

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: P528190

Luminaire Tested: **GALN-SA3B-730-U-T2R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P528190
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-SA3B-730-U-T2R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3000K, 800mA 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: 13594 lumens
Efficiency: N/A
Efficacy: 112.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

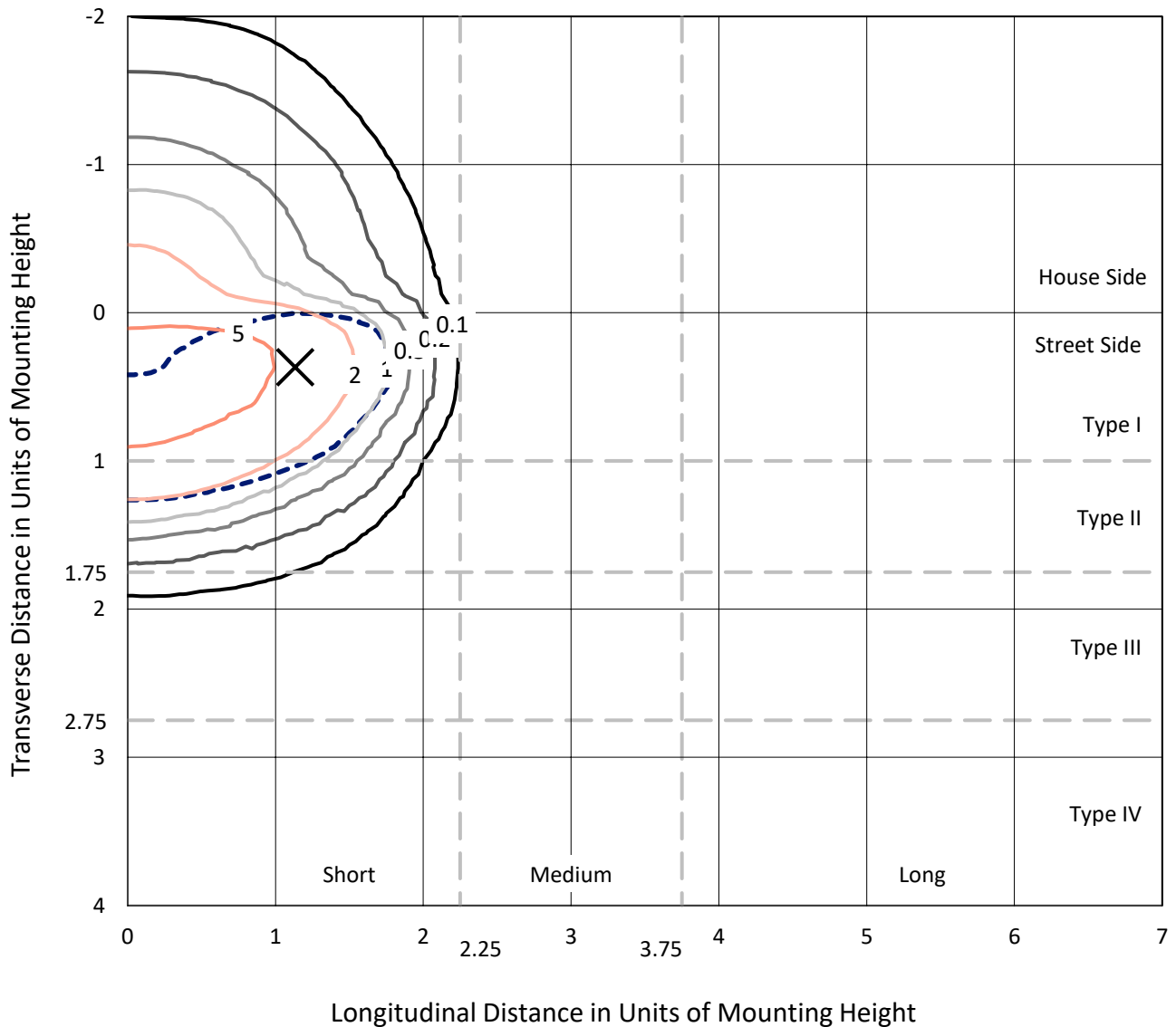
Input Watts (W): 121
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

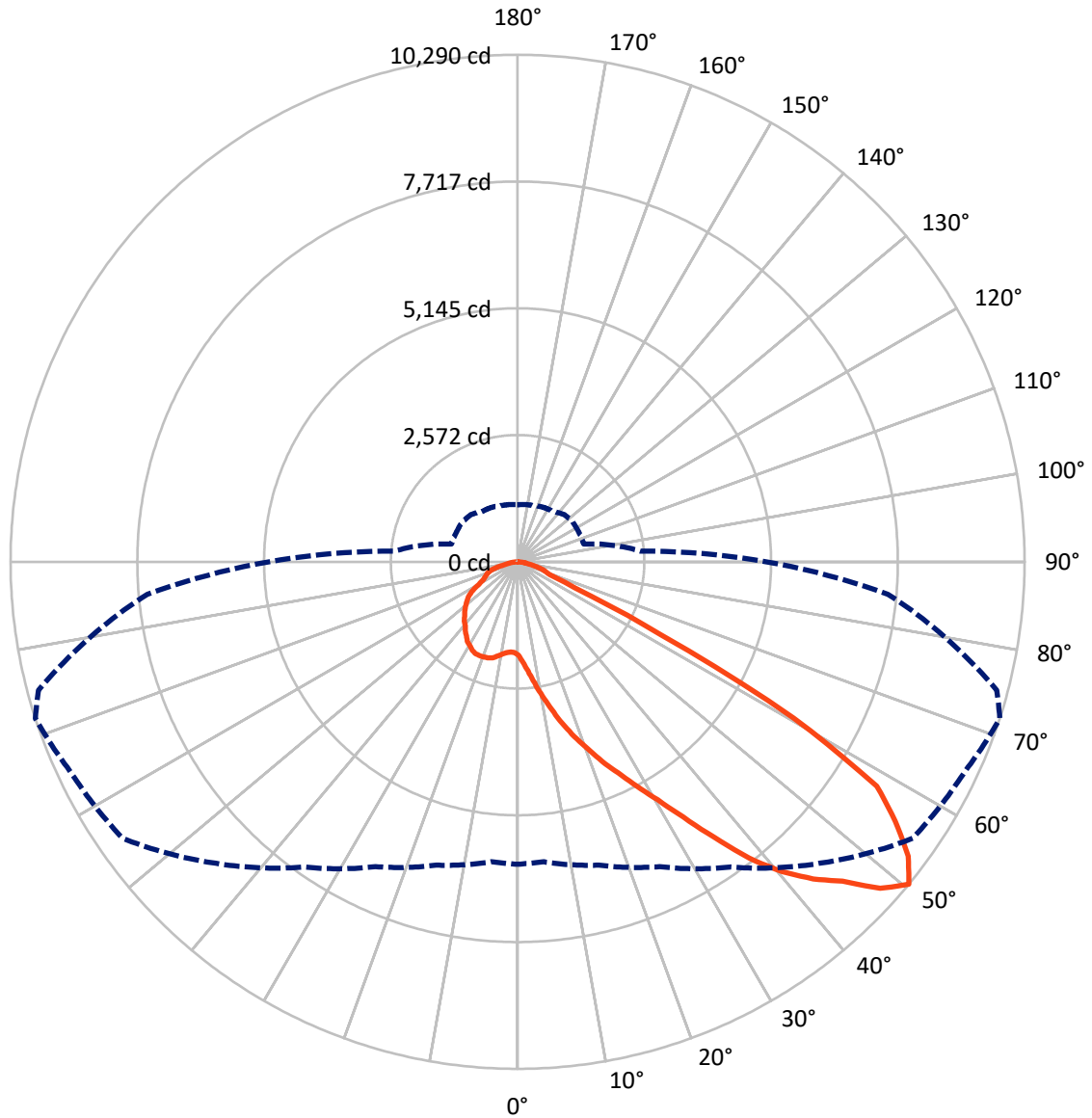
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.8 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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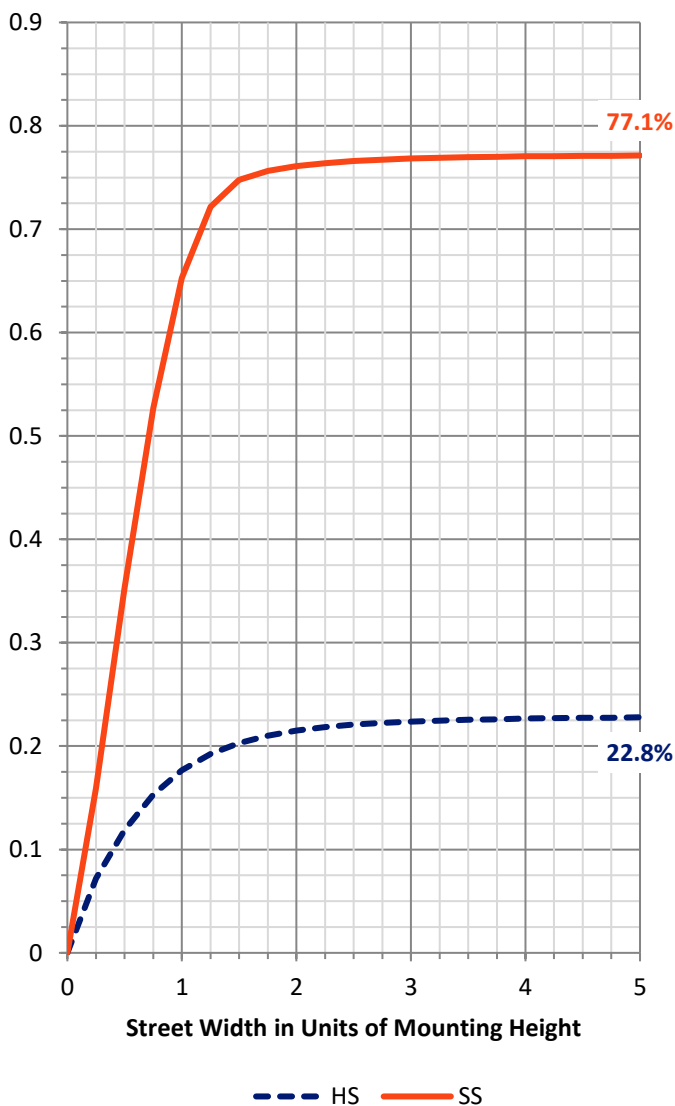
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3114.5	0.0	3114.5
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	10479.5	0.0	10479.5
	% Fixture	77.1	0.0	77.1
Total	Lumens	13594.0	0.0	13594.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	222.6	1.6
10°-20°	832.1	6.1
20°-30°	1613.4	11.9
30°-40°	2672.9	19.7
40°-50°	3740.0	27.5
50°-60°	3155.2	23.2
60°-70°	961.7	7.1
70°-80°	337.4	2.5
