

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: P300429

Luminaire Tested: **GLNA-AF-03-LED-E1-T4FT-7030-600**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P300429  
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: GLNA-AF-03-LED-E1-T4FT-7030-600  
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE  
(3) 70 CRI, 3000K CCT 600mA LIGHTSQUARE WITH 16 LEDS EACH AND Type IV  
Forward Throw OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 11609.7 lumens  
Efficiency: N/A  
Efficacy: 120.9 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

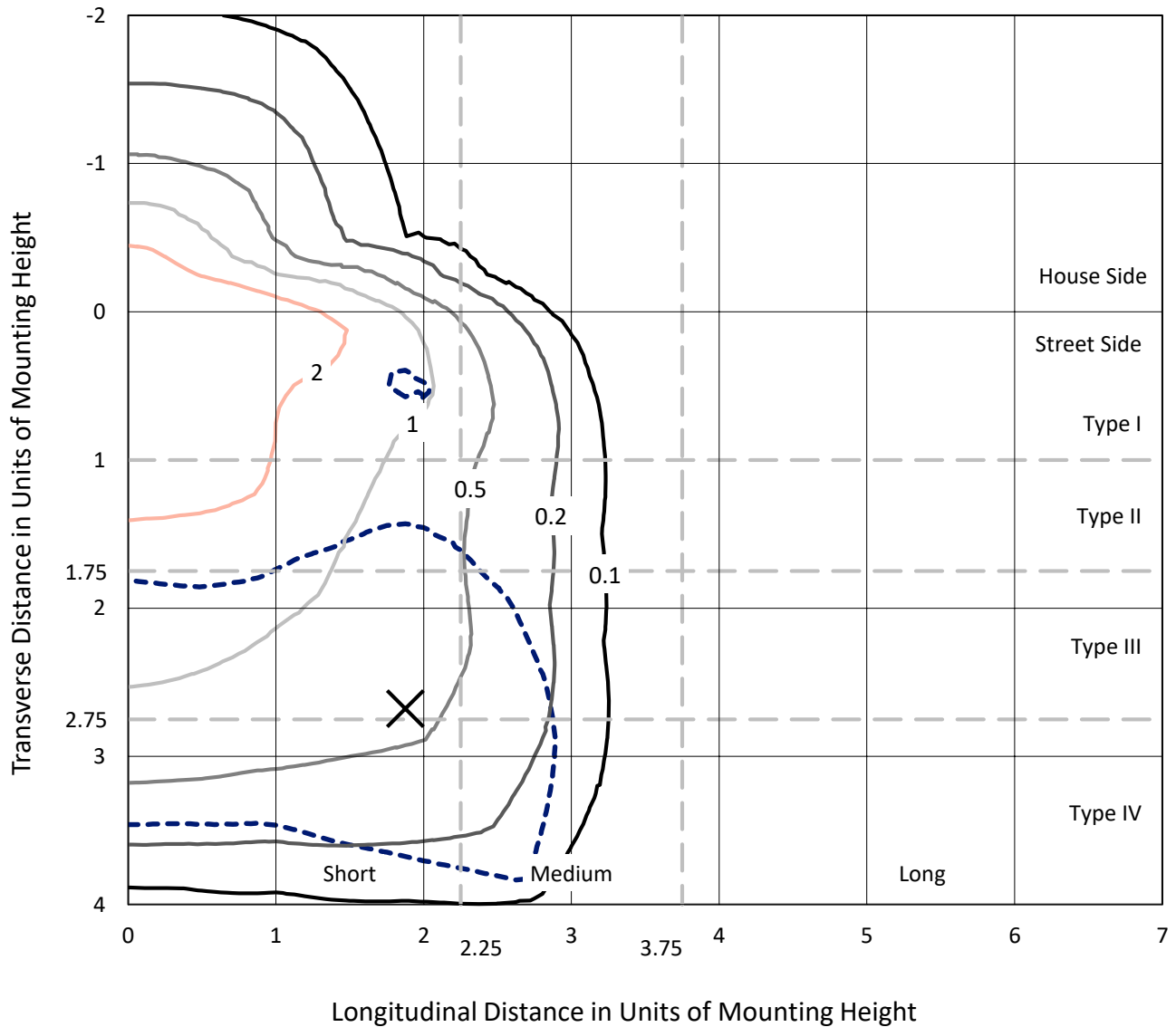


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### Iso-Footcandle Lines of Horizontal Illumination

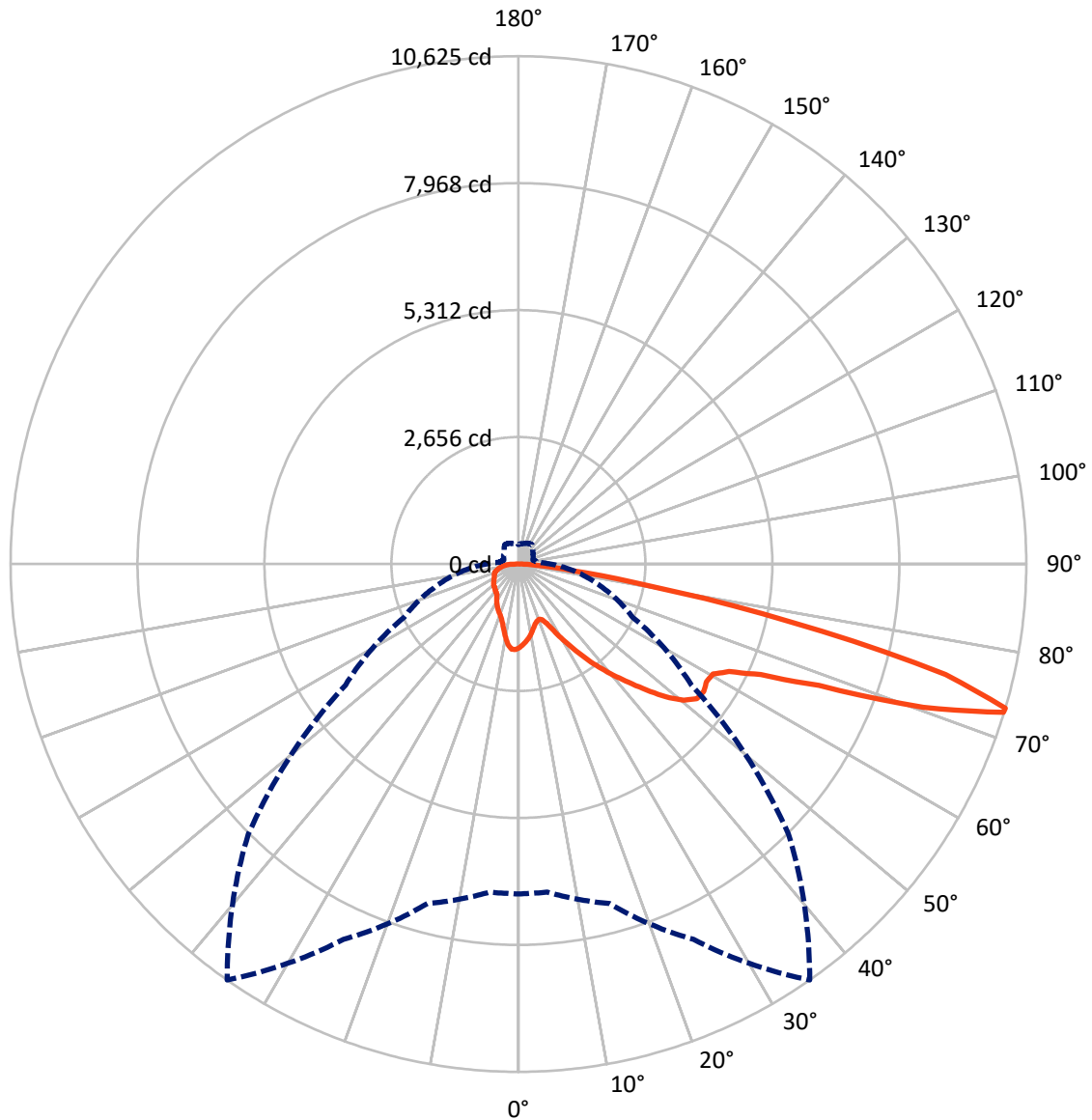
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 4.4 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
<b>House Side</b>	Lumens	2214.3	0.0	2214.3
	% Fixture	19.1	0.0	19.1
<b>Street Side</b>	Lumens	9395.4	0.0	9395.4
	% Fixture	80.9	0.0	80.9
<b>Total</b>	Lumens	11609.7	0.0	11609.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	158.6	1.4
10°-20°	395.9	3.4
20°-30°	640.1	5.5
30°-40°	1073.3	9.2
40°-50°	1654.4	14.3
50°-60°	2219.6	19.1
60°-70°	2956.9	25.5
70°-80°	2255.3	19.4
80°-90°	255.6	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°	11609.7	100.0
0°-180°	11609.7	100.0

**Coefficient of Utilization**



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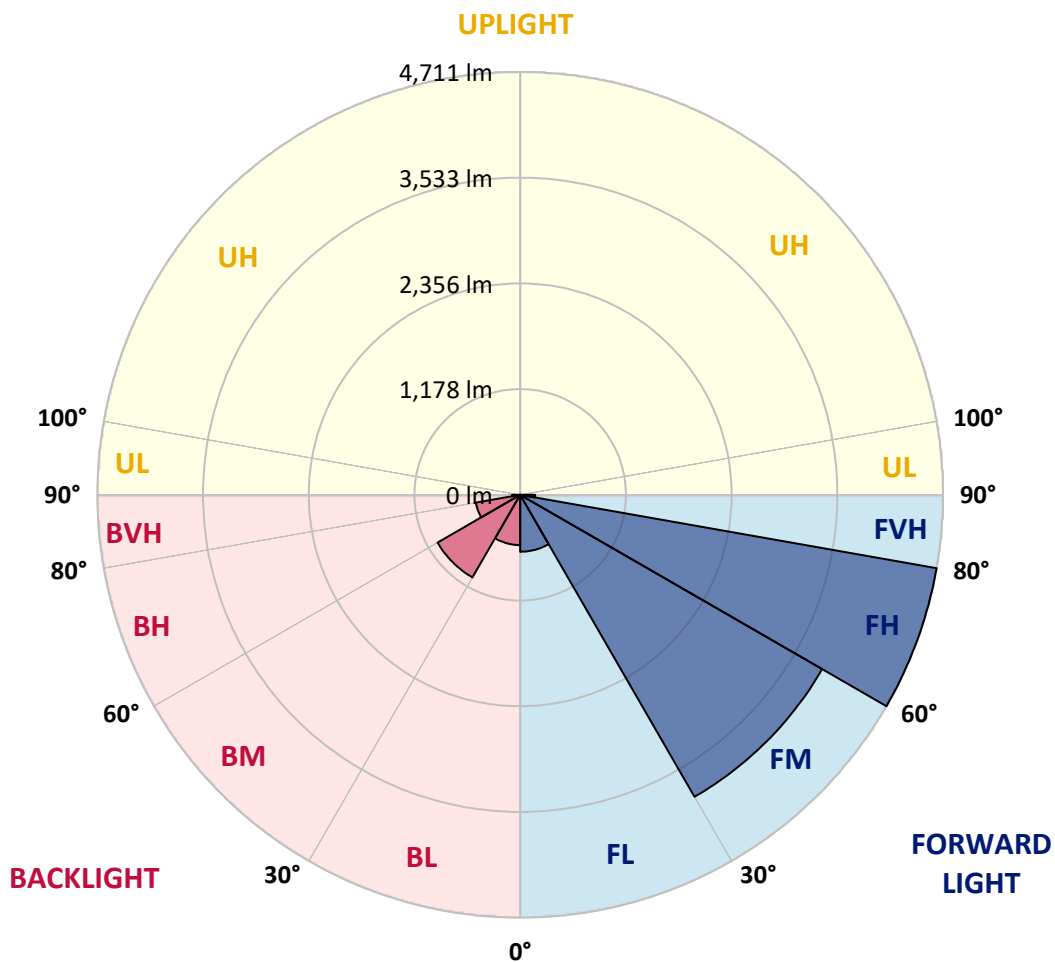
