9	3108.3	2597.7
15°	4564.8	4586.3	4622.1	4686.6	4663.3	4616.7	4387.4	4048.8	3624.2	3436.1	2753.6
17.5°	4779.8	4720.7	4763.7	4844.3	4908.8	4887.3	4756.5	4344.4	3970.0	3738.9	2963.2
20°	4930.3	4896.2	4917.7	5010.9	5059.3	5181.1	5113.0	4731.4	4301.4	4057.8	3210.4
22.5°	5360.2	5310.1	5240.2	5254.5	5272.4	5358.4	5374.6	5156.0	4686.6	4428.6	3445.1
25°	5890.5	5843.9	5761.5	5677.3	5625.4	5609.3	5664.8	5489.2	5055.7	4788.7	3697.7
27.5°	6474.6	6395.7	6343.8	6170.0	6030.3	6008.8	5981.9	5886.9	5492.8	5204.4	3982.6
30°	7042.5	6979.8	6909.9	6632.2	6487.1	6463.8	6331.2	6358.1	5967.6	5646.9	4305.0
32.5°	7472.4	7477.8	7318.4	7108.8	6972.6	6849.0	6800.6	6877.6	6576.7	6318.7	4665.1
35°	7820.0	7836.1	7683.8	7493.9	7347.0	7433.0	7411.5	7447.4	7304.0	6988.7	5084.3
37.5°	8158.6	8078.0	7914.9	7823.6	7746.5	7888.1	8070.8	8101.3	8128.1	7757.3	5571.6
40°	8214.1	8221.3	8126.3	8190.8	8094.1	8307.3	8731.9	8692.5	8801.7	8477.5	6100.1
42.5°	8135.3	8151.4	8189.0	8280.4	8513.3	8769.5	9400.1	9238.9	9371.4	9083.0	6614.3
45°	8006.3	7940.0	7986.6	8334.2	8737.2	9307.0	10011.0	9885.6	9842.6	9600.8	7227.0
47.5°	7390.0	7458.1	7603.2	8031.4	8636.9	9400.1	10444.6	10415.9	10544.9	10374.7	7784.2
50°	6535.5	6508.6	6788.1	7270.0	8051.1	9217.4	10421.3	10681.0	10958.7	10722.3	8033.2
52.5°	4894.4	5037.8	5277.8	5876.2	6990.5	8221.3	9912.5	10346.0	10571.8	10521.6	7832.5
55°	3094.0	3137.0	3282.1	3993.3	4996.6	6598.2	8497.2	9502.2	9905.3	10093.4	7648.0
57.5°	1503.1	1422.5	1599.8	2171.3	2886.1	4437.6	6553.4	8276.8	9152.9	9493.3	7246.7
60°	784.7	815.1	885.0	1089.2	1492.3	2303.9	4084.7	5516.1	6854.4	7377.5	5492.8
62.5°	650.3	661.1	707.7	809.8	992.5	1325.7	2085.3	2689.1	3495.3	3966.4	3124.4
65°	551.8	557.2	607.3	675.4	791.9	933.4	1073.1	1123.3	1359.8	1395.6	1110.7
67.5°	460.4	465.8	519.5	584.0	659.3	696.9	732.7	729.1	756.0	745.3	743.5
70°	354.7	360.1	415.6	483.7	521.3	499.8	610.9	636.0	646.7	655.7	670.0
72.5°	256.2	266.9	309.9	358.3	338.6	388.8	503.4	541.0	555.4	560.7	578.7
75°	186.3	189.9	200.7	186.3	215.0	270.5	354.7	401.3	419.2	424.6	451.5
77.5°	82.4	84.2	86.0	107.5	137.9	168.4	211.4	249.0	274.1	281.3	288.4
80°	43.0	44.8	55.5	73.5	98.5	123.6	154.1	175.6	191.7	193.5	200.7
82.5°	26.9	28.7	39.4	52.0	69.9	91.4	112.9	130.8	143.3	145.1	146.9
85°	12.5	16.1	23.3	32.2	46.6	59.1	60.9	52.0	55.5	57.3	53.7
87.5°	3.6	5.4	7.2	5.4	7.2	7.2	9.0	10.7	10.7	10.7	12.5
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°	2015.5	2015.5	2015.5	2015.5	2015.5	2015.5	2015.5	2015.5	2015.5	2015.5	2015.5
2.5°	2047.7	2031.6	1968.9	1945.6	1884.7	1895.4	1863.2	1861.4	1854.2	1852.4	1850.6
5°	2097.9	2047.7	1972.5	1915.1	1881.1	1877.5	1854.2	1854.2	1861.4	1866.8	1854.2