80°-90°	58.7	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°	13594.0	100.0
0°-180°	13594.0	100.0

Coefficient of Utilization



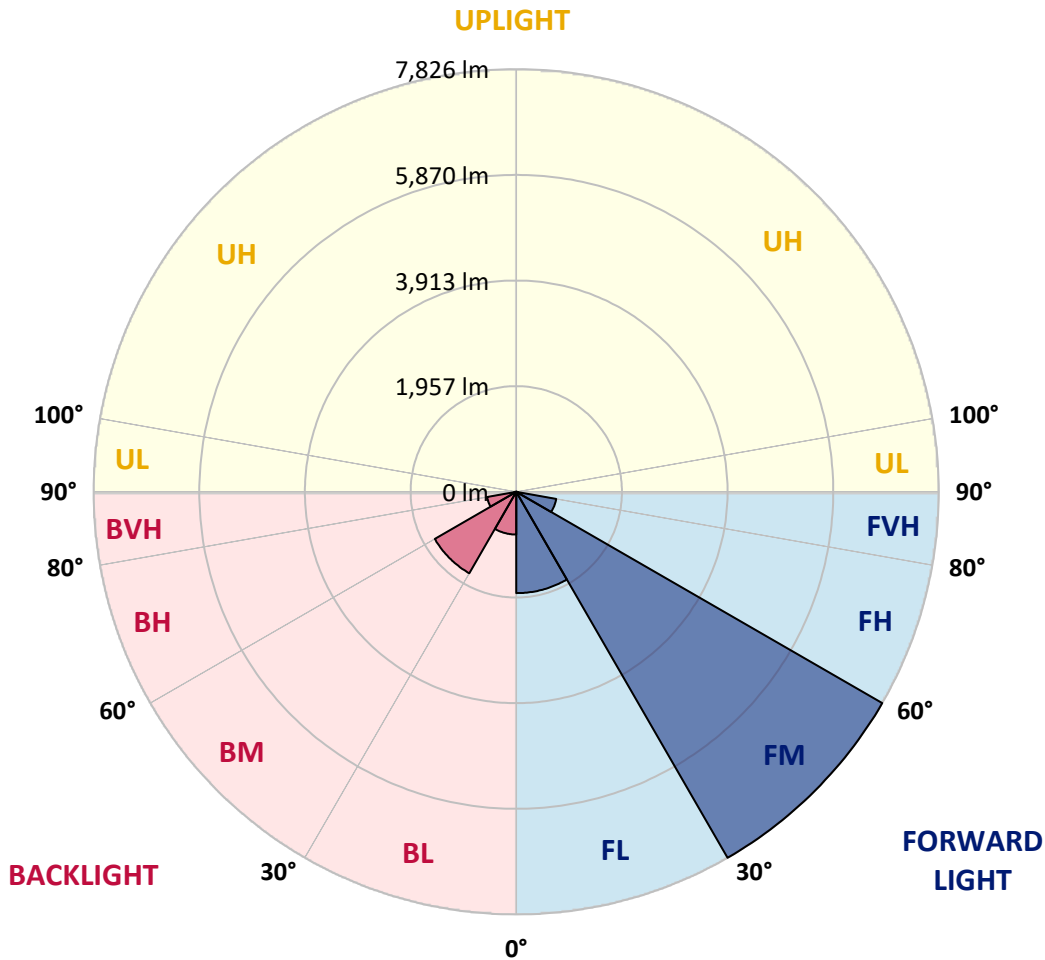
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1876.5	13.8			
FM (30°-60°)	7826.4	57.6			
FH (60°-80°)	750.4	5.5			G1/1800
FVH (80°-90°)	26.3	0.2			G1/100
BL (0°-30°)	791.7	5.8	B2/1000		
BM (30°-60°)	1741.7	12.8	B2/2500		
BH (60°-80°)	548.7	4.0	B2/1000		G2/1000
BVH (80°-90°)	32.4	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°	1892.4	1892.4	1892.4	1892.4	1892.4	1892.4	1892.4	1892.4	1892.4	1892.4	1892.4
2.5°	2434.0	2418.9	2373.5	2358.4	2304.5	2207.0	2173.3	2074.1	2032.0	1993.3	1947.9
5°	3078.3	3007.7	3002.6	2916.8	2792.3	2720.0	2504.7	2360.0	2227.1	2159.9	2035.4
7.5°	3488.7	3490.4	3490.4	3419.8	3320.5	3137.2	2943.7	2683.0	2482.8	2383.6	2171.6
10°	3879.0	3845.4	3826.9	3820.1	3752.8	3574.5	3367.6	3044.7	2770.5	2654.4	2274.2
12.5°	4154.9	4126.3	4168.3	4146.5	4097.7	3981.6	3786.5	3418.1	3074.9	2918.5	2439.1
15°	4286.1	4306.3	4339.9	4400.5	4378.6	4334.9	4119.5	3801.6	3403.0	3226.3	2585.4
17.5°	4487.9	4432.4	4472.8	4548.5	4609.0	4588.9	4466.1	4079.2	3727.6	3510.6	2782.2
20°	4629.2	4597.3	4617.5	4704.9	4750.3	4864.7	4800.8	4442.5	4038.8	3810.0	3014.4