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	634.3	5.5			
FM (30°-60°)	3884.7	33.5			
FH (60°-80°)	4711.2	40.6			G2/5000
FVH (80°-90°)	165.2	1.4			G2/225
BL (0°-30°)	560.3	4.8	B2/1000		
BM (30°-60°)	1062.6	9.2	B2/2500		
BH (60°-80°)	501.0	4.3	B2/1000		G2/1000
BVH (80°-90°)	90.4	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°	1752.3	1752.3	1752.3	1752.3	1752.3	1752.3	1752.3	1752.3	1752.3	1752.3	1752.3
2.5°	1683.1	1686.5	1682.6	1687.6	1696.0	1704.9	1711.0	1719.9	1730.0	1743.9	1747.3
5°	1604.0	1609.0	1609.0	1617.9	1634.1	1648.6	1662.0	1676.4	1697.6	1721.6	1731.1
7.5°	1517.0	1519.8	1524.8	1538.2	1561.6	1582.2	1601.2	1624.6	1653.6	1685.4	1702.1
10°	1412.2	1416.1	1423.9	1442.8	1474.6	1503.1	1530.4	1562.7	1599.5	1639.1	1660.3
12.5°	1338.0	1336.9	1340.3	1354.2	1382.1	1416.6	1456.2	1497.5	1542.6	1588.9	1614.6
15°	1312.9	1306.8	1294.0	1290.6	1305.7	1340.3	1386.0	1436.7	1490.8	1546.5	1578.3
17.5°	1328.6	1318.0	1282.8	1257.2	1255.0	1281.2	1329.7	1386.5	1449.0	1517.0	1556.6
20°	1426.7	1401.6	1315.2	1255.5	1234.9	1247.7	1290.1	1350.3	1423.9	1514.2	1564.9
22.5°	1661.4	1624.6	1441.2	1330.2	1260.5	1244.9	1276.7	1340.8	1426.7	1548.8	1613.4
25°	2003.2	1950.7	1657.5	1516.4	1372.6	1289.5	1296.8	1362.6	1466.3	1629.1	1707.1
27.5°	2273.0	2239.0	1940.2	1779.0	1576.7	1410.0	1362.0	1417.2	1547.1	1760.6	1840.4
30°	2433.6	2412.9	2242.3	2076.7	1837.0	1601.7	1486.9	1519.8	1673.7	1942.9	2008.7
32.5°	2619.8	2607.5	2523.9	2371.7	2118.0	1853.7	1684.8	1673.1	1843.1	2162.0	2192.1