7.5°	2180.3	2123.0	1995.8	1942.0	1911.6	1906.2	1890.1	1877.5	1893.6	1888.3	1873.9
10°	2275.2	2174.9	2040.5	1994.0	1943.8	1931.3	1931.3	1936.6	1909.8	1918.7	1904.4
12.5°	2380.9	2246.6	2097.9	2044.1	1985.0	1977.8	1974.3	1934.8	1949.2	1942.0	1906.2
15°	2515.3	2329.0	2171.3	2080.0	2029.8	1997.5	1951.0	1943.8	1934.8	1916.9	1900.8
17.5°	2660.4	2418.6	2205.4	2090.7	2015.5	1992.2	1956.3	1918.7	1891.8	1895.4	1882.9
20°	2784.0	2501.0	2217.9	2101.5	2004.7	1959.9	1904.4	1881.1	1852.4	1850.6	1848.8
22.5°	2930.9	2612.0	2235.8	2072.8	1972.5	1925.9	1888.3	1847.1	1827.4	1802.3	1814.8
25°	3106.5	2655.0	2239.4	2056.7	1949.2	1866.8	1847.1	1802.3	1795.1	1759.3	1766.4
27.5°	3233.7	2678.3	2210.7	2006.5	1895.4	1832.7	1796.9	1764.6	1752.1	1725.2	1718.1
30°	3403.9	2714.2	2149.8	1943.8	1841.7	1771.8	1750.3	1743.1	1707.3	1678.7	1675.1
32.5°	3597.4	2737.4	2110.4	1879.3	1786.1	1732.4	1743.1	1709.1	1664.3	1639.2	1632.1
35°	3751.4	2746.4	2011.9	1805.9	1748.5	1714.5	1701.9	1694.8	1630.3	1607.0	1589.1
37.5°	3986.1	2726.7	1929.5	1753.9	1707.3	1694.8	1684.0	1635.7	1562.2	1528.2	1503.1
40°	4260.2	2721.3	1823.8	1680.4	1667.9	1682.2	1650.0	1574.7	1472.6	1435.0	1417.1
42.5°	4523.6	2758.9	1757.5	1641.0	1624.9	1630.3	1585.5	1472.6	1422.5	1401.0	1372.3
45°	4964.3	2837.8	1648.2	1580.1	1573.0	1569.4	1515.6	1397.4	1368.7	1341.8	1336.5
47.5°	5362.0	2785.8	1578.3	1517.4	1524.6	1504.9	1390.2	1352.6	1320.4	1293.5	1284.5
50°	5385.3	2662.2	1479.8	1469.0	1470.8	1436.8	1327.5	1302.4	1261.2	1243.3	1230.8
52.5°	5263.5	2459.8	1388.4	1392.0	1397.4	1341.8	1250.5	1232.6	1198.5	1173.4	1166.3
55°	4921.3	2144.5	1298.9	1313.2	1327.5	1221.8	1193.2	1148.4	1121.5	1085.7	1087.5
57.5°	4335.5	1727.0	1173.4	1196.7	1227.2	1110.7	1089.2	1033.7	994.3	965.6	962.0
60°	2905.8	1229.0	985.3	994.3	1062.4	1015.8	1014.0	958.5	904.7	879.6	865.3
62.5°	1714.5	938.8	851.0	842.0	840.2	867.1	911.9	892.2	822.3	773.9	788.3
65°	897.6	811.6	791.9	761.4	743.5	736.3	770.4	779.3	732.7	680.8	677.2
67.5°	754.2	754.2	738.1	727.4	702.3	671.8	650.3	621.7	614.5	600.2	582.2
70°	686.2	704.1	698.7	673.6	652.1	618.1	562.5	516.0	471.2	455.0	465.8
72.5°	598.4	616.3	616.3	603.7	575.1	523.1	469.4	415.6	378.0	349.3	345.8
75°	460.4	469.4	490.9	476.5	438.9	406.7	351.1	295.6	259.8	232.9	227.5
77.5°	293.8	308.1	308.1	306.4	279.5	249.0	213.2	173.8	146.9	127.2	121.8
80°	195.3	204.2	211.4	204.2	186.3	163.0	136.2	109.3	89.6	73.5	69.9
82.5°	143.3	154.1	159.4	152.3	134.4	116.4	96.7	77.0	57.3	44.8	41.2
85°	55.5	57.3	64.5	77.0	75.2	73.5	59.1	43.0	32.2	23.3	21.5
87.5°	14.3	12.5	14.3	14.3	12.5	10.7	10.7	10.7	10.7	5.4	7.2
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)