

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: P200210

Luminaire Tested: **GPC-AF-02-LED-E1-T4FT-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P200210
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: GPC-AF-02-LED-E1-T4FT-1200
Description: GALLEON PEDESTRIAN LUMINAIRE
(2) 70 CRI, 4000K, 1200mA 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: 14023.6 lumens
Efficiency: N/A
Efficacy: 108.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B2 - U0 - G3

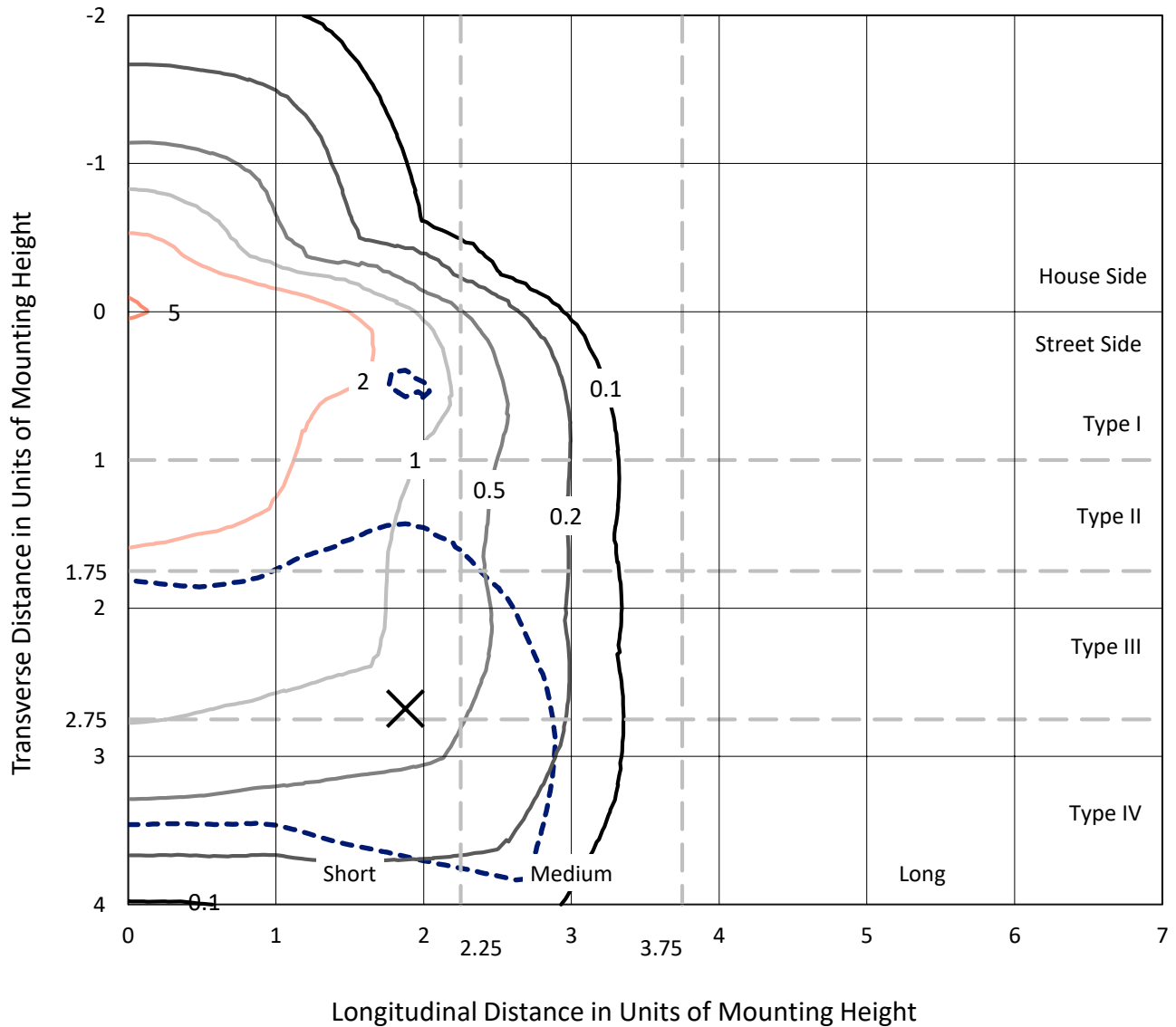
Input Watts (W): 129
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P200210
 CATALOG NUMBER: GPC-AF-02-LED-E1-T4FT-1200