22.5°	5032.9	4985.8	4920.2	4933.7	4950.5	5031.3	5046.4	4841.2	4400.5	4158.2	3234.7
25°	5530.9	5487.1	5409.7	5330.7	5281.9	5266.8	5318.9	5154.1	4747.0	4496.3	3471.9
27.5°	6079.2	6005.2	5956.4	5793.3	5662.1	5641.9	5616.6	5527.5	5157.4	4886.6	3739.4
30°	6612.5	6553.6	6488.0	6227.3	6091.0	6069.1	5944.7	5969.9	5603.2	5302.1	4042.2
32.5°	7016.2	7021.2	6871.5	6674.7	6546.9	6430.8	6385.4	6457.7	6175.1	5932.9	4380.3
35°	7342.5	7357.7	7214.7	7036.4	6898.4	6979.2	6959.0	6992.6	6858.1	6562.0	4773.9
37.5°	7660.4	7584.7	7431.7	7345.9	7273.5	7406.4	7578.0	7606.6	7631.8	7283.6	5231.4
40°	7712.6	7719.3	7630.2	7690.7	7599.9	7800.1	8198.7	8161.7	8264.3	7959.9	5727.7
42.5°	7638.6	7653.7	7689.0	7774.8	7993.5	8234.0	8826.2	8674.8	8799.2	8528.4	6210.4
45°	7517.5	7455.2	7499.0	7825.3	8203.8	8738.7	9399.8	9282.0	9241.6	9014.6	6785.7
47.5°	6938.8	7002.7	7139.0	7541.0	8109.6	8826.2	9806.8	9779.9	9901.0	9741.2	7308.9
50°	6136.4	6111.2	6373.6	6826.1	7559.5	8654.6	9785.0	10028.9	10289.6	10067.6	7542.7
52.5°	4595.6	4730.2	4955.6	5517.4	6563.7	7719.3	9307.2	9714.3	9926.3	9879.2	7354.3
55°	2905.0	2945.4	3081.7	3749.5	4691.5	6195.3	7978.4	8922.0	9300.5	9477.1	7181.0
57.5°	1411.3	1335.6	1502.1	2038.7	2709.9	4166.6	6153.2	7771.5	8594.0	8913.6	6804.2
