

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: P300435

Luminaire Tested: **GLNA-AF-04-LED-E1-T4FT-7030-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P300435
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-04-LED-E1-T4FT-7030-600
Description: GALLEONAIRE AREA AND ROADWAY LUMINAIRE
(4) 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: 15340.1 lumens
Efficiency: N/A
Efficacy: 118.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B2 - U0 - G3

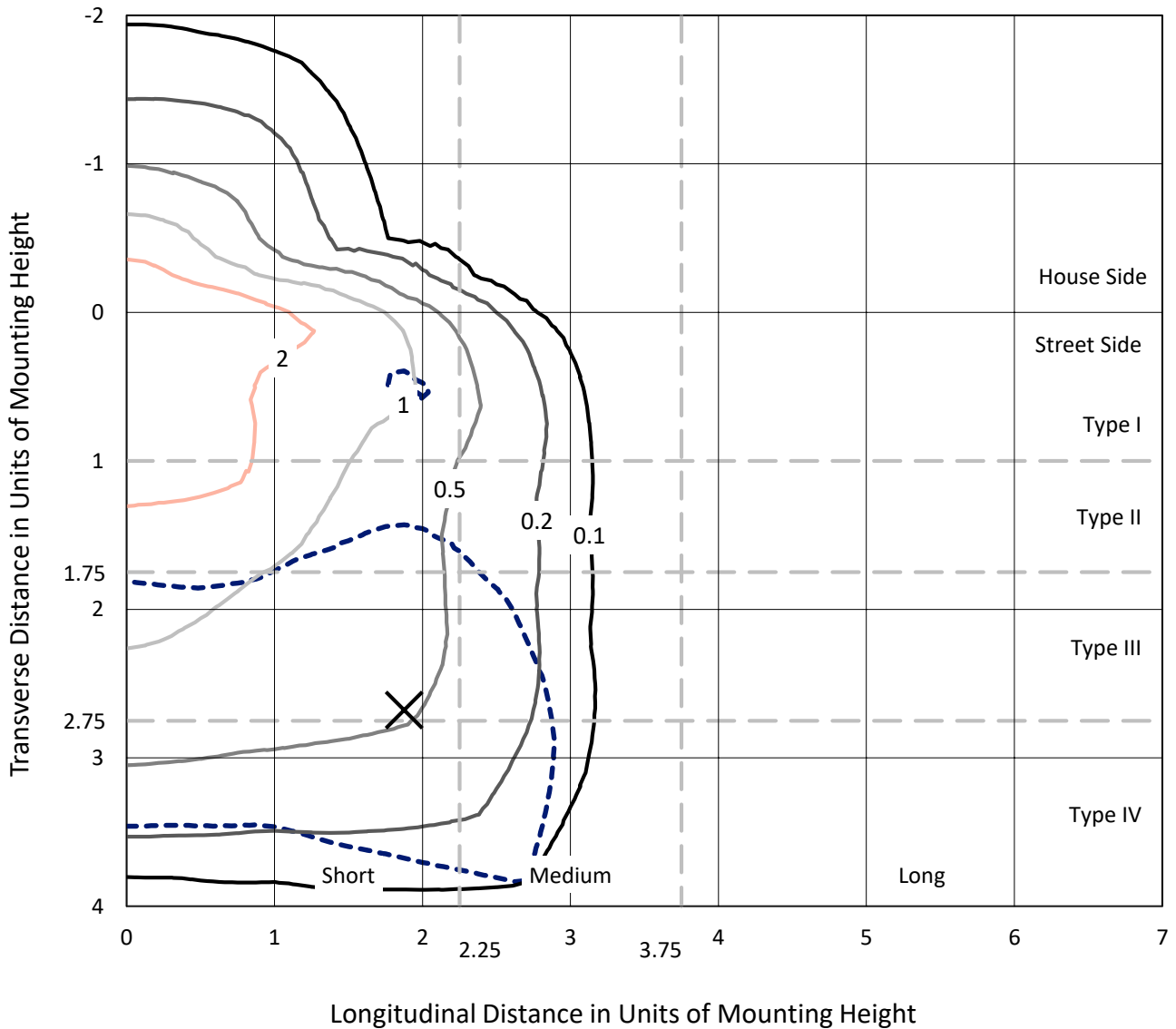
Input Watts (W): 129
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

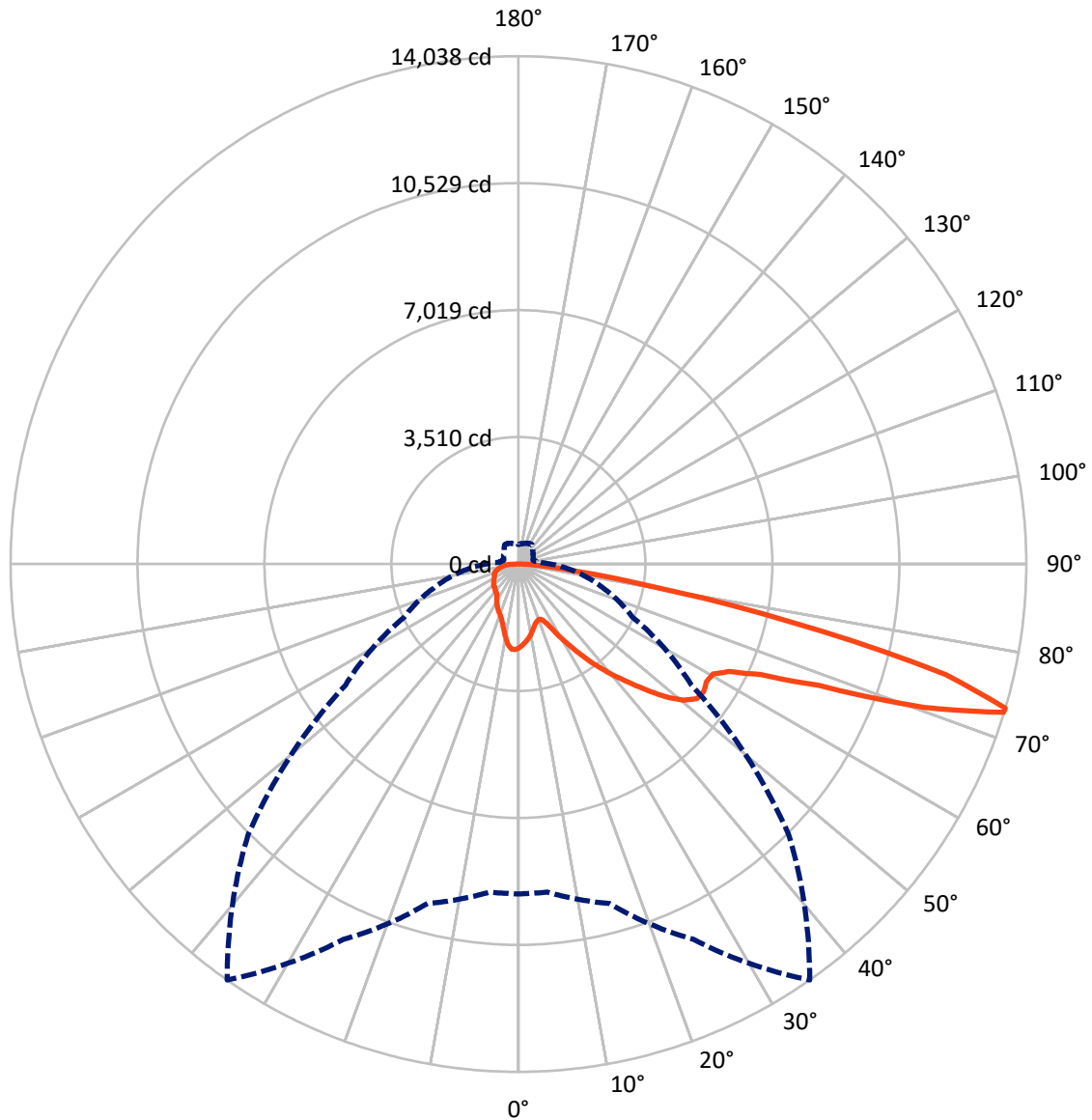
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.7 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	2925.8	0.0	2925.8
	% Fixture	19.1	0.0	19.1
Street Side	Lumens	12414.3	0.0	12414.3
	% Fixture	80.9	0.0	80.9
Total	Lumens	15340.1	0.0	15340.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	209.6	1.4
10°-20°	523.1	3.4
20°-30°	845.7	5.5
30°-40°	1418.2	9.2
40°-50°	2186.0	14.3
50°-60°	2932.8	19.1
60°-70°	3907.1	25.5
70°-80°	2979.9	19.4
80°-90°	337.8	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°	15340.1	100.0
0°-180°	15340.1	100.0

Coefficient of Utilization



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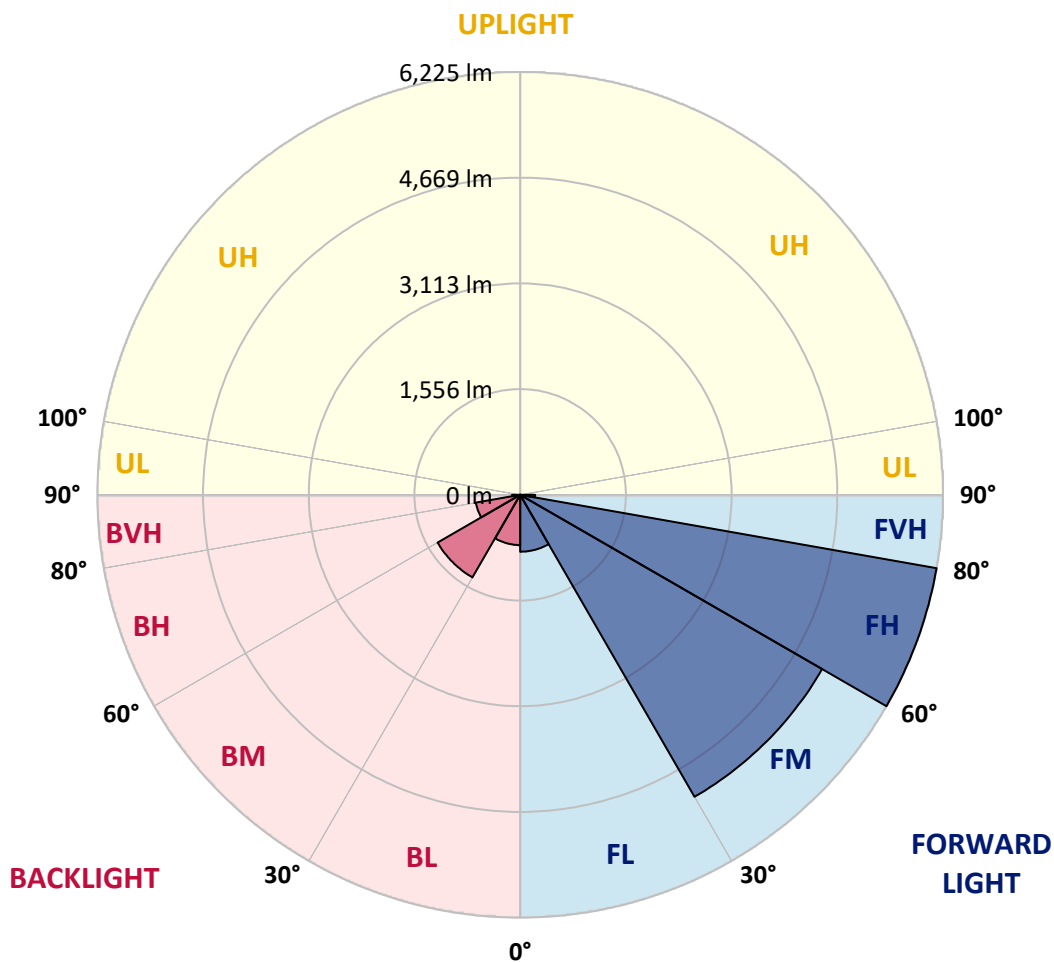
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	838.1	5.5			
FM (30°-60°)	5132.9	33.5			
FH (60°-80°)	6225.0	40.6			G3/7500
FVH (80°-90°)	218.3	1.4			G2/225
