

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: P194851

Luminaire Tested: **GLEON-AF-03-LED-E1-T4FT-7060-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P194851
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-7060-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 5700K, 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: 12045 lumens
Efficiency: N/A
Efficacy: 125.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B2 - U0 - G2

Input Watts (W): 96
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

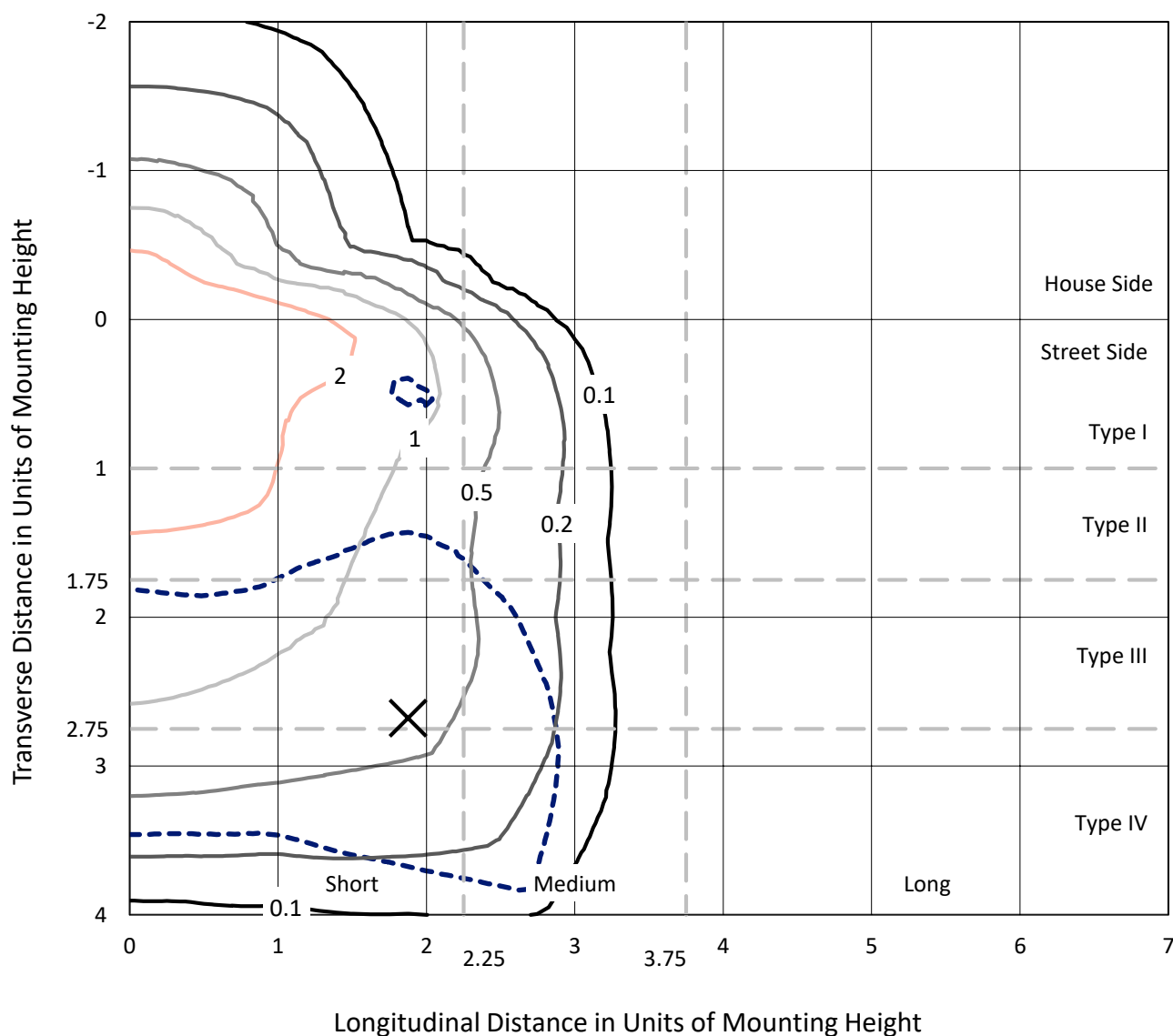


REPORT NUMBER: P194851

CATALOG NUMBER: GLEON-AF-03-LED-E1-T4FT-7060-600

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

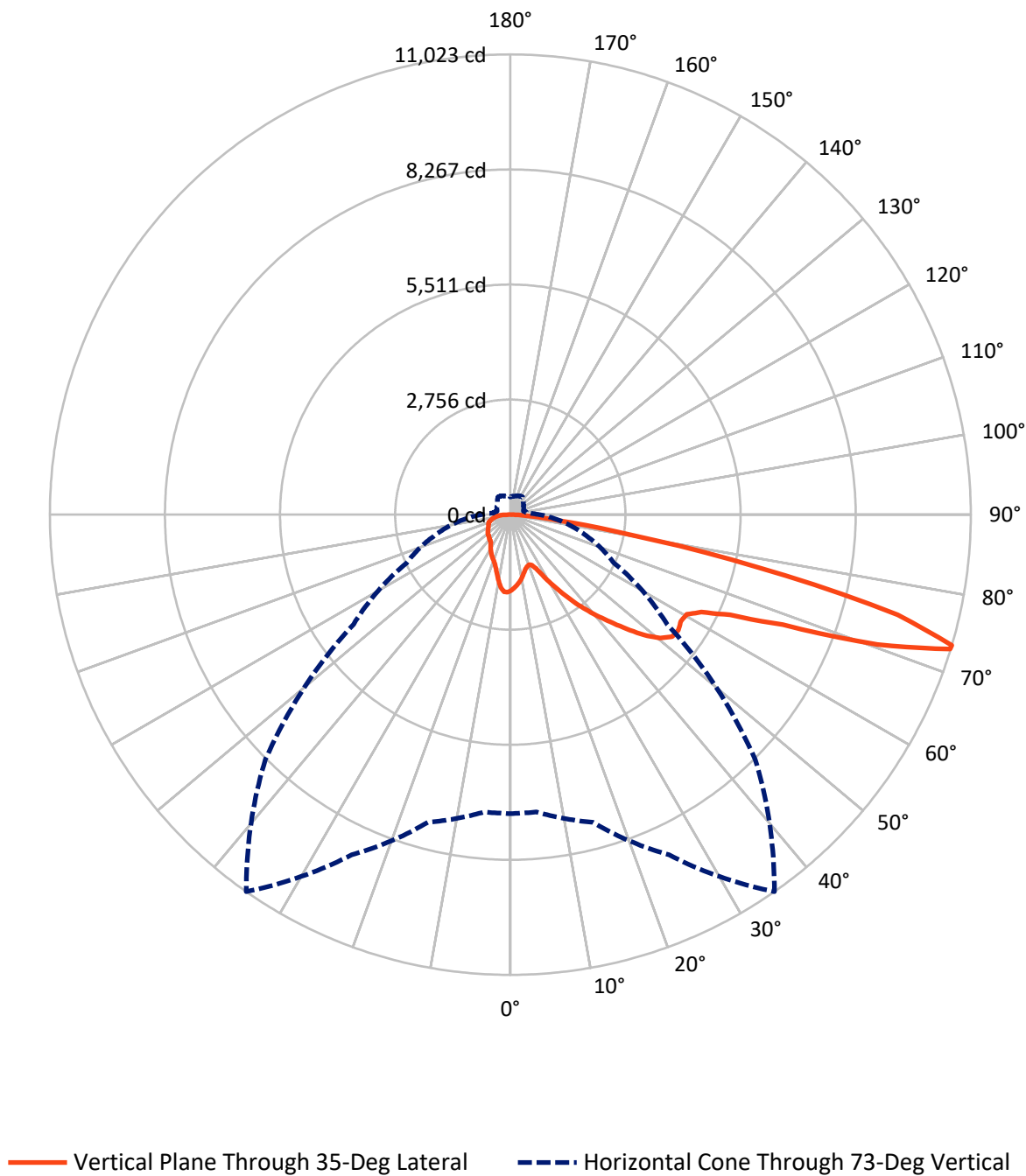


Based on 20 foot mounting height. Maximum calculated value = 4.5 fc
 Type IV - Short - Non-Cutoff

REPORT NUMBER: P194851

CATALOG NUMBER: GLEON-AF-03-LED-E1-T4FT-7060-600

Luminous Intensity Polar Plot



REPORT NUMBER: P194851

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2297.3	0.0	2297.3
	% Fixture	19.1	0.0	19.1
Street Side	Lumens	9747.7	0.0	9747.7
	% Fixture	80.9	0.0	80.9
Total	Lumens	12045.0	0.0	12045.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	164.6	1.4
10°-20°	410.8	3.4
20°-30°	664.1	5.5
30°-40°	1113.5	9.2
40°-50°	1716.5	14.3
50°-60°	2302.8	19.1
60°-70°	3067.8	25.5
70°-80°	2339.8	19.4
80°-90°	265.2	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°	12045.0	100.0
0°-180°	12045.0	100.0

