

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: P194061

Luminaire Tested: **GLEON-AF-03-LED-E1-T4FT-8030-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P194061
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-8030-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 3000K, 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: 12052 lumens
Efficiency: N/A
Efficacy: 97.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B2 - U0 - G2

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

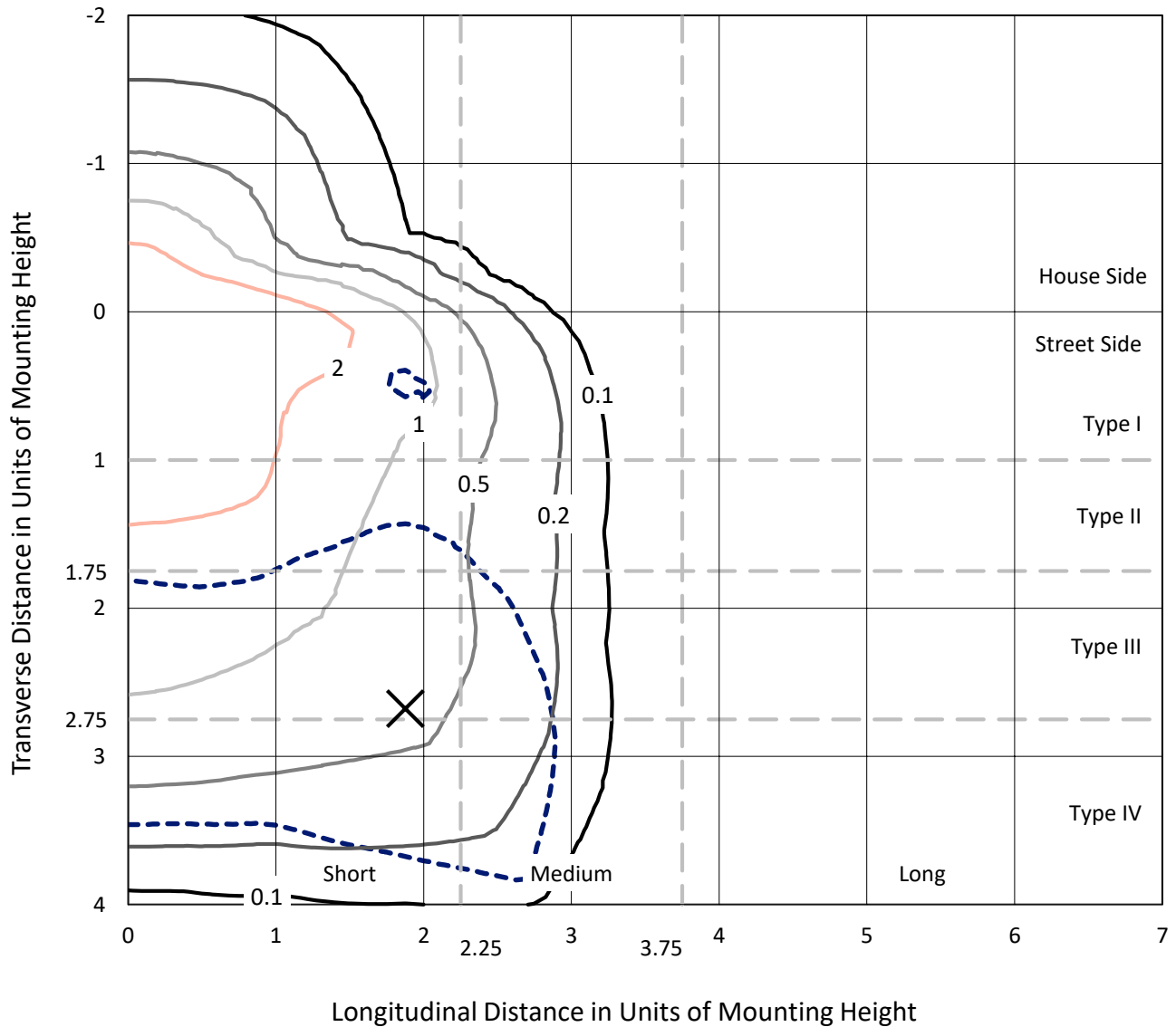


REPORT NUMBER: P194061

CATALOG NUMBER: GLEON-AF-03-LED-E1-T4FT-8030-800

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

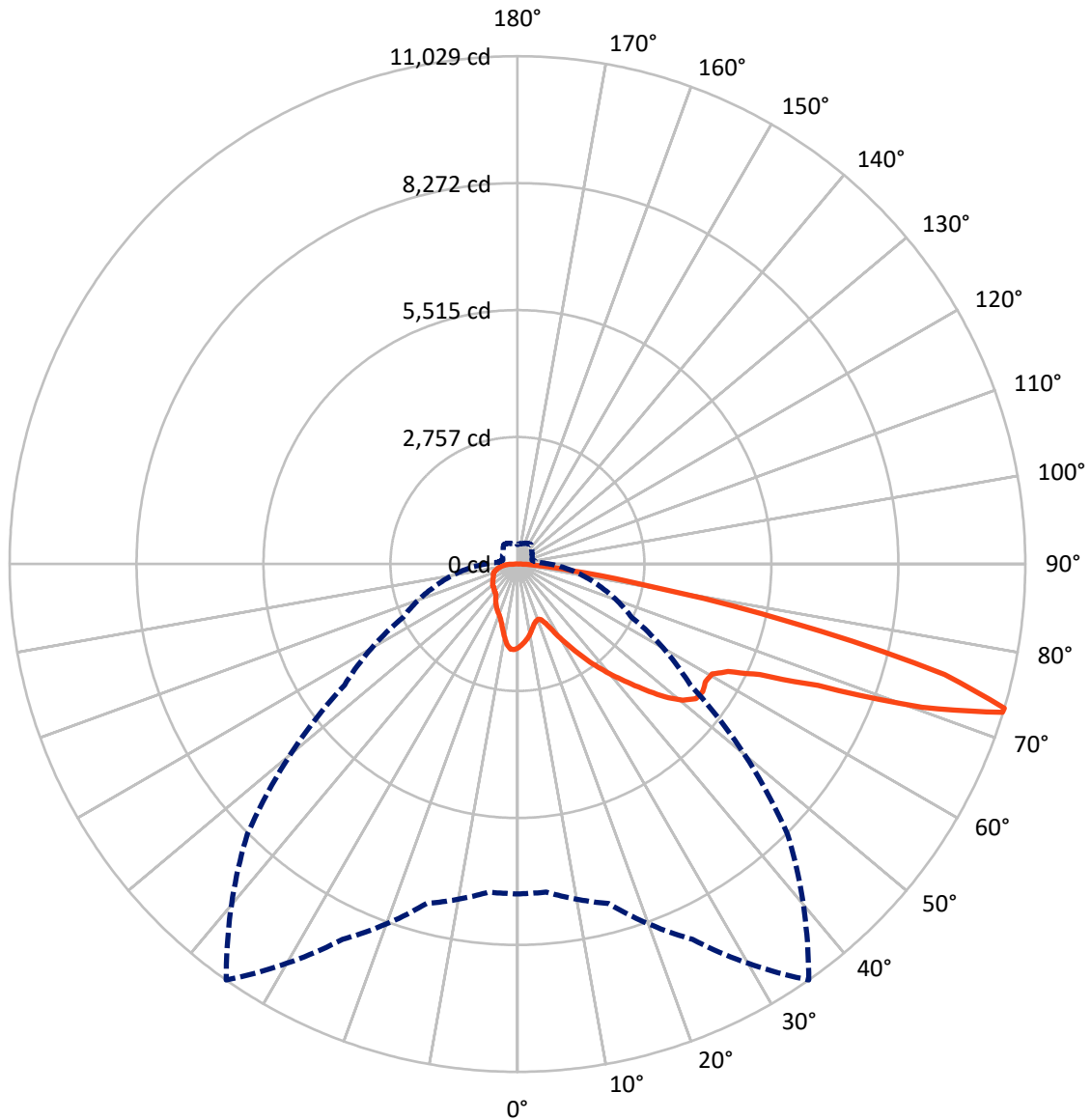


Based on 20 foot mounting height. Maximum calculated value = 4.5 fc
 Type IV - Short - Non-Cutoff

REPORT NUMBER: P194061

CATALOG NUMBER: GLEON-AF-03-LED-E1-T4FT-8030-800

Luminous Intensity Polar Plot



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

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CATALOG NUMBER: GLEON-AF-03-LED-E1-T4FT-8030-800

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2298.7	0.0	2298.7
	% Fixture	19.1	0.0	19.1
Street Side	Lumens	9753.4	0.0	9753.4
	% Fixture	80.9	0.0	80.9
Total	Lumens	12052.0	0.0	12052.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	164.7	1.4
10°-20°	411.0	3.4
20°-30°	664.4	5.5
30°-40°	1114.2	9.2
40°-50°	1717.5	14.3
50°-60°	2304.1	19.1
60°-70°	3069.6	25.5
70°-80°	2341.2	19.4
80°-90°	265.4	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°	12052.0	100.0
0°-180°	12052.0	100.0

