

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: P269195

Luminaire Tested: **GLEON-AF-03-LED-E1-T4FT-7027-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269195
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-03-LED-E1-T4FT-7027-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 2700K, 800mA 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: 12831.9 lumens
Efficiency: N/A
Efficacy: 103.5 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): 124
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

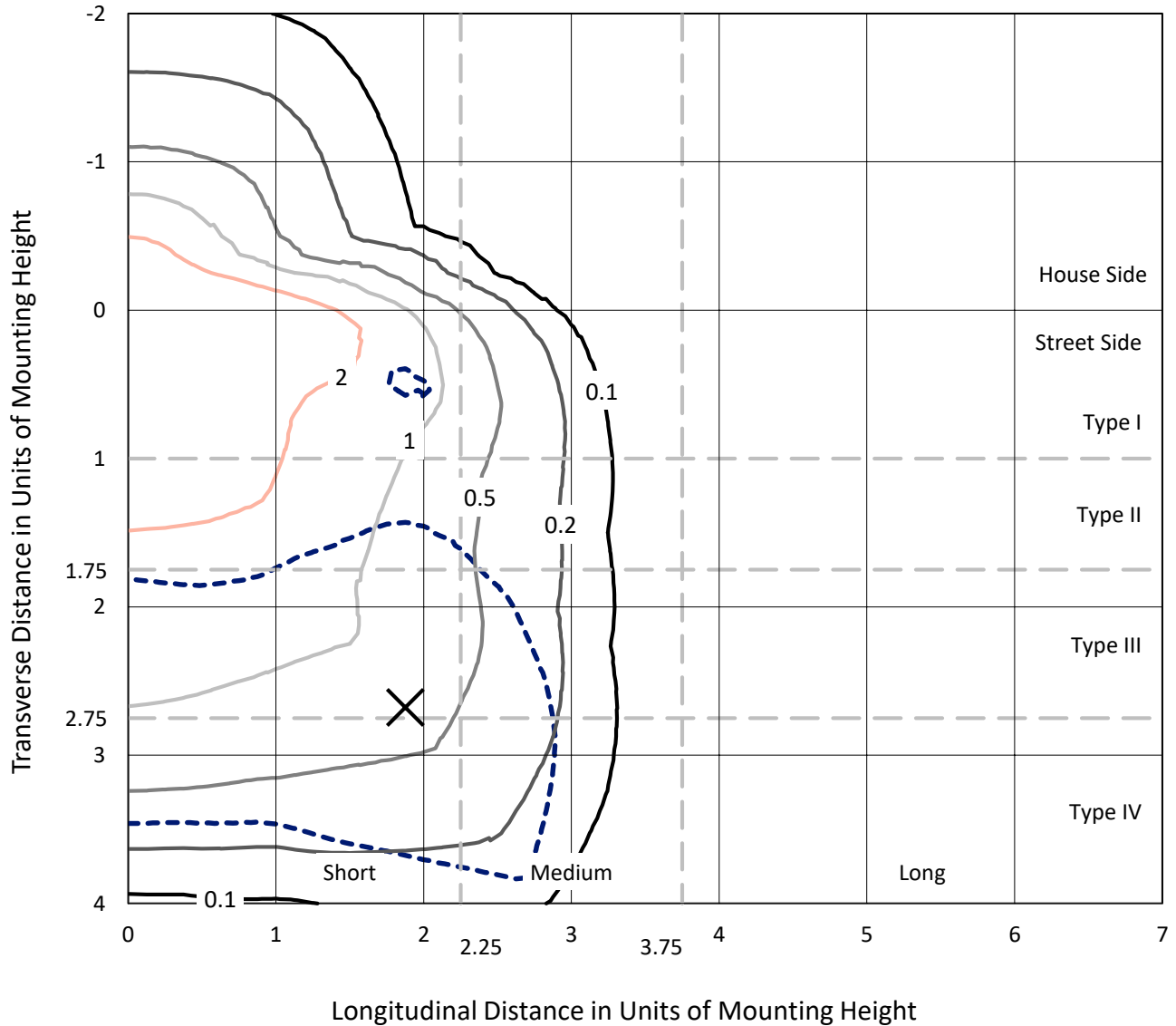


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Iso-Footcandle Lines of Horizontal Illumination

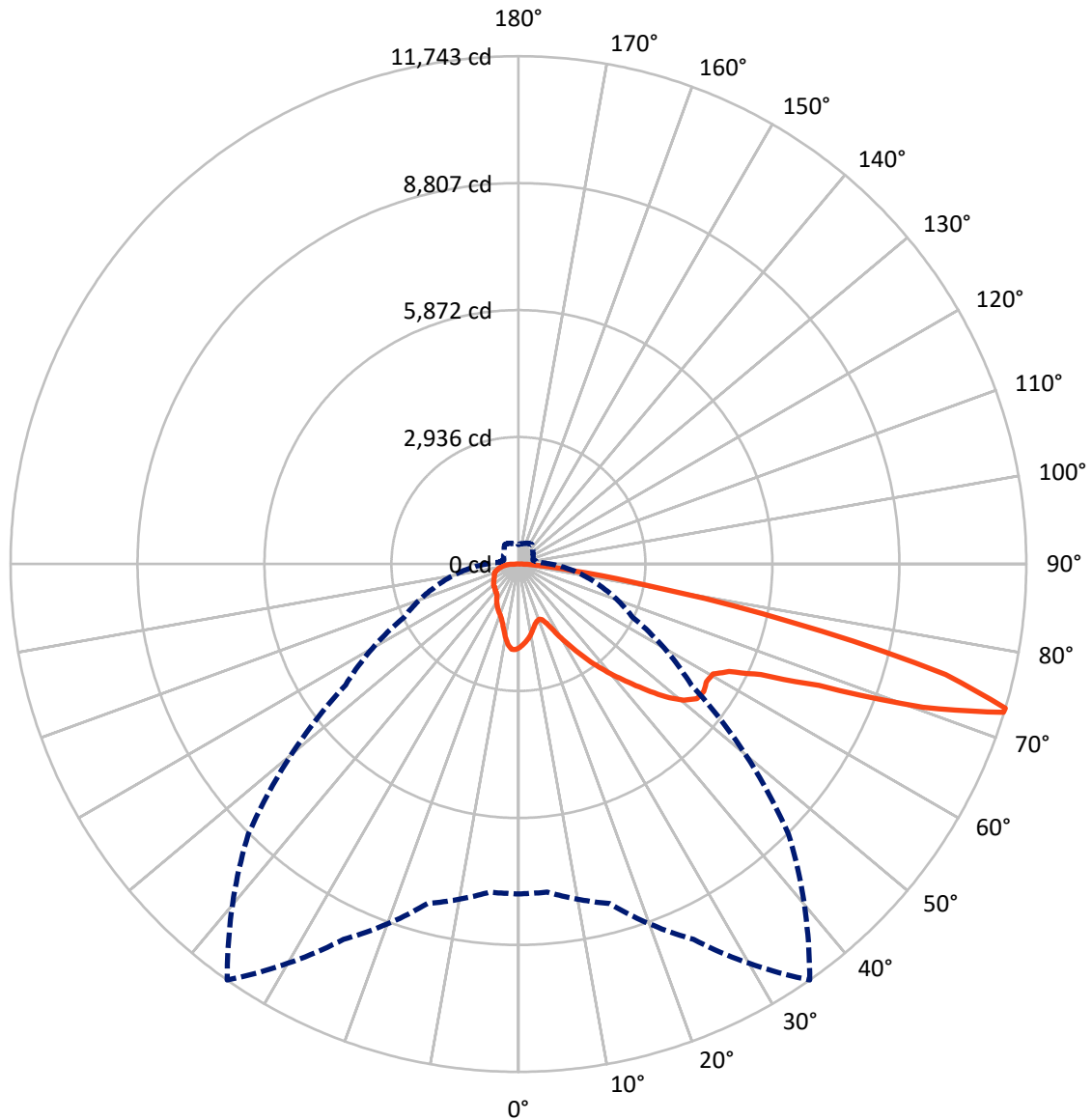
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 4.8 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	2447.4	0.0	2447.4
	% Fixture	19.1	0.0	19.1
Street Side	Lumens	10384.5	0.0	10384.5
	% Fixture	80.9	0.0	80.9
Total	Lumens	12831.9	0.0	12831.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	175.3	1.4
10°-20°	437.6	3.4
20°-30°	707.4	5.5
30°-40°	1186.3	9.2
40°-50°	1828.6	14.3
50°-60°	2453.3	19.1
60°-70°	3268.2	25.5
70°-80°	2492.7	19.4
80°-90°	282.5	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°	12831.9	100.0
0°-180°	12831.9	100.0



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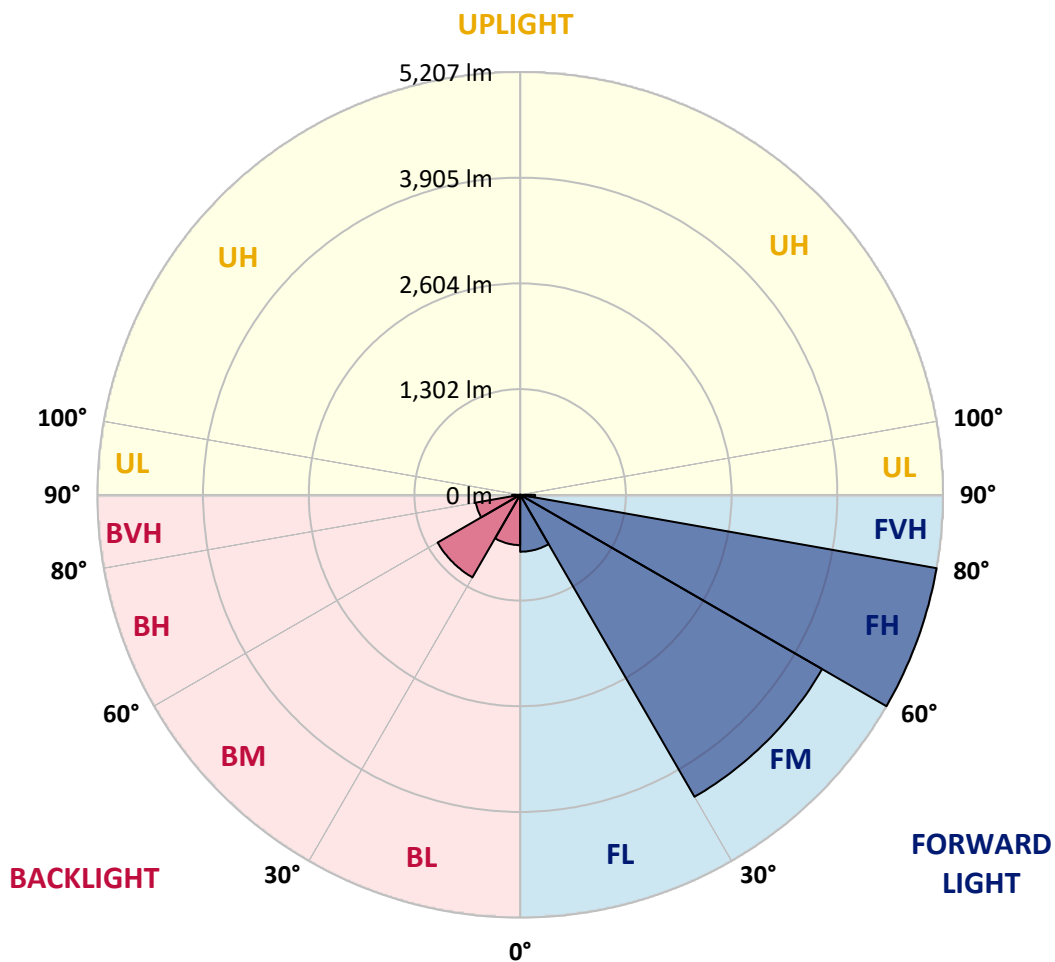
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	701.1	5.5			
FM	(30°-60°)	4293.6	33.5			