BL (0°-30°)	740.4	4.8	B2/1000		
BM (30°-60°)	1404.0	9.2	B2/2500		
BH (60°-80°)	661.9	4.3	B2/1000		G2/1000
BVH (80°-90°)	119.4	0.8			G2/225
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°	2315.3	2315.3	2315.3	2315.3	2315.3	2315.3	2315.3	2315.3	2315.3	2315.3	2315.3
2.5°	2224.0	2228.4	2223.2	2229.8	2240.9	2252.7	2260.8	2272.6	2285.8	2304.2	2308.7
5°	2119.3	2126.0	2126.0	2137.8	2159.1	2178.3	2196.0	2215.1	2243.1	2274.8	2287.3
7.5°	2004.4	2008.1	2014.7	2032.4	2063.4	2090.6	2115.7	2146.6	2184.9	2226.9	2249.0
10°	1865.9	1871.1	1881.4	1906.5	1948.4	1986.0	2022.1	2064.8	2113.5	2165.8	2193.8
12.5°	1768.0	1766.5	1770.9	1789.3	1826.2	1871.8	1924.1	1978.6	2038.3	2099.5	2133.3
15°	1734.8	1726.7	1709.8	1705.4	1725.2	1770.9	1831.3	1898.4	1969.8	2043.5	2085.5
17.5°	1755.4	1741.4	1695.0	1661.2	1658.2	1692.8	1756.9	1832.1	1914.6	2004.4	2056.7
20°	1885.1	1851.9	1737.8	1658.9	1631.7	1648.6	1704.6	1784.2	1881.4	2000.7	2067.8
22.5°	2195.2	2146.6	1904.2	1757.7	1665.6	1644.9	1686.9	1771.6	1885.1	2046.4	2131.9
25°	2646.8	2577.5	2190.1	2003.7	1813.6	1703.9	1713.5	1800.4	1937.4	2152.5	2255.6
27.5°	3003.3	2958.4	2563.6	2350.7	2083.3	1863.0	1799.6	1872.6	2044.2	2326.3	2431.7
30°	3215.5	3188.2	2962.8	2744.0	2427.3	2116.4	1964.7	2008.1	2211.4	2567.2	2654.2
32.5°	3461.5	3445.3	3334.8	3133.7	2798.5	2449.4	2226.2	2210.7	2435.4	2856.7	2896.5
35°	3716.4	3711.3	3646.4	3502.0	3197.1	2888.4	2573.1	2468.5	2679.2	3157.3	3132.2
37.5°	3953.6	3944.8	3907.2	3823.2	3614.0	3359.9	2926.7	2733.0	2942.2	3444.6	3333.4