Coefficient of Utilization



REPORT NUMBER: P194851

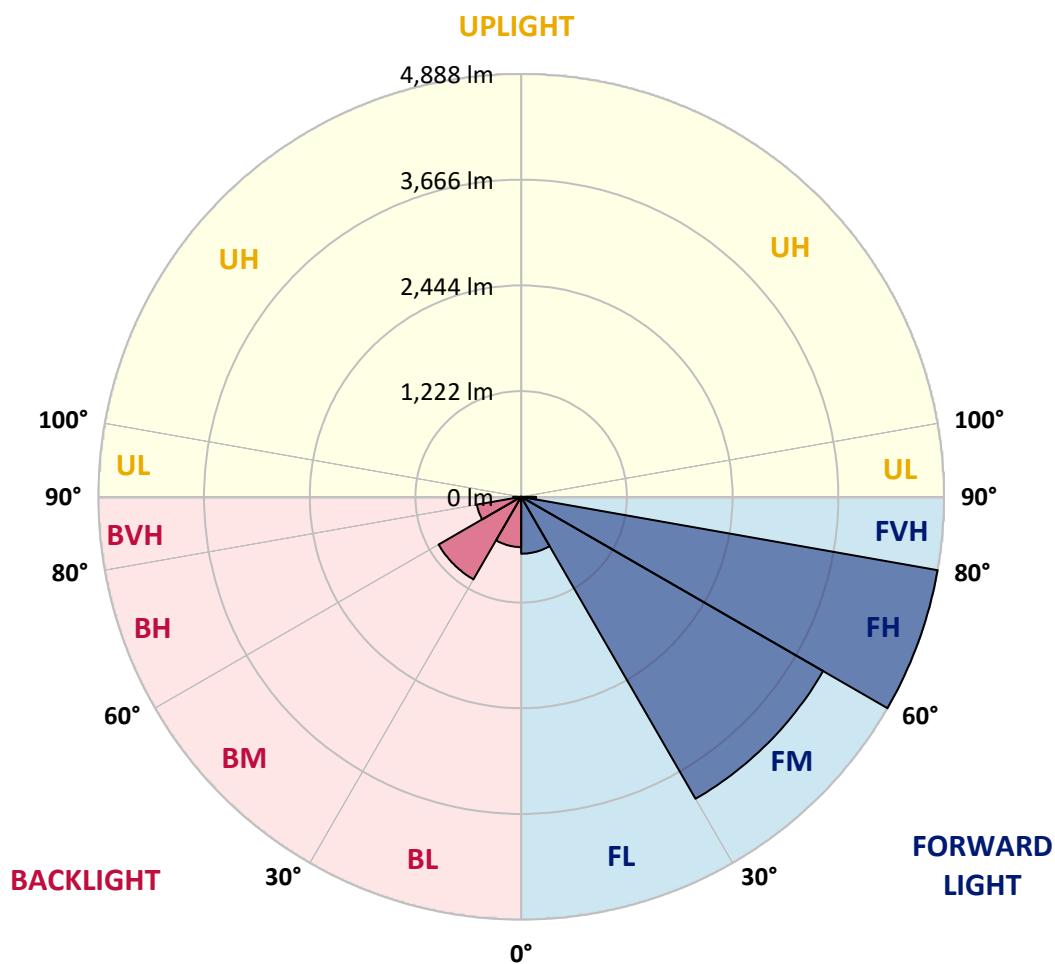
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	658.1	5.5			
FM	(30°-60°)	4030.3	33.5			
FH	(60°-80°)	4887.9	40.6			G2/5000
FVH	(80°-90°)	171.4	1.4			G2/225
BL	(0°-30°)	581.3	4.8	B2/1000		
BM	(30°-60°)	1102.5	9.2	B2/2500		
BH	(60°-80°)	519.8	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: P194851