FH	(60°-80°)	5207.2	40.6			G3/7500
FVH	(80°-90°)	182.6	1.4			G2/225
BL	(0°-30°)	619.3	4.8	B2/1000		
BM	(30°-60°)	1174.5	9.2	B2/2500		
BH	(60°-80°)	553.7	4.3	B2/1000		G2/1000
BVH	(80°-90°)	99.9	0.8			G1/100
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°	1936.7	1936.7	1936.7	1936.7	1936.7	1936.7	1936.7	1936.7	1936.7	1936.7	1936.7
2.5°	1860.3	1864.1	1859.8	1865.2	1874.6	1884.4	1891.1	1901.1	1912.1	1927.6	1931.1
5°	1772.8	1778.4	1778.4	1788.3	1806.1	1822.1	1836.9	1852.9	1876.3	1902.8	1913.3
7.5°	1676.6	1679.8	1685.3	1700.1	1726.1	1748.8	1769.8	1795.6	1827.6	1862.7	1881.3
10°	1560.8	1565.1	1573.8	1594.8	1629.9	1661.2	1691.5	1727.3	1767.9	1811.6	1835.1
12.5°	1478.9	1477.6	1481.3	1496.8	1527.6	1565.7	1609.6	1655.1	1705.1	1756.1	1784.6
15°	1451.1	1444.4	1430.2	1426.5	1443.1	1481.3	1531.9	1587.9	1647.8	1709.4	1744.5
17.5°	1468.4	1456.7	1417.9	1389.6	1387.1	1416.1	1469.6	1532.5	1601.5	1676.6	1720.4
20°	1576.9	1549.1	1453.6	1387.7	1364.9	1379.1	1425.9	1492.4	1573.8	1673.6	1729.6
22.5°	1836.2	1795.6	1592.9	1470.3	1393.2	1375.9	1411.1	1481.9	1576.9	1711.8	1783.2
25°	2214.1	2156.1	1832.0	1676.1	1517.1	1425.3	1433.2	1506.0	1620.6	1800.6	1886.8
27.5°	2512.3	2474.7	2144.4	1966.3	1742.6	1558.4	1505.4	1566.4	1710.0	1946.0	2034.1
30°	2689.7	2667.0	2478.3	2295.3	2030.3	1770.4	1643.4	1679.8	1849.8	2147.5	2220.3
32.5°	2895.5	2882.0	2789.5	2621.3	2341.0	2048.9	1862.1	1849.3	2037.1	2389.6	2422.9
35°	3108.8	3104.5	3050.3	2929.5	2674.3	2416.1	2152.3	2064.9	2241.1	2641.0	2620.0