Iso-Footcandle Lines of Horizontal Illumination

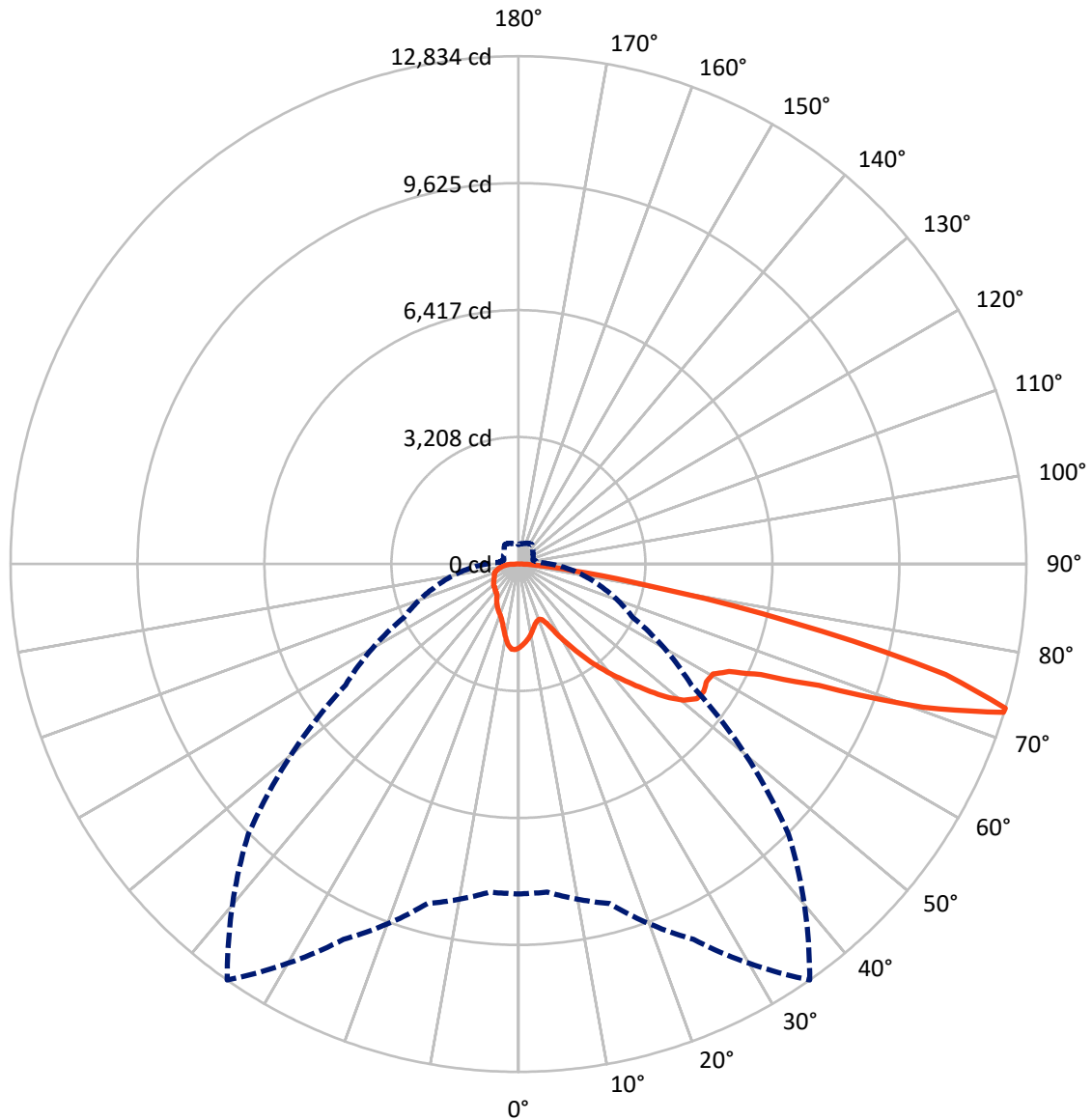
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 5.3 fc
 Type IV - Short - Non-Cutoff

