

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: P194870

Luminaire Tested: **GLEON-AF-02-LED-E1-T4FT-7060**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P194870
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-02-LED-E1-T4FT-7060
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 5700K, 1050mA 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: 12252 lumens
Efficiency: N/A
Efficacy: 108.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B2 - U0 - G2

Input Watts (W): 113
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

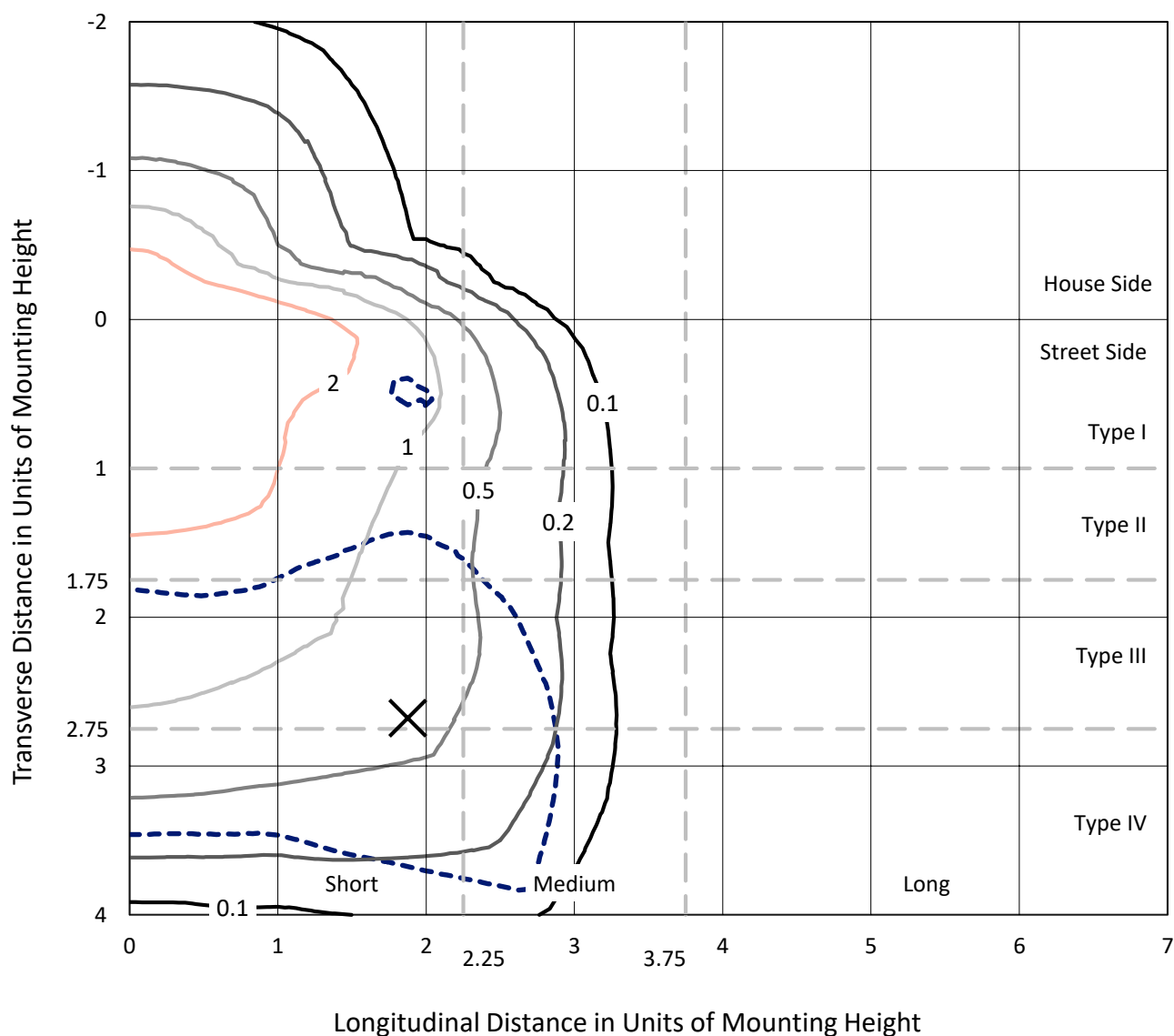


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