60°	736.8	765.4	831.0	1022.7	1401.2	2163.2	3835.3	5179.3	6435.8	6927.0	5157.4
62.5°	610.6	620.7	664.4	760.3	931.9	1244.8	1958.0	2524.9	3281.8	3724.2	2933.6
65°	518.1	523.1	570.2	634.2	743.5	876.4	1007.6	1054.7	1276.7	1310.4	1042.9
67.5°	432.3	437.4	487.8	548.4	619.0	654.4	688.0	684.6	709.9	699.8	698.1
70°	333.1	338.1	390.3	454.2	489.5	469.3	573.6	597.2	607.3	615.7	629.1
72.5°	240.5	250.6	291.0	336.4	317.9	365.0	472.7	508.0	521.5	526.5	543.3
75°	174.9	178.3	188.4	174.9	201.9	254.0	333.1	376.8	393.6	398.7	423.9
77.5°	77.4	79.1	80.7	100.9	129.5	158.1	198.5	233.8	257.4	264.1	270.8
80°	40.4	42.1	52.1	69.0	92.5	116.1	144.7	164.8	180.0	181.7	188.4
82.5°	25.2	26.9	37.0	48.8	65.6	85.8	106.0	122.8	134.6	136.3	137.9
85°	11.8	15.1	21.9	30.3	43.7	55.5	57.2	48.8	52.1	53.8	50.5
87.5°	3.4	5.0	6.7	5.0	6.7	6.7	8.4	10.1	10.1	10.1	11.8
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°	1892.4	1892.4	1892.4	1892.4	1892.4	1892.4	1892.4	1892.4	1892.4	1892.4	1892.4
2.5°	1922.7	1907.5	1848.7	1826.8	1769.6	1779.7	1749.4	1747.7	1741.0	1739.3	1737.6
5°	1969.8	1922.7	1852.0	1798.2	1766.2	1762.9	1741.0	1741.0	1747.7	1752.8	1741.0
7.5°	2047.2	1993.3	1873.9	1823.4	1794.8	1789.8	1774.7	1762.9	1778.0	1773.0	1759.5
10°	2136.3	2042.1	1916.0	1872.2	1825.1	1813.3	1813.3	1818.4	1793.2	1801.6	1788.1