35°	2812.7	2808.8	2759.7	2650.4	2419.6	2186.0	1947.4	1868.2	2027.7	2389.5	2370.6
37.5°	2992.2	2985.5	2957.1	2893.5	2735.2	2542.8	2215.0	2068.4	2226.7	2606.9	2522.8
40°	3322.8	3270.4	3172.8	3124.9	3054.1	2843.3	2427.4	2255.1	2433.0	2814.3	2654.3
42.5°	3725.9	3640.6	3458.8	3393.0	3383.0	3080.3	2572.4	2436.3	2640.9	3020.1	2783.7
45°	4043.1	3962.8	3806.2	3723.1	3759.9	3294.9	2717.9	2629.8	2855.0	3235.8	2916.9
47.5°	4381.5	4255.5	4048.1	4073.2	4153.5	3497.8	2866.2	2837.8	3089.7	3477.2	3082.5
50°	4393.8	4297.3	4206.5	4356.4	4481.3	3684.6	3051.8	3055.7	3376.9	3781.1	3302.7
52.5°	4139.0	4118.4	4262.8	4498.6	4678.7	3832.4	3263.1	3281.0	3744.3	4130.1	3544.7
55°	4049.8	4026.4	4193.1	4449.0	4705.4	3954.5	3492.3	3524.6	4188.6	4498.0	3780.5
57.5°	4267.2	4215.4	4226.5	4425.6	4640.2	4088.3	3742.0	3807.3	4671.4	4819.7	3932.2
60°	4874.9	4764.0	4553.2	4548.2	4675.3	4289.0	4030.8	4110.6	5173.2	4973.6	3873.1
62.5°	5727.4	5616.4	5221.7	4964.7	4945.7	4620.1	4385.4	4406.6	5463.1	4765.1	3512.3
65°	6650.0	6550.8	6109.8	5746.9	5571.8	5168.7	4797.4	4538.7	5368.3	4191.4	2881.2
67.5°	7770.1	7663.6	7284.5	6949.4	6781.1	6054.1	5086.8	4412.2	4766.8	3247.0	2071.2
70°	8553.4	8444.7	8295.3	8566.8	8978.8	7331.3	5124.1	3897.6	3560.3	2158.1	1246.6
72.5°	7531.5	7480.7	7753.4	8896.8	10612.9	8106.3	4631.8	2837.8	2067.8	1145.7	721.4
73°	6900.4	6889.2	7354.2	8665.5	10624.6	7987.0	4416.1	2637.6	1773.5	1013.6	659.5
75°	3116.0	3205.7	4224.8	6618.8	9230.8	6581.5	3108.1	1513.1	1001.9	700.2	497.9