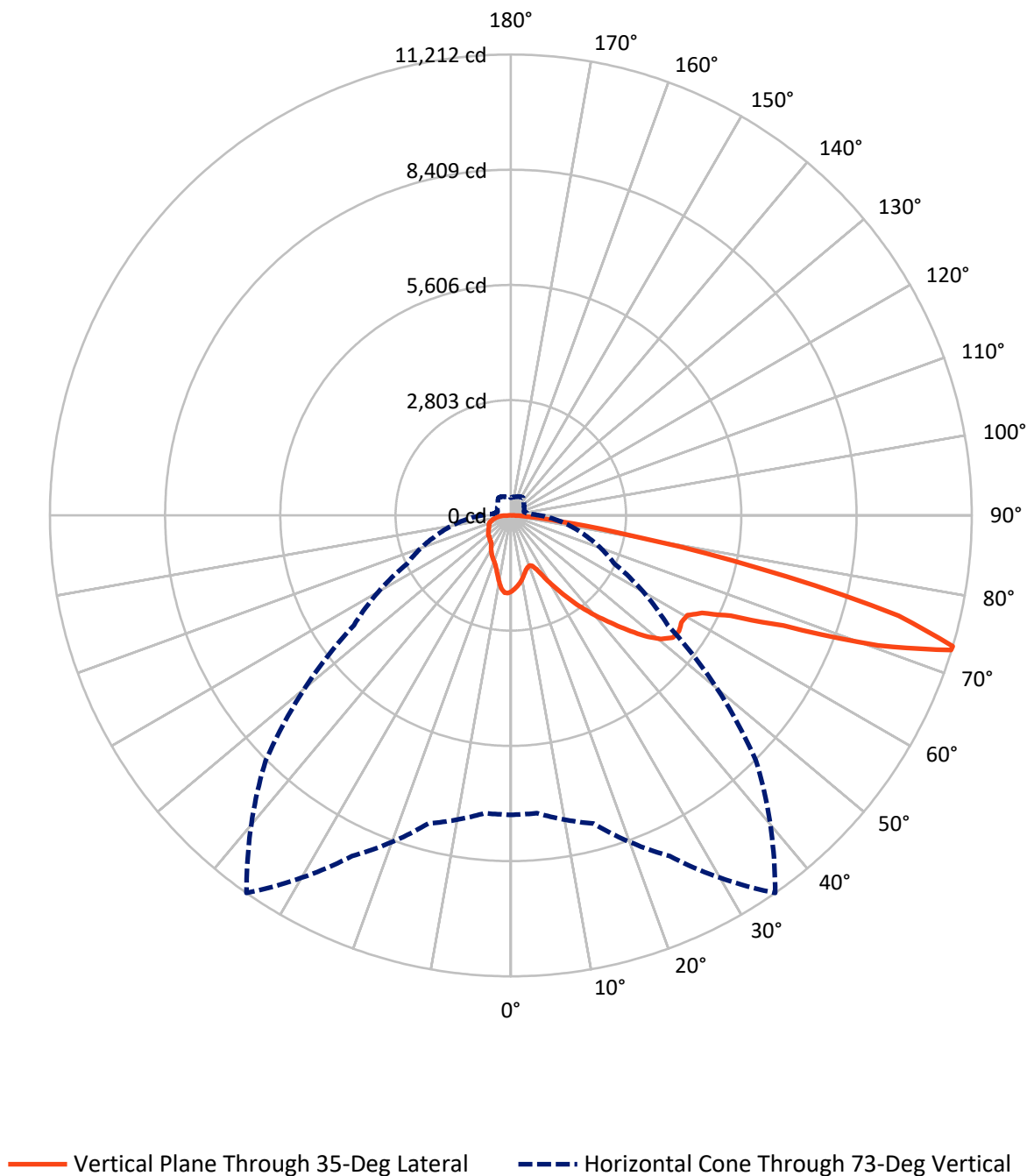


Based on 20 foot mounting height. Maximum calculated value = 4.6 fc
Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2336.8	0.0	2336.8
	% Fixture	19.1	0.0	19.1
Street Side	Lumens	9915.2	0.0	9915.2
	% Fixture	80.9	0.0	80.9
Total	Lumens	12252.0	0.0	12252.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	167.4	1.4
10°-20°	417.8	3.4
20°-30°	675.5	5.5
30°-40°	1132.7	9.2
40°-50°	1746.0	14.3
50°-60°	2342.4	19.1
60°-70°	3120.5	25.5
70°-80°	2380.0	19.4
80°-90°	269.8	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°	12252.0	100.0
0°-180°	12252.0	100.0