12.5°	2235.6	2109.4	1969.8	1919.3	1863.8	1857.1	1853.7	1816.7	1830.2	1823.4	1789.8
15°	2361.7	2186.8	2038.7	1953.0	1905.9	1875.6	1831.8	1825.1	1816.7	1799.9	1784.7
17.5°	2498.0	2270.9	2070.7	1963.1	1892.4	1870.5	1836.9	1801.6	1776.3	1779.7	1767.9
20°	2614.0	2348.3	2082.5	1973.1	1882.3	1840.3	1788.1	1766.2	1739.3	1737.6	1736.0
22.5°	2752.0	2452.6	2099.3	1946.2	1852.0	1808.3	1773.0	1734.3	1715.8	1692.2	1704.0
25°	2916.8	2492.9	2102.7	1931.1	1830.2	1752.8	1734.3	1692.2	1685.5	1651.9	1658.6
27.5°	3036.3	2514.8	2075.8	1884.0	1779.7	1720.8	1687.2	1656.9	1645.1	1619.9	1613.2
30°	3196.1	2548.4	2018.6	1825.1	1729.2	1663.6	1643.4	1636.7	1603.1	1576.2	1572.8
32.5°	3377.7	2570.3	1981.6	1764.6	1677.1	1626.6	1636.7	1604.8	1562.7	1539.2	1532.4
35°	3522.4	2578.7	1889.0	1695.6	1641.8	1609.8	1598.0	1591.3	1530.7	1508.9	1492.1
37.5°	3742.7	2560.2	1811.7	1646.8	1603.1	1591.3	1581.2	1535.8	1466.8	1434.9	1411.3
40°	4000.1	2555.2	1712.4	1577.8	1566.1	1579.5	1549.2	1478.6	1382.7	1347.4	1330.6
42.5°	4247.4	2590.5	1650.2	1540.8	1525.7	1530.7	1488.7	1382.7	1335.6	1315.4	1288.5
45°	4661.2	2664.5	1547.6	1483.6	1476.9	1473.5	1423.1	1312.1	1285.2	1259.9	1254.9
47.5°	5034.6	2615.7	1482.0	1424.8	1431.5	1413.0	1305.3	1270.0	1239.7	1214.5	1206.1