REPORT NUMBER: P200210
CATALOG NUMBER: GPC-AF-02-LED-E1-T4FT-1200

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	2674.7	0.0	2674.7
	% Fixture	19.1	0.0	19.1
Street Side	Lumens	11348.9	0.0	11348.9
	% Fixture	80.9	0.0	80.9
Total	Lumens	14023.6	0.0	14023.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	191.6	1.4
10°-20°	478.2	3.4
20°-30°	773.1	5.5
30°-40°	1296.4	9.2
40°-50°	1998.4	14.3
50°-60°	2681.1	19.1
60°-70°	3571.8	25.5
70°-80°	2724.2	19.4
80°-90°	308.8	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°	14023.6	100.0
0°-180°	14023.6	100.0



REPORT NUMBER: P200210

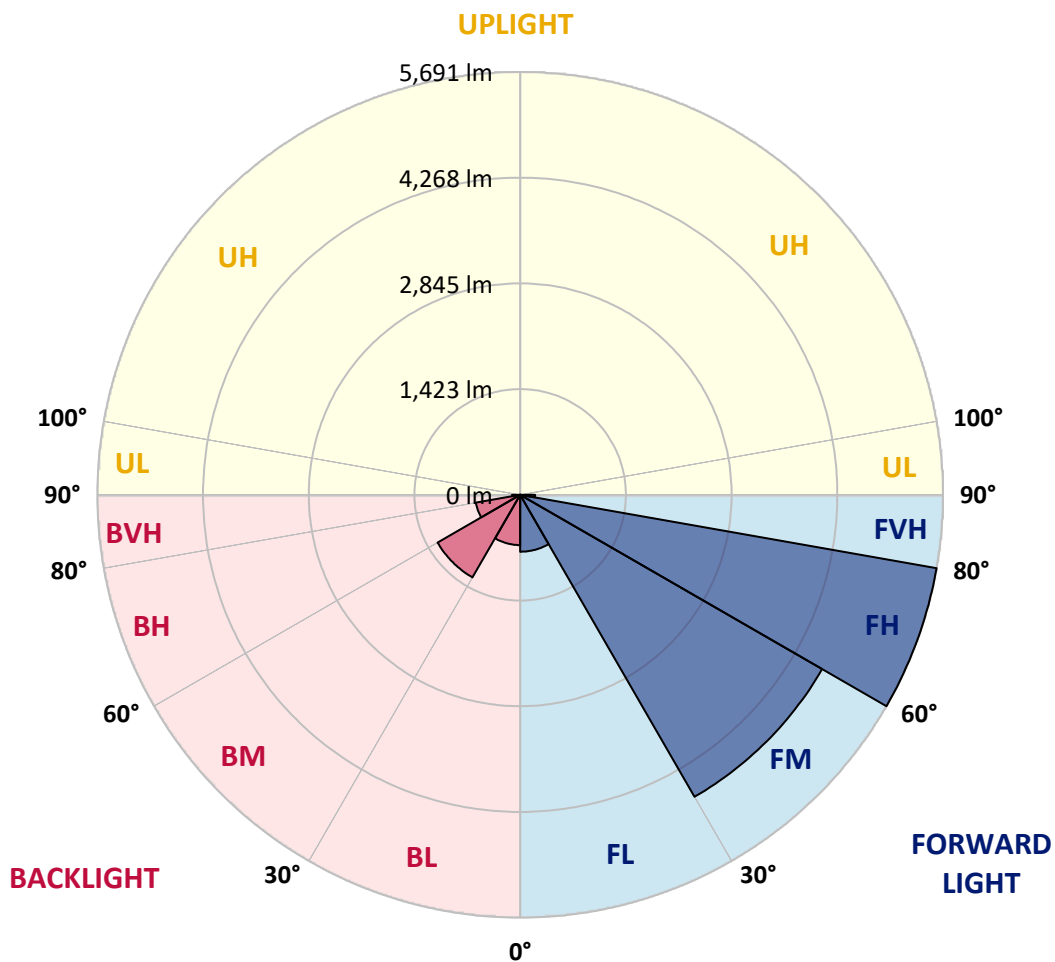
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	766.2	5.5			
FM	(30°-60°)	4692.4	33.5			
FH	(60°-80°)	5690.8	40.6			G3/7500
FVH	(80°-90°)	199.6	1.4			G2/225
BL	(0°-30°)	676.8	4.8	B2/1000		
BM	(30°-60°)	1283.6	9.2	B2/2500		
BH	(60°-80°)	605.1	4.3	B2/1000		G2/1000
BVH	(80°-90°)	109.2	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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 CATALOG NUMBER: GPC-AF-02-LED-E1-T4FT-1200