77.5°	748.7	780.0	1321.9	3143.3	5829.4	3922.1	1408.3	748.2	640.6	494.5	363.5
80°	318.9	329.5	509.0	1161.3	2744.6	1579.4	648.9	501.2	443.2	345.1	254.8
82.5°	177.3	188.4	288.8	526.9	1107.8	538.6	395.8	349.0	291.6	208.0	165.6
85°	100.4	106.5	168.9	294.4	469.4	216.3	236.9	231.9	164.5	107.0	81.4
87.5°	47.4	51.3	81.4	136.6	184.0	84.7	120.4	132.7	103.1	65.2	42.4
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°	1752.3	1752.3	1752.3	1752.3	1752.3	1752.3	1752.3	1752.3	1752.3	1752.3
2.5°	1751.2	1761.2	1772.9	1779.0	1784.6	1791.3	1798.0	1798.0	1799.1	1799.7
5°	1738.9	1759.5	1777.9	1785.7	1787.4	1787.4	1785.7	1776.8	1769.0	1772.3
7.5°	1713.2	1743.3	1759.0	1756.2	1735.0	1710.5	1689.8	1664.7	1651.9	1649.7
10°	1676.4	1711.0	1713.8	1685.9	1633.5	1581.1	1537.6	1495.3	1475.2	1470.2
12.5°	1635.7	1667.5	1649.7	1592.3	1508.1	1431.7	1376.5	1333.6	1314.6	1309.6
15°	1602.9	1624.6	1579.4	1489.1	1383.2	1302.4	1256.6	1224.9	1211.5	1207.6
17.5°	1585.6	1590.0	1507.5	1385.4	1272.8	1205.3	1176.9	1161.9	1156.8	1154.1
20°	1593.9	1562.7	1438.9	1289.0	1182.5	1135.1	1128.4	1124.5	1123.4	1121.7
22.5°	1635.7	1554.4	1375.9	1197.5	1103.3	1082.7	1088.3	1087.7	1086.6	1085.5
25°	1710.5	1561.6	1314.6	1110.6	1037.0	1032.5	1042.6	1042.6	1038.1	1038.1
27.5°	1809.1	1576.7	1246.0	1028.1	976.8	977.3	985.1	982.9	977.9	974.5
30°	1929.6	1586.1	1165.8	953.9	920.5	918.2	920.5	911.0	895.9	894.8
32.5°	2052.8	1574.4	1072.7	888.1	860.8	855.8	854.1	840.7	823.4	818.4
35°	2164.3	1531.5	977.9	835.7	803.9	792.8	800.6	796.1	780.5	776.6