40°	4390.4	4321.2	4192.3	4128.9	4035.4	3756.9	3207.4	2979.8	3214.8	3718.6	3507.2
42.5°	4923.0	4810.3	4570.2	4483.3	4470.0	4070.0	3398.9	3219.2	3489.5	3990.4	3678.1
45°	5342.2	5236.1	5029.1	4919.4	4968.0	4353.6	3591.2	3474.8	3772.4	4275.5	3854.2
47.5°	5789.4	5622.9	5348.8	5382.0	5488.1	4621.8	3787.1	3749.6	4082.5	4594.5	4073.0
50°	5805.6	5678.1	5558.0	5756.2	5921.2	4868.5	4032.4	4037.6	4461.9	4996.0	4363.9
52.5°	5468.9	5441.7	5632.4	5944.0	6182.0	5063.7	4311.6	4335.2	4947.4	5457.1	4683.6
55°	5351.0	5320.1	5540.4	5878.5	6217.3	5225.1	4614.4	4657.1	5534.5	5943.3	4995.2
57.5°	5638.3	5569.8	5584.6	5847.5	6131.2	5401.9	4944.4	5030.6	6172.4	6368.4	5195.6
60°	6441.3	6294.7	6016.2	6009.6	6177.6	5667.1	5326.0	5431.3	6835.4	6571.7	5117.5
62.5°	7567.6	7421.0	6899.5	6559.9	6534.8	6104.6	5794.5	5822.5	7218.5	6296.2	4640.9
65°	8786.8	8655.7	8073.0	7593.4	7362.1	6829.5	6338.9	5997.1	7093.2	5538.2	3807.0
67.5°	10266.7	10126.0	9625.1	9182.4	8959.9	7999.3	6721.2	5829.9	6298.4	4290.3	2736.7
70°	11301.7	11158.1	10960.7	11319.4	11863.8	9687.0	6770.6	5149.9	4704.3	2851.6	1647.2
72.5°	9951.4	9884.4	10244.6	11755.5	14022.9	10710.9	6120.1	3749.6	2732.2	1513.8	953.2
73°	9117.5	9102.8	9717.2	11449.8	14038.4	10553.3	5835.0	3485.1	2343.3	1339.2	871.5
75°	4117.2	4235.8	5582.4	8745.5	12196.8	8696.2	4106.8	1999.3	1323.8	925.2	657.8
77.5°	989.3	1030.6	1746.6	4153.2	7702.4	5182.4	1860.8	988.6	846.4	653.4	480.3