37.5°	3307.2	3299.7	3268.4	3198.1	3023.1	2810.4	2448.2	2286.1	2461.1	2881.4	2788.2
40°	3672.6	3614.7	3506.9	3453.9	3375.7	3142.6	2683.0	2492.5	2689.2	3110.7	2933.8
42.5°	4118.1	4023.8	3822.9	3750.2	3739.1	3404.5	2843.1	2692.8	2919.0	3338.0	3076.8
45°	4468.7	4380.0	4206.9	4115.0	4155.6	3641.8	3004.0	2906.6	3155.6	3576.4	3223.9
47.5°	4842.8	4703.4	4474.3	4501.9	4590.7	3866.0	3168.0	3136.5	3414.9	3843.3	3407.0
50°	4856.2	4749.7	4649.3	4815.1	4953.1	4072.5	3373.0	3377.4	3732.4	4179.1	3650.4
52.5°	4574.7	4551.9	4711.5	4972.2	5171.3	4235.8	3606.7	3626.4	4138.4	4564.8	3917.8
55°	4476.2	4450.3	4634.4	4917.3	5200.7	4370.8	3859.8	3895.6	4629.5	4971.5	4178.5
57.5°	4716.5	4659.1	4671.5	4891.5	5128.7	4518.7	4135.9	4208.1	5163.2	5327.0	4346.1
60°	5388.2	5265.4	5032.6	5026.9	5167.5	4740.4	4455.1	4543.3	5717.7	5497.2	4280.8
62.5°	6330.3	6207.6	5771.4	5487.2	5466.4	5106.4	4847.1	4870.5	6038.1	5266.8	3882.0
65°	7350.1	7240.3	6753.0	6351.8	6158.3	5712.9	5302.4	5016.6	5933.5	4632.6	3184.5
67.5°	8588.1	8470.4	8051.2	7681.0	7494.9	6691.4	5622.2	4876.7	5268.6	3588.8	2289.2
70°	9453.9	9333.7	9168.6	9468.7	9923.9	8103.2	5663.5	4307.9	3935.0	2385.3	1377.8
72.5°	8324.4	8268.2	8569.6	9833.3	11730.1	8959.6	5119.4	3136.5	2285.5	1266.3	797.3
73°	7626.8	7614.5	8128.4	9577.6	11743.1	8827.7	4880.9	2915.3	1960.1	1120.2	729.0
75°	3443.9	3543.2	4669.6	7315.5	10202.5	7274.2	3435.4	1672.4	1107.3	774.0	550.3
77.5°	827.6	862.1	1461.1	3474.1	6443.1	4335.0	1556.6	826.9	708.0	546.6	401.7