Coefficient of Utilization



REPORT NUMBER: P194061

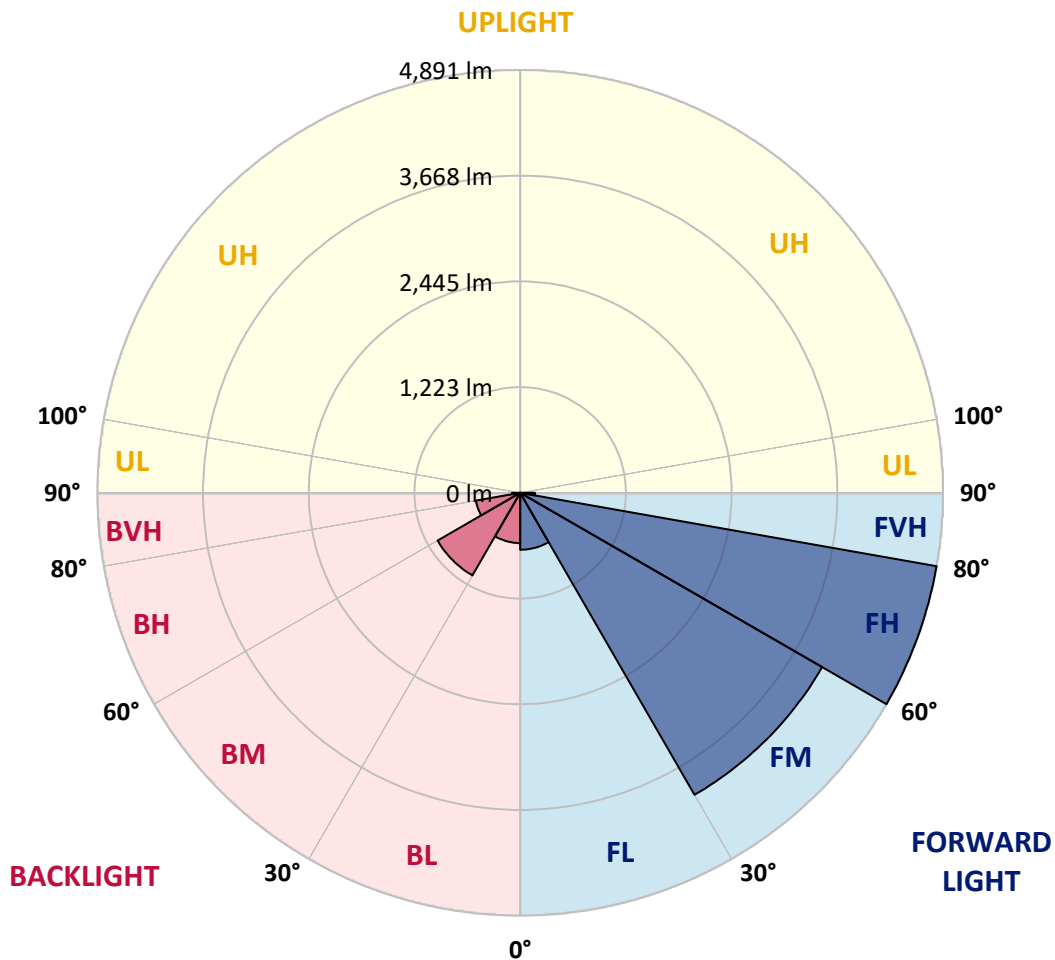
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	658.4	5.5			
FM (30°-60°)	4032.7	33.5			
FH (60°-80°)	4890.7	40.6			G2/5000
FVH (80°-90°)	171.5	1.4			G2/225
BL (0°-30°)	581.7	4.8	B2/1000		
BM (30°-60°)	1103.1	9.2	B2/2500		
BH (60°-80°)	520.1	4.3	B2/1000		G2/1000
BVH (80°-90°)	93.8	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-G2

