

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: P194052

Luminaire Tested: **GLEON-AF-04-LED-E1-T4FT-8030-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P194052
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24295)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-04-LED-E1-T4FT-8030-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 3000K, 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: 12987 lumens
Efficiency: N/A
Efficacy: 100.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B2 - U0 - G3

Input Watts (W): 129
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: 25 FT

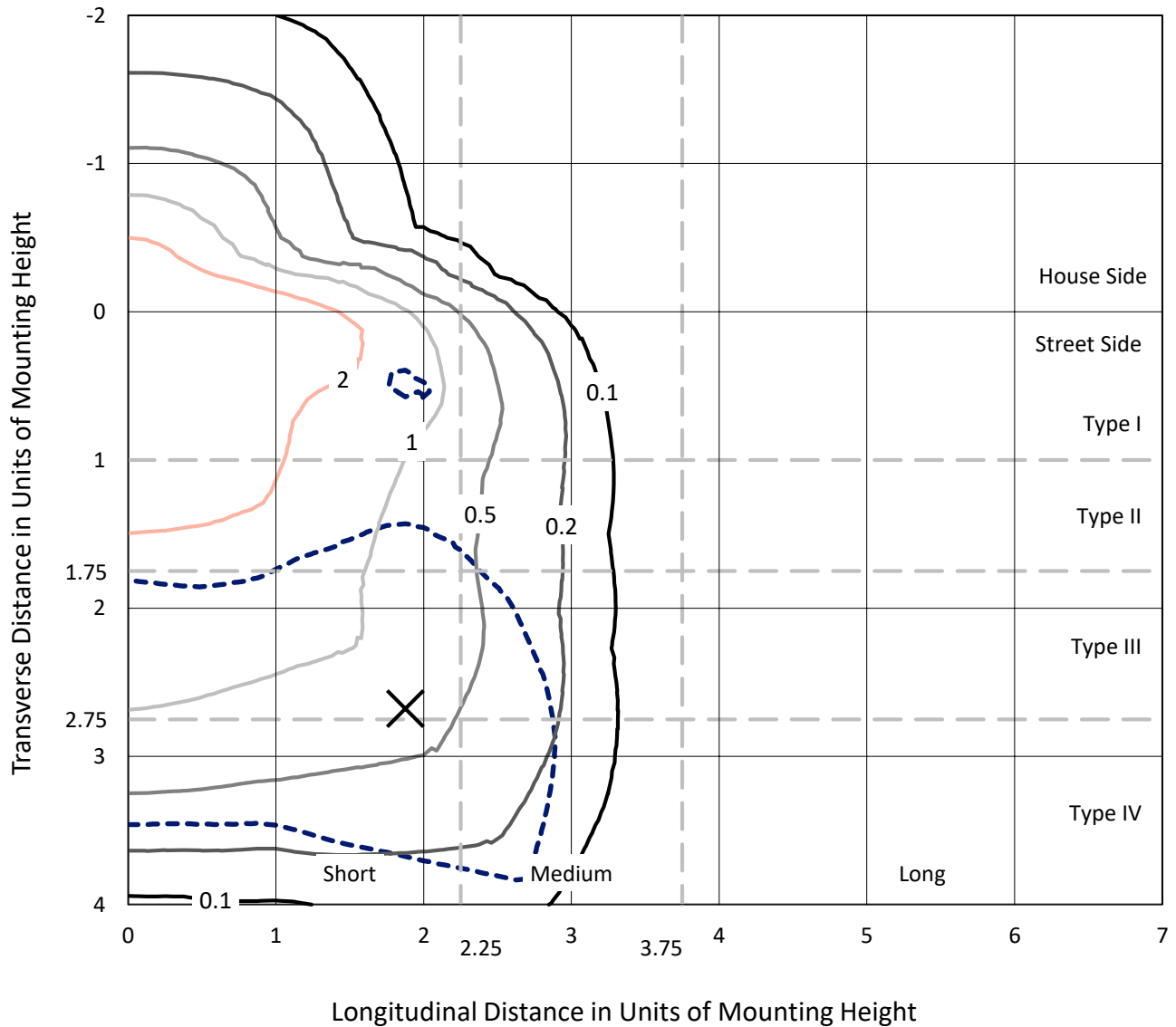


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

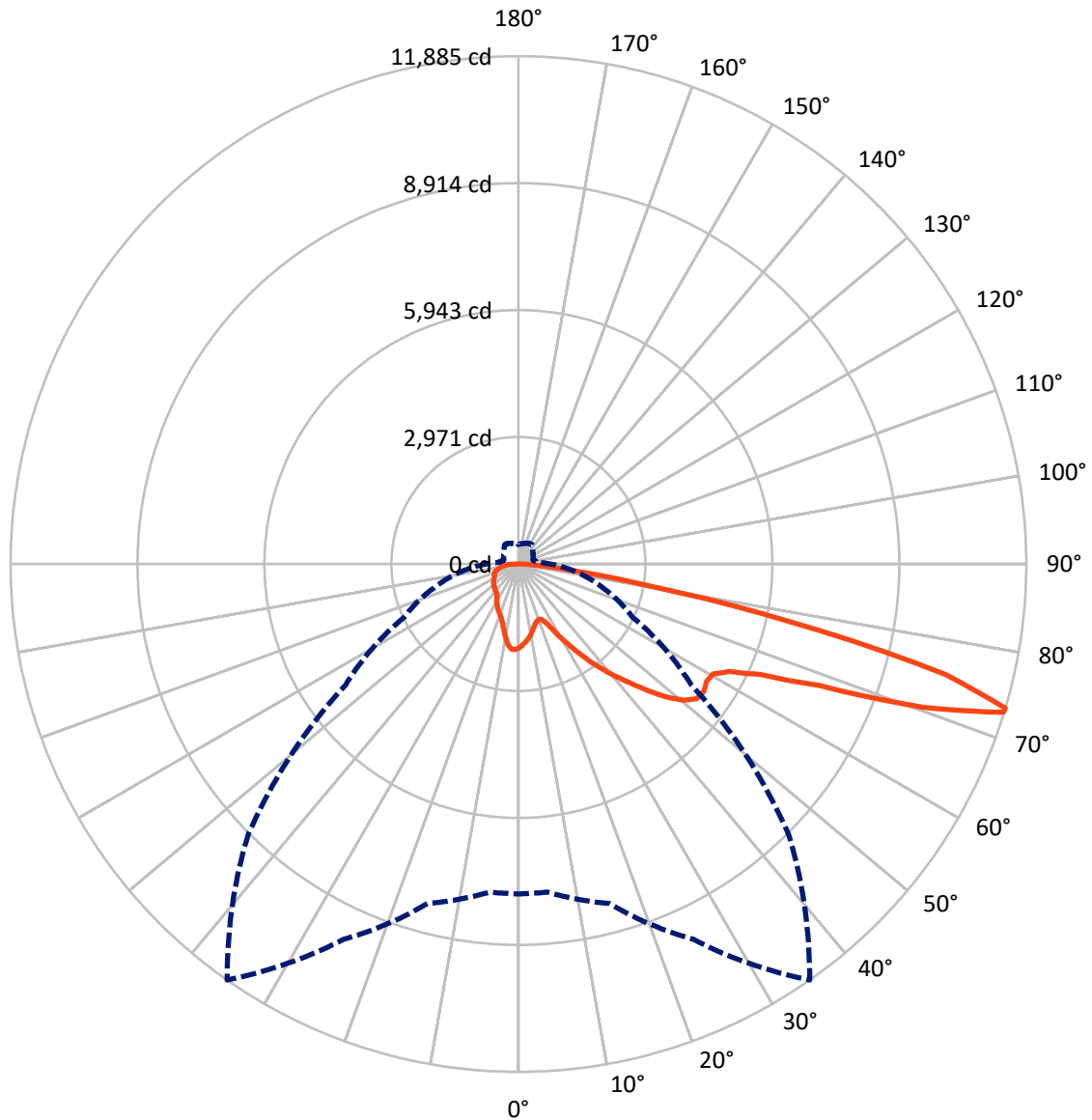


Based on 20 foot mounting height. Maximum calculated value = 4.9 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2477.0	0.0	2477.0
	% Fixture	19.1	0.0	19.1
Street Side	Lumens	10510.0	0.0	10510.0
	% Fixture	80.9	0.0	80.9
Total	Lumens	12987.0	0.0	12987.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	177.4	1.4
10°-20°	442.9	3.4
20°-30°	716.0	5.5
30°-40°	1200.6	9.2
40°-50°	1850.7	14.3
50°-60°	2482.9	19.1
60°-70°	3307.7	25.5
70°-80°	2522.8	19.4
80°-90°	286.0	2.2
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°	12987.0	100.0
0°-180°	12987.0	100.0



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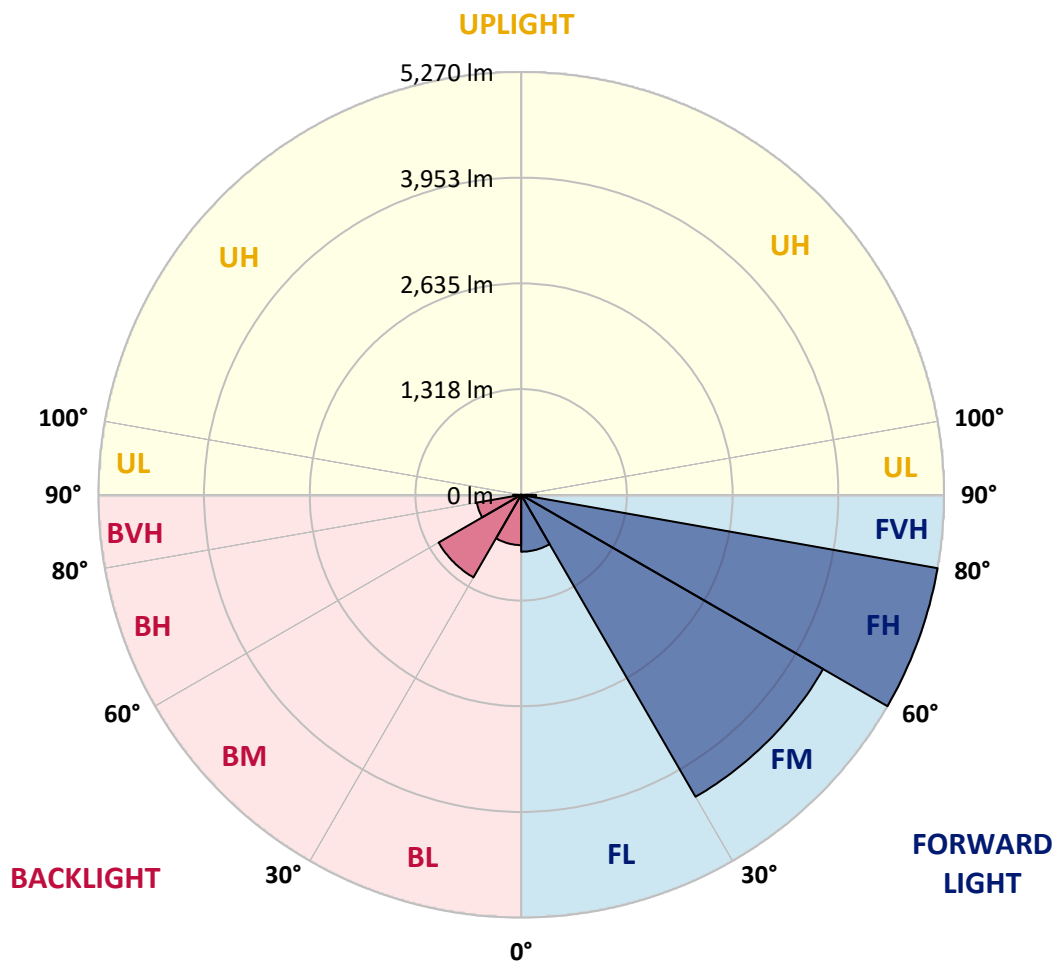
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	709.5	5.5			