CATALOG NUMBER: GLEON-AF-03-LED-E1-T4FT-7060-600

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1818.0	1818.0	1818.0	1818.0	1818.0	1818.0	1818.0	1818.0	1818.0	1818.0	1818.0
2.5°	1746.2	1749.7	1745.7	1750.9	1759.5	1768.8	1775.2	1784.4	1794.8	1809.3	1812.8
5°	1664.1	1669.3	1669.3	1678.6	1695.3	1710.4	1724.3	1739.3	1761.3	1786.2	1796.0
7.5°	1573.9	1576.8	1582.0	1595.9	1620.1	1641.5	1661.2	1685.5	1715.6	1748.6	1765.9
10°	1465.1	1469.2	1477.3	1496.9	1529.9	1559.4	1587.8	1621.3	1659.5	1700.5	1722.5
12.5°	1388.2	1387.0	1390.5	1405.0	1433.9	1469.8	1510.8	1553.6	1600.5	1648.5	1675.1
15°	1362.2	1355.8	1342.5	1339.0	1354.7	1390.5	1437.9	1490.6	1546.7	1604.5	1637.5
17.5°	1378.4	1367.4	1330.9	1304.3	1302.0	1329.2	1379.5	1438.5	1503.3	1573.9	1614.9
20°	1480.2	1454.1	1364.5	1302.6	1281.2	1294.5	1338.5	1400.9	1477.3	1571.0	1623.6
22.5°	1723.7	1685.5	1495.2	1380.1	1307.8	1291.6	1324.6	1391.1	1480.2	1606.8	1673.9
25°	2078.3	2023.9	1719.6	1573.3	1424.1	1337.9	1345.4	1413.7	1521.2	1690.1	1771.1
27.5°	2358.2	2322.9	2012.9	1845.7	1635.8	1462.8	1413.1	1470.3	1605.1	1826.6	1909.4
30°	2524.8	2503.4	2326.4	2154.6	1905.9	1661.8	1542.6	1576.8	1736.4	2015.8	2084.0
32.5°	2718.0	2705.3	2618.5	2460.6	2197.4	1923.2	1748.0	1735.8	1912.2	2243.1	2274.3
35°	2918.1	2914.1	2863.2	2749.8	2510.3	2268.0	2020.4	1938.3	2103.7	2479.1	2459.4
37.5°	3104.4	3097.4	3067.9	3002.0	2837.7	2638.2	2298.1	2145.9	2310.2	2704.7	2617.3
40°	3447.4	3393.0	3291.8	3242.0	3168.6	2949.9	2518.4	2339.7	2524.2	2919.8	2753.8
42.5°	3865.6	3777.1	3588.5	3520.2	3509.8	3195.8	2668.8	2527.7	2740.0	3133.3	2888.0
45°	4194.7	4111.4	3948.9	3862.7	3900.8	3418.4	2819.8	2728.4	2962.1	3357.1	3026.3
47.5°	4545.8	4415.1	4199.9	4225.9	4309.2	3629.0	2973.6	2944.1	3205.6	3607.6	3198.1
50°	4558.5	4458.4	4364.2	4519.8	4649.3	3822.8	3166.3	3170.3	3503.5	3922.8	3426.5
52.5°	4294.2	4272.8	4422.6	4667.2	4854.1	3976.0	3385.5	3404.0	3884.6	4284.9	3677.6
55°	4201.6	4177.3	4350.3	4615.8	4881.8	4102.7	3623.2	3656.8	4345.6	4666.7	3922.2
57.5°	4427.2	4373.4	4385.0	4591.5	4814.2	4241.5	3882.3	3950.0	4846.6	5000.4	4079.6
60°	5057.7	4942.6	4723.9	4718.7	4850.6	4449.8	4182.0	4264.7	5367.1	5160.1	4018.3
62.5°	5942.1	5827.0	5417.5	5150.8	5131.1	4793.3	4549.8	4571.8	5667.9	4943.7	3644.0
65°	6899.4	6796.4	6338.9	5962.3	5780.7	5362.5	4977.3	4708.9	5569.6	4348.5	2989.3
67.5°	8061.4	7950.9	7557.6	7210.0	7035.3	6281.0	5277.5	4577.6	4945.5	3368.7	2148.8
70°	8874.1	8761.3	8606.3	8888.0	9315.4	7606.2	5316.2	4043.7	3693.8	2239.1	1293.3
72.5°	7813.8	7761.2	8044.0	9230.4	11010.7	8410.2	4805.5	2944.1	2145.3	1188.6	748.5
73°	7159.1	7147.5	7629.9	8990.3	11022.9	8286.4	4581.6	2736.5	1839.9	1051.6	684.3
75°	3232.8	3325.9	4383.2	6867.0	9576.9	6828.2	3224.7	1569.8	1039.4	726.5	516.5
77.5°	776.8	809.2	1371.4	3261.1	6047.9	4069.2	1461.1	776.2	664.6	513.1	377.1
80°	330.9	341.8	528.1	1204.8	2847.5	1638.7	673.3	520.0	459.8	358.0	264.3
82.5°	183.9	195.5	299.6	546.6	1149.3	558.8	410.7	362.1	302.5	215.7	171.8
85°	104.1	110.5	175.3	305.4	487.0	224.4	245.8	240.6	170.6	111.1	84.4
87.5°	49.2	53.2	84.4	141.7	190.9	87.9	124.9	137.7	107.0	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: P194851