80°	352.4	364.2	562.6	1283.6	3033.5	1745.6	717.2	554.0	489.8	381.4	281.6
82.5°	196.0	208.2	319.2	582.3	1224.4	595.2	437.6	385.7	322.3	229.8	183.1
85°	110.9	117.7	186.7	325.4	518.9	239.0	261.9	256.3	181.7	118.2	90.0
87.5°	52.5	56.8	90.0	150.9	203.3	93.7	133.0	146.7	113.9	72.1	46.8
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1936.7	1936.7	1936.7	1936.7	1936.7	1936.7	1936.7	1936.7	1936.7	1936.7
2.5°	1935.5	1946.5	1959.6	1966.3	1972.5	1979.9	1987.3	1987.3	1988.5	1989.0
5°	1922.0	1944.7	1965.1	1973.7	1975.6	1975.6	1973.7	1963.9	1955.3	1958.9
7.5°	1893.5	1926.9	1944.1	1941.1	1917.6	1890.6	1867.8	1840.0	1825.8	1823.4
10°	1852.9	1891.1	1894.3	1863.4	1805.5	1747.6	1699.6	1652.6	1630.5	1624.9
12.5°	1808.0	1843.1	1823.4	1759.9	1666.8	1582.5	1521.4	1473.9	1453.0	1447.4
15°	1771.5	1795.6	1745.6	1645.9	1528.7	1439.4	1388.9	1353.7	1339.1	1334.7
17.5°	1752.6	1757.4	1666.3	1531.3	1406.7	1332.2	1300.8	1284.1	1278.6	1275.6
20°	1761.8	1727.3	1590.4	1424.6	1306.9	1254.7	1247.1	1242.8	1241.6	1239.8
22.5°	1808.0	1718.0	1520.8	1323.7	1219.4	1196.6	1202.8	1202.2	1200.9	1199.7
25°	1890.6	1726.1	1453.0	1227.4	1146.1	1141.1	1152.3	1152.3	1147.3	1147.3
27.5°	1999.5	1742.6	1377.2	1136.3	1079.7	1080.2	1088.8	1086.4	1080.8	1077.1
30°	2132.7	1753.1	1288.4	1054.3	1017.3	1014.8	1017.3	1006.9	990.2	989.0
32.5°	2268.8	1740.1	1185.6	981.6	951.5	945.8	943.9	929.2	910.2	904.7
35°	2392.0	1692.8	1080.8	923.6	888.6	876.2	884.9	879.9	862.7	858.4