FM	(30°-60°)	4345.5	33.5			
FH	(60°-80°)	5270.1	40.6			G3/7500
FVH	(80°-90°)	184.8	1.4			G2/225
BL	(0°-30°)	626.8	4.8	B2/1000		
BM	(30°-60°)	1188.7	9.2	B2/2500		
BH	(60°-80°)	560.4	4.3	B2/1000		G2/1000
BVH	(80°-90°)	101.1	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°	35°	45°	55°	65°	75°	85°	90°
0°	1960.1	1960.1	1960.1	1960.1	1960.1	1960.1	1960.1	1960.1	1960.1	1960.1	1960.1
2.5°	1882.8	1886.6	1882.2	1887.8	1897.2	1907.1	1914.0	1924.0	1935.2	1950.8	1954.5
5°	1794.3	1799.9	1799.9	1809.8	1827.9	1844.1	1859.1	1875.3	1899.0	1925.8	1936.4
7.5°	1697.0	1700.1	1705.7	1720.7	1746.9	1769.9	1791.1	1817.3	1849.8	1885.3	1904.0
10°	1579.7	1584.1	1592.8	1614.0	1649.6	1681.4	1711.9	1748.1	1789.3	1833.5	1857.2
12.5°	1496.8	1495.5	1499.3	1514.9	1546.0	1584.7	1629.0	1675.1	1725.6	1777.4	1806.1
15°	1468.7	1461.8	1447.5	1443.8	1460.6	1499.3	1550.4	1607.2	1667.6	1730.0	1765.6
17.5°	1486.2	1474.3	1435.0	1406.3	1403.8	1433.2	1487.4	1551.0	1620.9	1697.0	1741.2
20°	1595.9	1567.9	1471.2	1404.5	1381.4	1395.7	1443.1	1510.5	1592.8	1693.8	1750.6
22.5°	1858.5	1817.3	1612.1	1488.0	1410.1	1392.6	1428.2	1499.9	1595.9	1732.5	1804.9
25°	2240.8	2182.2	1854.1	1696.3	1535.4	1442.5	1450.6	1524.2	1640.2	1822.3	1909.6
27.5°	2542.6	2504.6	2170.3	1990.1	1763.7	1577.2	1523.6	1585.3	1730.6	1969.5	2058.7
30°	2722.2	2699.2	2508.3	2323.1	2054.9	1791.8	1663.3	1700.1	1872.2	2173.4	2247.0
32.5°	2930.5	2916.8	2823.3	2653.0	2369.3	2073.6	1884.7	1871.6	2061.8	2418.5	2452.2