Coefficient of Utilization



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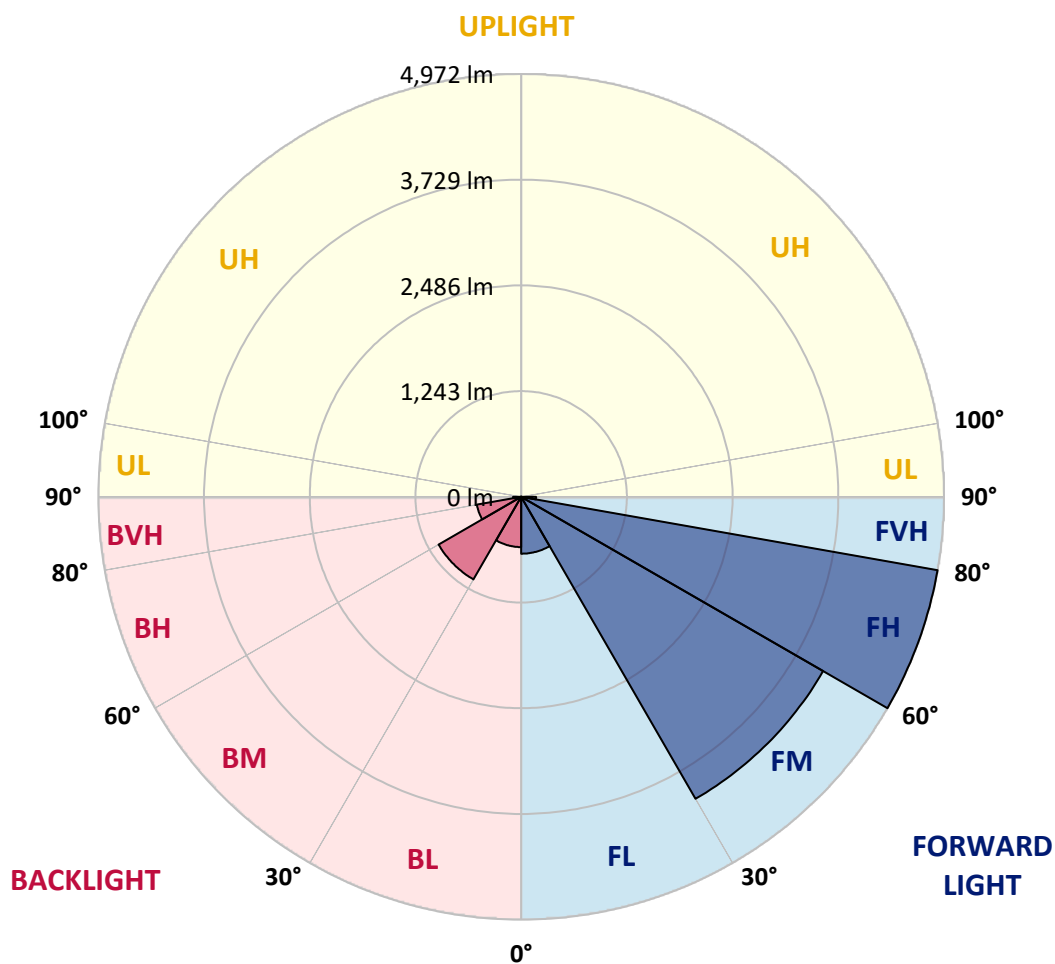
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	669.4	5.5			
FM	(30°-60°)	4099.6	33.5			
FH	(60°-80°)	4971.9	40.6			G2/5000
FVH	(80°-90°)	174.4	1.4			G2/225
BL	(0°-30°)	591.3	4.8	B2/1000		
BM	(30°-60°)	1121.4	9.2	B2/2500		
BH	(60°-80°)	528.7	4.3	B2/1000		G2/1000
BVH	(80°-90°)	95.4	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