50°	5056.5	2499.7	1389.4	1379.3	1381.0	1349.1	1246.5	1222.9	1184.2	1167.4	1155.6
52.5°	4942.1	2309.6	1303.7	1307.0	1312.1	1259.9	1174.1	1157.3	1125.3	1101.8	1095.1
55°	4620.8	2013.5	1219.5	1233.0	1246.5	1147.2	1120.3	1078.2	1053.0	1019.4	1021.1
57.5°	4070.8	1621.6	1101.8	1123.7	1152.3	1042.9	1022.7	970.6	933.6	906.7	903.3
60°	2728.4	1153.9	925.2	933.6	997.5	953.8	952.1	899.9	849.5	825.9	812.5
62.5°	1609.8	881.4	799.0	790.6	788.9	814.2	856.2	837.7	772.1	726.7	740.1
65°	842.7	762.0	743.5	714.9	698.1	691.4	723.3	731.7	688.0	639.2	635.8
67.5°	708.2	708.2	693.0	682.9	659.4	630.8	610.6	583.7	577.0	563.5	546.7
70°	644.3	661.1	656.0	632.5	612.3	580.3	528.2	484.5	442.4	427.3	437.4
72.5°	561.8	578.7	578.7	566.9	540.0	491.2	440.7	390.3	354.9	328.0	324.7
75°	432.3	440.7	460.9	447.4	412.1	381.8	329.7	277.6	243.9	218.7	213.6
77.5°	275.9	289.3	289.3	287.6	262.4	233.8	200.2	163.2	137.9	119.4	114.4
80°	183.4	191.8	198.5	191.8	174.9	153.1	127.8	102.6	84.1	69.0	65.6
82.5°	134.6	144.7	149.7	143.0	126.2	109.3	90.8	72.3	53.8	42.1	38.7
85°	52.1	53.8	60.6	72.3	70.6	69.0	55.5	40.4	30.3	21.9	20.2
87.5°	13.5	11.8	13.5	13.5	11.8	10.1	10.1	10.1	10.1	5.0	6.7
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)