35°	3146.3	3142.0	3087.1	2964.8	2706.7	2445.3	2178.4	2089.9	2268.2	2673.0	2651.8
37.5°	3347.1	3339.7	3307.9	3236.8	3059.6	2844.5	2477.8	2313.8	2490.9	2916.2	2822.0
40°	3717.0	3658.3	3549.2	3495.6	3416.4	3180.6	2715.4	2522.7	2721.6	3148.2	2969.2
42.5°	4167.9	4072.5	3869.1	3795.6	3784.3	3445.7	2877.5	2725.4	2954.2	3378.3	3113.9
45°	4522.7	4432.9	4257.7	4164.8	4205.9	3685.8	3040.3	2941.8	3193.7	3619.7	3263.0
47.5°	4901.3	4760.3	4528.3	4556.4	4646.2	3912.8	3206.2	3174.4	3456.3	3889.7	3448.2
50°	4915.0	4807.1	4705.5	4873.2	5012.9	4121.7	3413.9	3418.2	3777.5	4229.6	3694.5
52.5°	4630.0	4606.9	4768.5	5032.3	5233.7	4287.0	3650.2	3670.2	4188.5	4620.0	3965.2
55°	4530.2	4504.0	4690.5	4976.8	5263.6	4423.6	3906.6	3942.7	4685.5	5031.6	4229.0
57.5°	4773.4	4715.4	4727.9	4950.6	5190.7	4573.2	4186.0	4258.9	5225.6	5391.5	4398.6
60°	5453.2	5329.1	5093.4	5087.8	5230.0	4797.8	4509.0	4598.2	5786.9	5563.6	4332.5
62.5°	6406.8	6282.7	5841.1	5553.6	5532.4	5168.2	4905.7	4929.4	6111.2	5330.4	3929.0
65°	7438.9	7327.9	6834.6	6428.6	6232.8	5781.9	5366.5	5077.2	6005.2	4688.6	3223.0
67.5°	8691.9	8572.7	8148.7	7773.8	7585.5	6772.2	5690.2	4935.6	5332.2	3632.2	2316.9
70°	9568.1	9446.5	9279.3	9583.1	10043.9	8201.0	5732.0	4360.0	3982.6	2414.2	1394.5
72.5°	8424.9	8368.2	8673.1	9952.3	11871.9	9067.9	5181.3	3174.4	2313.1	1281.6	807.0
73°	7719.0	7706.5	8226.6	9693.4	11885.0	8934.5	4940.0	2950.5	1983.8	1133.8	737.8
75°	3485.6	3586.0	4726.0	7404.0	10325.8	7362.2	3476.9	1692.6	1120.7	783.3	556.9
77.5°	837.6	872.5	1478.7	3516.2	6520.9	4387.4	1575.3	836.9	716.6	553.2	406.6