37.5°	2482.0	1604.6	986.6	872.6	843.6	840.5	846.1	847.9	827.6	823.2
40°	2542.5	1485.1	905.9	829.5	835.0	823.2	804.7	791.9	785.7	783.9
42.5°	2591.2	1360.7	838.1	809.1	836.9	802.9	762.9	741.9	753.0	757.9
45°	2647.2	1239.2	781.3	783.9	827.6	779.5	733.8	713.6	717.8	719.2
47.5°	2724.2	1091.4	720.4	743.2	796.7	763.5	715.9	687.1	666.7	657.5
50°	2830.9	916.4	656.9	697.5	766.6	751.8	688.3	657.5	619.9	611.2
52.5°	2904.8	753.0	604.5	659.4	739.5	728.3	666.2	626.1	586.7	579.2
55°	2864.8	625.4	558.8	616.9	703.7	699.4	647.7	594.0	563.1	557.0
57.5°	2664.5	544.7	523.8	576.7	660.0	674.7	623.0	566.9	544.7	540.4
60°	2282.5	494.2	501.7	549.7	624.2	650.2	598.4	552.1	537.4	534.2
62.5°	1771.0	460.3	484.9	529.9	596.5	632.9	584.7	550.3	544.7	541.0
65°	1268.8	433.3	467.1	510.1	571.2	616.9	579.9	547.7	549.0	546.0
67.5°	862.1	409.2	445.5	488.0	546.6	602.7	573.1	539.3	554.6	550.9
70°	603.2	385.7	420.2	459.8	515.7	582.9	560.7	526.2	525.0	510.1
72.5°	470.8	354.9	385.7	420.2	476.3	555.2	536.1	497.3	476.9	461.5
73°	449.2	347.6	377.1	411.7	467.7	548.4	529.3	489.2	466.5	452.2
75°	371.5	315.5	342.7	373.4	430.7	516.3	496.0	452.9	423.9	415.3
77.5°	292.0	269.9	295.8	323.5	379.5	469.5	446.7	405.5	389.4	382.0
80°	216.3	223.7	246.4	271.1	329.0	419.7	399.2	358.1	429.5	411.7
82.5°	152.3	169.5	190.4	212.5	276.0	371.0	346.2	303.7	314.2	261.2
85°	90.0	110.9	130.7	149.7	199.1	307.5	285.9	242.2	198.4	189.2
87.5°	52.5	61.7	67.2	86.9	136.8	231.8	201.5	179.3	102.9	69.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)