Type IV Short





REPORT NUMBER: P194061

CATALOG NUMBER: GLEON-AF-03-LED-E1-T4FT-8030-800

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1819.0	1819.0	1819.0	1819.0	1819.0	1819.0	1819.0	1819.0	1819.0	1819.0	1819.0
2.5°	1747.3	1750.7	1746.7	1751.9	1760.6	1769.8	1776.2	1785.5	1795.9	1810.3	1813.8
5°	1665.1	1670.3	1670.3	1679.5	1696.3	1711.4	1725.3	1740.3	1762.3	1787.2	1797.0
7.5°	1574.8	1577.7	1582.9	1596.8	1621.1	1642.5	1662.2	1686.5	1716.6	1749.6	1766.9
10°	1466.0	1470.0	1478.1	1497.8	1530.8	1560.3	1588.7	1622.2	1660.4	1701.5	1723.5
12.5°	1389.0	1387.9	1391.3	1405.8	1434.7	1470.6	1511.7	1554.5	1601.4	1649.4	1676.1
15°	1363.0	1356.6	1343.3	1339.8	1355.4	1391.3	1438.8	1491.4	1547.6	1605.5	1638.5
17.5°	1379.2	1368.2	1331.7	1305.1	1302.8	1330.0	1380.3	1439.4	1504.2	1574.8	1615.9
20°	1481.0	1455.0	1365.3	1303.4	1281.9	1295.2	1339.2	1401.7	1478.1	1571.9	1624.6
22.5°	1724.7	1686.5	1496.1	1380.9	1308.6	1292.4	1325.3	1391.9	1481.0	1607.8	1674.9
25°	2079.5	2025.1	1720.6	1574.2	1424.9	1338.7	1346.2	1414.5	1522.1	1691.1	1772.1
27.5°	2359.6	2324.3	2014.1	1846.8	1636.7	1463.7	1413.9	1471.2	1606.0	1827.7	1910.5
30°	2526.3	2504.8	2327.7	2155.9	1907.0	1662.8	1543.5	1577.7	1737.4	2017.0	2085.2
32.5°	2719.6	2706.8	2620.0	2462.0	2198.7	1924.4	1749.0	1736.8	1913.4	2244.4	2275.7
35°	2919.8	2915.8	2864.8	2751.4	2511.8	2269.3	2021.6	1939.4	2104.9	2480.5	2460.9
37.5°	3106.2	3099.2	3069.7	3003.7	2839.4	2639.7	2299.4	2147.2	2311.5	2706.2	2618.9
40°	3449.4	3395.0	3293.7	3243.9	3170.4	2951.6	2519.9	2341.1	2525.7	2921.5	2755.4
42.5°	3867.8	3779.3	3590.6	3522.3	3511.9	3197.6	2670.4	2529.2	2741.6	3135.1	2889.7
45°	4197.1	4113.8	3951.1	3864.9	3903.1	3420.4	2821.4	2730.0	2963.8	3359.1	3028.0
47.5°	4548.4	4417.6	4202.3	4228.4	4311.7	3631.1	2975.4	2945.9	3207.5	3609.7	3199.9
50°	4561.2	4461.0	4366.7	4522.4	4652.0	3825.0	3168.1	3172.1	3505.5	3925.1	3428.5
52.5°	4296.7	4275.2	4425.1	4670.0	4856.9	3978.3	3387.4	3406.0	3886.9	4287.4	3679.7
55°	4204.1	4179.8	4352.8	4618.5	4884.7	4105.1	3625.3	3658.9	4348.2	4669.4	3924.5
57.5°	4429.8	4376.0	4387.5	4594.1	4817.0	4244.0	3884.6	3952.3	4849.4	5003.3	4081.9
60°	5060.6	4945.4	4726.7	4721.5	4853.4	4452.3	4184.4	4267.1	5370.3	5163.1	4020.6
62.5°	5945.5	5830.4	5420.6	5153.8	5134.1	4796.1	4552.5	4574.5	5671.2	4946.6	3646.1
65°	6903.4	6800.3	6342.6	5965.8	5784.1	5365.6	4980.2	4711.6	5572.8	4351.1	2991.0
67.5°	8066.1	7955.5	7562.0	7214.2	7039.4	6284.7	5280.5	4580.3	4948.3	3370.7	2150.1
70°	8879.2	8766.4	8611.3	8893.1	9320.8	7610.6	5319.3	4046.1	3695.9	2240.4	1294.1
72.5°	7818.4	7765.7	8048.7	9235.7	11017.1	8415.1	4808.3	2945.9	2146.6	1189.3	748.9
73°	7163.2	7151.7	7634.3	8995.6	11029.3	8291.2	4584.3	2738.1	1841.0	1052.2	684.7
75°	3234.7	3327.8	4385.8	6871.0	9582.4	6832.2	3226.5	1570.7	1040.0	726.9	516.8
77.5°	777.3	809.7	1372.2	3263.0	6051.4	4071.5	1461.9	776.7	665.0	513.4	377.3
80°	331.0	342.0	528.4	1205.5	2849.2	1639.6	673.7	520.3	460.1	358.2	264.5
82.5°	184.0	195.6	299.8	546.9	1150.0	559.1	410.9	362.3	302.7	215.9	171.9
85°	104.2	110.5	175.4	305.6	487.3	224.6	246.0	240.8	170.7	111.1	84.5
87.5°	49.2	53.2	84.5	141.8	191.0	88.0	125.0	137.7	107.1	67.7	44.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P194061