80°	356.7	368.6	569.4	1299.1	3070.2	1766.8	725.9	560.7	495.8	386.0	285.0
82.5°	198.3	210.8	323.1	589.4	1239.2	602.4	442.8	390.4	326.2	232.6	185.2
85°	112.3	119.1	189.0	329.3	525.1	242.0	265.1	259.4	184.0	119.7	91.1
87.5°	53.0	57.4	91.1	152.8	205.8	94.8	134.7	148.4	115.4	73.0	47.4
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1960.1	1960.1	1960.1	1960.1	1960.1	1960.1	1960.1	1960.1	1960.1	1960.1
2.5°	1958.9	1970.1	1983.2	1990.1	1996.3	2003.8	2011.3	2011.3	2012.5	2013.2
5°	1945.2	1968.2	1988.8	1997.6	1999.4	1999.4	1997.6	1987.6	1978.9	1982.6
7.5°	1916.5	1950.2	1967.6	1964.5	1940.8	1913.4	1890.3	1862.2	1847.9	1845.4
10°	1875.3	1914.0	1917.1	1885.9	1827.3	1768.7	1720.0	1672.6	1650.2	1644.6
12.5°	1829.8	1865.3	1845.4	1781.2	1687.0	1601.5	1539.8	1491.8	1470.6	1465.0
15°	1793.0	1817.3	1766.8	1665.8	1547.3	1456.9	1405.7	1370.2	1355.2	1350.8
17.5°	1773.7	1778.7	1686.4	1549.8	1423.8	1348.3	1316.5	1299.7	1294.1	1291.0
20°	1783.0	1748.1	1609.6	1441.9	1322.8	1269.8	1262.3	1257.9	1256.7	1254.8
22.5°	1829.8	1738.7	1539.2	1339.6	1234.2	1211.1	1217.4	1216.7	1215.5	1214.3
25°	1913.4	1746.9	1470.6	1242.3	1160.0	1155.0	1166.2	1166.2	1161.2	1161.2
27.5°	2023.8	1763.7	1393.9	1150.0	1092.6	1093.3	1102.0	1099.5	1093.9	1090.1
30°	2158.5	1774.3	1304.1	1067.1	1029.7	1027.2	1029.7	1019.0	1002.2	1001.0
32.5°	2296.3	1761.2	1199.9	993.5	962.9	957.3	955.4	940.5	921.1	915.5
35°	2421.0	1713.2	1093.9	934.9	899.3	886.8	895.6	890.6	873.1	868.7