80°	421.4	435.4	672.6	1534.4	3626.5	2086.9	857.5	662.3	585.6	456.0	336.7
82.5°	234.3	249.0	381.6	696.1	1463.7	711.6	523.0	461.1	385.3	274.8	218.8
85°	132.6	140.7	223.2	389.0	620.3	285.8	313.1	306.4	217.3	141.4	107.6
87.5°	62.6	67.8	107.6	180.5	243.1	112.0	159.1	175.3	136.3	86.2	56.0
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°	2315.3	2315.3	2315.3	2315.3	2315.3	2315.3	2315.3	2315.3	2315.3	2315.3
2.5°	2313.8	2327.1	2342.6	2350.7	2358.0	2366.9	2375.7	2375.7	2377.2	2377.9
5°	2297.6	2324.9	2349.2	2359.5	2361.7	2361.7	2359.5	2347.7	2337.4	2341.8
7.5°	2263.7	2303.5	2324.1	2320.5	2292.5	2260.0	2232.8	2199.6	2182.7	2179.8
10°	2215.1	2260.8	2264.5	2227.6	2158.4	2089.1	2031.7	1975.7	1949.2	1942.6
12.5°	2161.3	2203.3	2179.8	2103.9	1992.6	1891.7	1818.8	1762.1	1737.0	1730.4
15°	2117.9	2146.6	2086.9	1967.6	1827.6	1720.8	1660.4	1618.4	1600.7	1595.6
17.5°	2095.0	2100.9	1991.9	1830.6	1681.8	1592.6	1555.1	1535.2	1528.6	1524.9
20°	2106.1	2064.8	1901.3	1703.1	1562.4	1499.8	1491.0	1485.8	1484.4	1482.1
22.5°	2161.3	2053.8	1818.1	1582.3	1457.8	1430.6	1437.9	1437.2	1435.7	1434.3
25°	2260.0	2063.4	1737.0	1467.4	1370.2	1364.3	1377.5	1377.5	1371.6	1371.6
27.5°	2390.4	2083.3	1646.4	1358.4	1290.6	1291.4	1301.7	1298.7	1292.1	1287.7
30°	2549.6	2095.8	1540.3	1260.4	1216.2	1213.3	1216.2	1203.7	1183.8	1182.3
32.5°	2712.4	2080.3	1417.3	1173.5	1137.4	1130.8	1128.6	1110.9	1088.0	1081.4
35°	2859.7	2023.6	1292.1	1104.2	1062.3	1047.5	1057.8	1051.9	1031.3	1026.2
37.5°	2967.2	1918.2	1179.4	1043.1	1008.5	1004.8	1011.4	1013.6	989.3	984.2