CATALOG NUMBER: GLEON-AF-03-LED-E1-T4FT-8030-800

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1819.0	1819.0	1819.0	1819.0	1819.0	1819.0	1819.0	1819.0	1819.0	1819.0
2.5°	1817.9	1828.3	1840.4	1846.8	1852.6	1859.5	1866.5	1866.5	1867.6	1868.2
5°	1805.1	1826.5	1845.6	1853.7	1855.5	1855.5	1853.7	1844.5	1836.4	1839.9
7.5°	1778.5	1809.8	1826.0	1823.1	1801.1	1775.6	1754.2	1728.2	1714.8	1712.5
10°	1740.3	1776.2	1779.1	1750.1	1695.7	1641.3	1596.2	1552.2	1531.4	1526.2
12.5°	1698.1	1731.1	1712.5	1652.9	1565.5	1486.2	1428.9	1384.4	1364.7	1359.5
15°	1663.9	1686.5	1639.6	1545.8	1435.9	1352.0	1304.5	1271.5	1257.6	1253.6
17.5°	1646.0	1650.6	1564.9	1438.2	1321.3	1251.3	1221.7	1206.1	1200.9	1198.0
20°	1654.7	1622.2	1493.8	1338.1	1227.5	1178.3	1171.4	1167.3	1166.2	1164.5
22.5°	1698.1	1613.6	1428.4	1243.2	1145.4	1123.9	1129.7	1129.1	1128.0	1126.8
25°	1775.6	1621.1	1364.7	1152.9	1076.5	1071.9	1082.3	1082.3	1077.6	1077.6
27.5°	1878.1	1636.7	1293.5	1067.2	1014.0	1014.6	1022.7	1020.3	1015.1	1011.7
30°	2003.1	1646.6	1210.2	990.2	955.5	953.2	955.5	945.7	930.1	928.9
32.5°	2131.0	1634.4	1113.5	922.0	893.6	888.4	886.6	872.8	854.8	849.6
35°	2246.7	1589.8	1015.1	867.6	834.6	823.0	831.1	826.5	810.3	806.2
37.5°	2331.2	1507.1	926.6	819.5	792.3	789.4	794.6	796.4	777.3	773.2
40°	2387.9	1394.8	850.8	779.0	784.2	773.2	755.9	743.7	737.9	736.2
42.5°	2433.7	1277.9	787.1	759.9	785.9	754.1	716.5	696.8	707.2	711.9
45°	2486.3	1163.9	733.9	736.2	777.3	732.1	689.3	670.2	674.2	675.4
47.5°	2558.7	1025.0	676.6	698.0	748.3	717.1	672.5	645.3	626.2	617.5
50°	2658.8	860.6	617.0	655.1	720.0	706.1	646.5	617.5	582.2	574.1
52.5°	2728.2	707.2	567.8	619.3	694.5	684.1	625.6	588.0	551.0	544.0
55°	2690.6	587.4	524.9	579.3	660.9	656.9	608.3	557.9	529.0	523.2
57.5°	2502.5	511.6	491.9	541.7	619.8	633.7	585.1	532.5	511.6	507.6
60°	2143.7	464.2	471.1	516.2	586.3	610.6	562.0	518.6	504.7	501.8
62.5°	1663.3	432.3	455.5	497.7	560.2	594.4	549.2	516.8	511.6	508.1
65°	1191.7	406.9	438.7	479.2	536.5	579.3	544.6	514.5	515.7	512.8
67.5°	809.7	384.3	418.4	458.4	513.4	566.0	538.2	506.4	520.9	517.4
70°	566.6	362.3	394.7	431.7	484.4	547.5	526.7	494.3	493.1	479.2
72.5°	442.2	333.4	362.3	394.7	447.4	521.5	503.5	467.1	448.0	433.5
73°	421.9	326.4	354.2	386.6	439.3	515.1	497.1	459.5	438.1	424.8
75°	349.0	296.3	321.8	350.7	404.5	485.0	465.9	425.4	398.2	390.1
77.5°	274.3	253.5	277.8	303.8	356.5	441.0	419.6	380.8	365.8	358.8
80°	203.1	210.1	231.5	254.7	309.1	394.1	375.0	336.3	403.4	386.6
82.5°	143.0	159.2	178.8	199.7	259.3	348.4	325.3	285.3	295.2	245.4
85°	84.5	104.2	122.7	140.6	186.9	288.8	268.5	227.4	186.4	177.7
87.5°	49.2	57.9	63.1	81.6	128.5	217.6	189.3	168.4	96.7	65.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)