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1849.2	1849.2	1849.2	1849.2	1849.2	1849.2	1849.2	1849.2	1849.2	1849.2	1849.2
2.5°	1776.3	1779.8	1775.7	1781.0	1789.8	1799.2	1805.7	1815.1	1825.7	1840.4	1843.9
5°	1692.7	1698.0	1698.0	1707.4	1724.5	1739.8	1753.9	1769.2	1791.5	1816.8	1826.8
7.5°	1600.9	1603.9	1609.2	1623.3	1648.0	1669.8	1689.8	1714.5	1745.1	1778.6	1796.3
10°	1490.3	1494.4	1502.7	1522.7	1556.2	1586.2	1615.0	1649.2	1688.0	1729.8	1752.1
12.5°	1412.1	1410.9	1414.4	1429.1	1458.5	1495.0	1536.8	1580.3	1628.0	1676.8	1703.9
15°	1385.6	1379.1	1365.6	1362.0	1377.9	1414.4	1462.7	1516.2	1573.3	1632.1	1665.6
17.5°	1402.1	1390.9	1353.8	1326.7	1324.4	1352.0	1403.2	1463.2	1529.1	1600.9	1642.7
20°	1505.6	1479.1	1387.9	1325.0	1303.2	1316.7	1361.5	1425.0	1502.7	1598.0	1651.5
22.5°	1753.3	1714.5	1520.9	1403.8	1330.3	1313.8	1347.3	1415.0	1505.6	1634.5	1702.7
25°	2114.0	2058.7	1749.2	1600.3	1448.5	1360.9	1368.5	1437.9	1547.4	1719.2	1801.6
27.5°	2398.7	2362.8	2047.5	1877.4	1663.9	1488.0	1437.4	1495.6	1632.7	1858.0	1942.2
30°	2568.2	2546.4	2366.4	2191.6	1938.6	1690.4	1569.1	1603.9	1766.2	2050.4	2119.9
32.5°	2764.7	2751.7	2663.5	2502.9	2235.2	1956.3	1778.0	1765.7	1945.1	2281.7	2313.4
35°	2968.3	2964.1	2912.4	2797.1	2553.5	2306.9	2055.1	1971.6	2139.9	2521.7	2501.7
37.5°	3157.7	3150.7	3120.6	3053.6	2886.5	2683.5	2337.5	2182.8	2349.9	2751.2	2662.3
40°	3506.6	3451.3	3348.3	3297.7	3223.0	3000.6	2561.7	2379.9	2567.6	2970.0	2801.2
42.5°	3932.0	3842.0	3650.2	3580.7	3570.2	3250.7	2714.7	2571.1	2787.0	3187.1	2937.7
45°	4266.8	4182.0	4016.7	3929.1	3967.9	3477.2	2868.2	2775.3	3013.0	3414.8	3078.3
47.5°	4623.9	4490.9	4272.1	4298.5	4383.3	3691.4	3024.7	2994.7	3260.7	3669.6	3253.0
50°	4636.8	4535.1	4439.2	4597.4	4729.2	3888.5	3220.7	3224.8	3563.7	3990.2	3485.4
52.5°	4368.0	4346.2	4498.6	4747.5	4937.5	4044.4	3443.7	3462.5	3951.4	4358.6	3740.8
55°	4273.8	4249.1	4425.0	4695.1	4965.7	4173.2	3685.5	3719.6	4420.3	4746.9	3989.7
57.5°	4503.3	4448.6	4460.3	4670.4	4896.9	4314.4	3949.1	4017.9	4929.8	5086.3	4149.7
60°	5144.6	5027.5	4805.1	4799.8	4934.0	4526.2	4253.8	4338.0	5459.4	5248.7	4087.3
62.5°	6044.2	5927.1	5510.6	5239.3	5219.3	4875.7	4628.0	4650.4	5765.3	5028.7	3706.7
65°	7017.9	6913.2	6447.8	6064.8	5880.0	5454.7	5062.8	4789.8	5665.3	4423.3	3040.6
67.5°	8199.9	8087.6	7687.5	7333.9	7156.2	6389.0	5368.2	4656.3	5030.5	3426.6	2185.7
70°	9026.6	8911.9	8754.2	9040.7	9475.5	7736.9	5407.6	4113.2	3757.3	2277.5	1315.6
72.5°	7948.1	7894.6	8182.3	9389.0	11200.0	8554.7	4888.1	2994.7	2182.2	1209.1	761.3
73°	7282.1	7270.3	7761.0	9144.8	11212.3	8428.8	4660.4	2783.5	1871.6	1069.6	696.0
75°	3288.3	3383.1	4458.6	6985.0	9741.4	6945.6	3280.1	1596.8	1057.3	739.0	525.4
77.5°	790.2	823.1	1395.0	3317.2	6151.9	4139.1	1486.2	789.6	676.0	521.9	383.6
80°	336.5	347.7	537.2	1225.5	2896.5	1666.8	684.8	528.9	467.7	364.2	268.9