40°	3039.4	1775.3	1082.9	991.5	998.2	984.2	962.1	946.6	939.2	937.0
42.5°	3097.6	1626.5	1001.8	967.2	1000.4	959.9	912.0	886.9	900.2	906.1
45°	3164.7	1481.4	934.1	937.0	989.3	931.9	877.4	853.0	858.2	859.7
47.5°	3256.7	1304.6	861.1	888.4	952.5	912.7	856.0	821.4	797.1	786.0
50°	3384.2	1095.4	785.3	833.9	916.4	898.7	822.8	786.0	741.1	730.8
52.5°	3472.6	900.2	722.7	788.2	884.0	870.7	796.3	748.4	701.3	692.5
55°	3424.7	747.7	668.1	737.4	841.3	836.1	774.2	710.1	673.3	665.9
57.5°	3185.3	651.2	626.2	689.5	789.0	806.6	744.8	677.7	651.2	646.0
60°	2728.6	590.8	599.6	657.1	746.2	777.2	715.3	660.0	642.4	638.7
62.5°	2117.1	550.3	579.7	633.5	713.1	756.5	699.1	657.8	651.2	646.8
65°	1516.8	517.9	558.4	609.9	682.9	737.4	693.2	654.9	656.4	652.7
67.5°	1030.6	489.1	532.6	583.4	653.4	720.4	685.1	644.6	663.0	658.6
70°	721.2	461.1	502.4	549.5	616.6	696.9	670.4	629.1	627.6	609.9
72.5°	562.8	424.3	461.1	502.4	569.4	663.7	640.9	594.5	570.2	551.8
73°	537.0	415.5	450.8	492.1	559.1	655.6	632.8	584.9	557.6	540.7
75°	444.2	377.2	409.6	446.4	514.9	617.3	593.0	541.4	506.8	496.5
77.5°	349.2	322.7	353.6	386.7	453.8	561.3	534.1	484.7	465.6	456.7
80°	258.6	267.4	294.7	324.1	393.4	501.7	477.4	428.0	513.4	492.1
82.5°	182.0	202.6	227.6	254.1	330.0	443.5	414.0	363.2	375.7	312.3
85°	107.6	132.6	156.2	179.0	237.9	367.6	341.8	289.5	237.2	226.2
87.5°	62.6	73.7	80.3	103.9	163.5	277.0	240.9	214.4	123.0	83.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)