37.5°	2245.7	1451.8	892.6	789.4	763.2	760.5	765.5	767.1	748.7	744.8
40°	2300.3	1343.6	819.5	750.4	755.4	744.8	728.1	716.4	710.8	709.2
42.5°	2344.4	1231.0	758.2	732.0	757.1	726.4	690.2	671.2	681.3	685.7
45°	2395.1	1121.2	706.9	709.2	748.7	705.3	664.0	645.6	649.5	650.6
47.5°	2464.8	987.4	651.7	672.4	720.9	690.8	647.8	621.6	603.2	594.9
50°	2561.2	829.0	594.3	631.1	693.5	680.2	622.7	594.9	560.9	553.1
52.5°	2628.1	681.3	546.9	596.5	669.0	659.0	602.7	566.4	530.8	524.1
55°	2591.9	565.9	505.7	558.1	636.7	632.8	585.9	537.4	509.6	504.0
57.5°	2410.7	492.8	473.9	521.8	597.1	610.5	563.6	512.9	492.8	488.9
60°	2065.0	447.1	453.8	497.3	564.8	588.2	541.3	499.5	486.2	483.4
62.5°	1602.3	416.5	438.8	479.5	539.7	572.6	529.1	497.9	492.8	489.5
65°	1147.9	391.9	422.6	461.6	516.8	558.1	524.6	495.6	496.7	494.0
67.5°	780.0	370.2	403.1	441.6	494.5	545.2	518.5	487.8	501.8	498.4
70°	545.8	349.0	380.2	415.9	466.6	527.4	507.3	476.1	475.0	461.6
72.5°	425.9	321.1	349.0	380.2	431.0	502.3	485.0	449.9	431.5	417.6
73°	406.4	314.4	341.2	372.4	423.2	496.2	478.9	442.7	422.0	409.2
75°	336.2	285.4	310.0	337.9	389.7	467.2	448.8	409.8	383.6	375.8
77.5°	264.3	244.2	267.6	292.7	343.4	424.8	404.2	366.8	352.3	345.7
80°	195.7	202.4	223.0	245.3	297.7	379.7	361.3	323.9	388.6	372.4
82.5°	137.7	153.3	172.3	192.3	249.8	335.6	313.3	274.9	284.3	236.4
85°	81.4	100.4	118.2	135.5	180.1	278.2	258.7	219.1	179.5	171.2
87.5°	47.4	55.8	60.8	78.6	123.8	209.6	182.3	162.2	93.1	63.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)