CATALOG NUMBER: GLEON-AF-03-LED-E1-T4FT-7060-600

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1818.0	1818.0	1818.0	1818.0	1818.0	1818.0	1818.0	1818.0	1818.0	1818.0
2.5°	1816.8	1827.2	1839.4	1845.7	1851.5	1858.5	1865.4	1865.4	1866.6	1867.1
5°	1804.1	1825.5	1844.6	1852.7	1854.4	1854.4	1852.7	1843.4	1835.3	1838.8
7.5°	1777.5	1808.7	1824.9	1822.0	1800.0	1774.6	1753.2	1727.2	1713.8	1711.5
10°	1739.3	1775.2	1778.1	1749.1	1694.8	1640.4	1595.3	1551.3	1530.5	1525.3
12.5°	1697.1	1730.0	1711.5	1652.0	1564.6	1485.4	1428.1	1383.6	1363.9	1358.7
15°	1662.9	1685.5	1638.7	1545.0	1435.1	1351.2	1303.8	1270.8	1256.9	1252.9
17.5°	1645.0	1649.6	1564.0	1437.4	1320.5	1250.5	1221.0	1205.4	1200.2	1197.3
20°	1653.7	1621.3	1492.9	1337.3	1226.8	1177.7	1170.7	1166.7	1165.5	1163.8
22.5°	1697.1	1612.6	1427.5	1242.4	1144.7	1123.3	1129.1	1128.5	1127.3	1126.2
25°	1774.6	1620.1	1363.9	1152.2	1075.9	1071.2	1081.6	1081.6	1077.0	1077.0
27.5°	1877.0	1635.8	1292.8	1066.6	1013.4	1014.0	1022.1	1019.7	1014.5	1011.1
30°	2001.9	1645.6	1209.5	989.7	955.0	952.7	955.0	945.1	929.5	928.4
32.5°	2129.7	1633.4	1112.9	921.4	893.1	887.9	886.1	872.3	854.3	849.1
35°	2245.4	1588.9	1014.5	867.0	834.1	822.5	830.6	826.0	809.8	805.7
37.5°	2329.9	1506.2	926.0	819.0	791.9	789.0	794.2	795.9	776.8	772.8
40°	2386.5	1394.0	850.3	778.5	783.8	772.8	755.4	743.3	737.5	735.7
42.5°	2432.2	1277.1	786.6	759.5	785.5	753.7	716.1	696.4	706.8	711.5
45°	2484.9	1163.2	733.4	735.7	776.8	731.7	688.9	669.8	673.9	675.0
47.5°	2557.2	1024.4	676.2	697.6	747.9	716.7	672.1	644.9	625.8	617.2
50°	2657.2	860.1	616.6	654.8	719.6	705.7	646.1	617.2	581.9	573.8
52.5°	2726.7	706.8	567.4	618.9	694.1	683.7	625.3	587.7	550.7	543.7
55°	2689.1	587.1	524.6	579.0	660.6	656.5	607.9	557.6	528.7	522.9
57.5°	2501.1	511.3	491.7	541.4	619.5	633.4	584.8	532.1	511.3	507.3
60°	2142.5	463.9	470.8	515.9	585.9	610.2	561.6	518.3	504.4	501.5
62.5°	1662.4	432.1	455.2	497.4	559.9	594.0	548.9	516.5	511.3	507.9
65°	1191.0	406.6	438.4	478.9	536.2	579.0	544.3	514.2	515.4	512.5
67.5°	809.2	384.1	418.2	458.1	513.1	565.7	537.9	506.1	520.6	517.1
70°	566.3	362.1	394.5	431.5	484.1	547.2	526.4	494.0	492.8	478.9
72.5°	441.9	333.2	362.1	394.5	447.1	521.2	503.2	466.8	447.7	433.2
73°	421.7	326.2	354.0	386.4	439.0	514.8	496.9	459.3	437.9	424.6
75°	348.8	296.1	321.6	350.5	404.3	484.7	465.6	425.1	398.0	389.9
77.5°	274.2	253.3	277.6	303.7	356.3	440.8	419.4	380.6	365.6	358.6
80°	203.0	210.0	231.4	254.5	308.9	393.9	374.8	336.1	403.2	386.4
82.5°	142.9	159.1	178.7	199.6	259.1	348.2	325.1	285.2	295.0	245.2
85°	84.4	104.1	122.6	140.6	186.8	288.6	268.4	227.3	186.3	177.6
87.5°	49.2	57.8	63.0	81.6	128.4	217.5	189.1	168.3	96.6	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)