82.5°	187.1	198.9	304.8	556.0	1169.1	568.4	417.7	368.3	307.7	219.5	174.7
85°	105.9	112.4	178.3	310.7	495.4	228.3	250.1	244.8	173.6	113.0	85.9
87.5°	50.0	54.1	85.9	144.1	194.2	89.4	127.1	140.0	108.8	68.8	44.7
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°	1849.2	1849.2	1849.2	1849.2	1849.2	1849.2	1849.2	1849.2	1849.2	1849.2
2.5°	1848.0	1858.6	1871.0	1877.4	1883.3	1890.4	1897.5	1897.5	1898.6	1899.2
5°	1835.1	1856.9	1876.3	1884.5	1886.3	1886.3	1884.5	1875.1	1866.9	1870.4
7.5°	1808.0	1839.8	1856.3	1853.3	1831.0	1805.1	1783.3	1756.8	1743.3	1740.9
10°	1769.2	1805.7	1808.6	1779.2	1723.9	1668.6	1622.7	1578.0	1556.8	1551.5
12.5°	1726.2	1759.8	1740.9	1680.3	1591.5	1510.9	1452.7	1407.4	1387.3	1382.1
15°	1691.5	1714.5	1666.8	1571.5	1459.7	1374.4	1326.2	1292.6	1278.5	1274.4
17.5°	1673.3	1678.0	1590.9	1462.1	1343.2	1272.0	1242.0	1226.1	1220.8	1217.9
20°	1682.1	1649.2	1518.6	1360.3	1247.9	1197.9	1190.8	1186.7	1185.5	1183.8
22.5°	1726.2	1640.3	1452.1	1263.8	1164.4	1142.6	1148.5	1147.9	1146.7	1145.5
25°	1805.1	1648.0	1387.3	1172.0	1094.3	1089.6	1100.2	1100.2	1095.5	1095.5
27.5°	1909.2	1663.9	1315.0	1084.9	1030.8	1031.4	1039.6	1037.3	1032.0	1028.4
30°	2036.3	1673.9	1230.3	1006.7	971.4	969.0	971.4	961.4	945.5	944.3
32.5°	2166.3	1661.5	1132.0	937.3	908.4	903.1	901.4	887.2	869.0	863.7
35°	2284.0	1616.2	1032.0	881.9	848.4	836.6	844.9	840.2	823.7	819.6
37.5°	2369.9	1532.1	942.0	833.1	805.5	802.5	807.8	809.6	790.2	786.0
40°	2427.6	1417.9	864.9	791.9	797.2	786.0	768.4	756.0	750.2	748.4
42.5°	2474.0	1299.1	800.2	772.5	799.0	766.6	728.4	708.4	719.0	723.7
45°	2527.6	1183.2	746.0	748.4	790.2	744.3	700.7	681.3	685.4	686.6
47.5°	2601.1	1042.0	687.8	709.6	760.7	729.0	683.7	656.0	636.6	627.8
50°	2702.9	874.9	627.2	666.0	731.9	717.8	657.2	627.8	591.9	583.7
52.5°	2773.5	719.0	577.2	629.5	706.0	695.4	636.0	597.8	560.1	553.1
55°	2735.3	597.2	533.6	588.9	671.9	667.8	618.4	567.2	537.8	531.9
57.5°	2544.1	520.1	500.1	550.7	630.1	644.3	594.8	541.3	520.1	516.0
60°	2179.3	471.9	478.9	524.8	596.0	620.7	571.3	527.2	513.0	510.1
62.5°	1690.9	439.5	463.0	506.0	569.5	604.2	558.4	525.4	520.1	516.6
65°	1211.4	413.6	446.0	487.2	545.4	588.9	553.6	523.0	524.2	521.3
67.5°	823.1	390.7	425.4	466.0	521.9	575.4	547.2	514.8	529.5	526.0
70°	576.0	368.3	401.3	438.9	492.5	556.6	535.4	502.5	501.3	487.2
72.5°	449.5	338.9	368.3	401.3	454.8	530.1	511.9	474.8	455.4	440.7
73°	428.9	331.8	360.1	393.0	446.6	523.6	505.4	467.2	445.4	431.9
75°	354.8	301.2	327.1	356.5	411.3	493.0	473.6	432.4	404.8	396.6
77.5°	278.9	257.7	282.4	308.9	362.4	448.3	426.6	387.1	371.8	364.8
80°	206.5	213.6	235.3	258.9	314.2	400.7	381.3	341.8	410.1	393.0
82.5°	145.3	161.8	181.8	203.0	263.6	354.2	330.7	290.1	300.1	249.5
85°	85.9	105.9	124.7	143.0	190.0	293.6	273.0	231.2	189.5	180.6
87.5°	50.0	58.8	64.1	83.0	130.6	221.2	192.4	171.2	98.3	66.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)