37.5°	2512.1	1624.0	998.5	883.1	853.8	850.7	856.3	858.1	837.6	833.2
40°	2573.2	1503.0	916.8	839.4	845.0	833.2	814.5	801.4	795.2	793.3
42.5°	2622.5	1377.0	848.2	818.9	846.9	812.6	772.1	750.9	762.1	767.1
45°	2679.2	1254.2	790.8	793.3	837.6	788.9	742.8	722.2	726.6	727.8
47.5°	2757.2	1104.5	729.1	752.1	806.4	772.7	724.7	695.4	674.8	665.4
50°	2865.1	927.4	664.8	706.0	775.8	760.9	696.6	665.4	627.4	618.7
52.5°	2939.9	762.1	611.8	667.3	748.4	737.2	674.2	633.6	593.7	586.2
55°	2899.4	633.0	565.7	624.3	712.2	707.8	655.5	601.2	570.0	563.8
57.5°	2696.7	551.3	530.1	583.7	667.9	682.9	630.5	573.8	551.3	546.9
60°	2310.0	500.2	507.7	556.3	631.8	658.0	605.6	558.8	543.8	540.7
62.5°	1792.4	465.9	490.8	536.3	603.7	640.5	591.8	556.9	551.3	547.6
65°	1284.1	438.4	472.7	516.4	578.1	624.3	586.9	554.4	555.7	552.6
67.5°	872.5	414.1	450.9	493.9	553.2	609.9	580.0	545.7	561.3	557.5
70°	610.6	390.4	425.3	465.2	522.0	590.0	567.5	532.6	531.4	516.4
72.5°	476.5	359.2	390.4	425.3	482.1	561.9	542.6	503.3	482.7	467.1
73°	454.6	351.7	381.7	416.6	473.4	555.1	535.7	495.2	472.1	457.8
75°	376.1	319.3	346.8	377.9	435.9	522.6	502.0	458.4	429.1	420.3
77.5°	295.6	273.2	299.4	327.4	384.2	475.2	452.1	410.4	394.1	386.7
80°	218.9	226.4	249.5	274.4	333.0	424.7	404.1	362.3	434.7	416.6
82.5°	154.0	171.5	192.7	215.2	279.4	375.4	350.5	307.5	318.1	264.4
85°	91.1	112.3	132.2	151.5	201.4	311.2	289.4	245.1	200.8	191.5
87.5°	53.0	62.4	68.0	87.9	138.5	234.5	203.9	181.5	104.2	70.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)