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2116.6	2116.6	2116.6	2116.6	2116.6	2116.6	2116.6	2116.6	2116.6	2116.6	2116.6
2.5°	2033.1	2037.1	2032.4	2038.4	2048.6	2059.4	2066.8	2077.5	2089.7	2106.5	2110.6
5°	1937.5	1943.5	1943.5	1954.3	1973.8	1991.4	2007.5	2025.0	2050.6	2079.6	2091.0
7.5°	1832.4	1835.8	1841.8	1858.0	1886.3	1911.2	1934.1	1962.4	1997.4	2035.8	2056.0
10°	1705.8	1710.5	1720.0	1742.8	1781.3	1815.5	1848.6	1887.7	1932.0	1979.9	2005.5
12.5°	1616.3	1614.9	1618.9	1635.8	1669.5	1711.2	1759.0	1808.9	1863.4	1919.3	1950.3
15°	1586.0	1578.5	1563.1	1559.0	1577.2	1618.9	1674.2	1735.4	1800.8	1868.1	1906.5
17.5°	1604.8	1592.0	1549.6	1518.6	1515.9	1547.5	1606.1	1674.9	1750.3	1832.4	1880.2
20°	1723.4	1693.0	1588.6	1516.5	1491.7	1507.1	1558.4	1631.1	1720.0	1829.0	1890.3
22.5°	2006.8	1962.4	1740.9	1606.9	1522.7	1503.7	1542.2	1619.6	1723.4	1870.8	1948.9
25°	2419.7	2356.4	2002.1	1831.7	1658.0	1557.6	1566.4	1645.8	1771.1	1967.7	2062.1
27.5°	2745.6	2704.5	2343.6	2148.9	1904.4	1703.1	1645.2	1711.9	1868.8	2126.7	2223.0
30°	2939.6	2914.6	2708.6	2508.6	2219.0	1934.8	1796.1	1835.8	2021.7	2347.0	2426.3
32.5°	3164.5	3149.7	3048.6	2864.8	2558.4	2239.1	2035.2	2020.9	2226.4	2611.6	2647.9
35°	3397.4	3392.7	3333.5	3201.5	2922.7	2640.5	2352.3	2256.6	2449.3	2886.4	2863.4
37.5°	3614.3	3606.2	3571.9	3495.1	3303.8	3071.5	2675.5	2498.5	2689.6	3148.9	3047.3
40°	4013.6	3950.3	3832.5	3774.6	3689.1	3434.6	2932.1	2724.0	2938.8	3399.5	3206.2
42.5°	4500.6	4397.6	4177.9	4098.6	4086.4	3720.7	3107.2	2942.9	3190.1	3647.9	3362.4
45°	4883.8	4786.8	4597.6	4497.2	4541.6	3980.0	3283.0	3176.6	3448.7	3908.6	3523.5
47.5°	5292.5	5140.3	4889.8	4920.1	5017.1	4225.1	3462.1	3427.8	3732.1	4200.2	3723.4
50°	5307.4	5190.9	5081.1	5262.2	5413.0	4450.8	3686.4	3691.1	4079.0	4567.3	3989.4
52.5°	4999.6	4974.6	5149.0	5433.9	5651.5	4629.2	3941.6	3963.1	4522.8	4988.8	4281.7
55°	4891.9	4863.5	5064.9	5374.0	5683.8	4776.7	4218.3	4257.4	5059.5	5433.3	4566.6
57.5°	5154.4	5091.8	5105.3	5345.7	5605.0	4938.3	4520.1	4598.9	5642.7	5821.8	4749.8
60°	5888.5	5754.5	5499.9	5493.9	5647.4	5180.7	4868.9	4965.2	6248.8	6007.7	4678.4
62.5°	6918.2	6784.2	6307.4	5996.9	5974.0	5580.7	5297.2	5322.8	6599.0	5755.8	4242.6
65°	8032.7	7912.8	7380.2	6941.7	6730.3	6243.4	5794.9	5482.4	6484.5	5062.9	3480.3
67.5°	9385.7	9257.0	8799.1	8394.3	8191.0	7312.8	6144.5	5329.6	5757.9	3922.1	2501.8
70°	10331.8	10200.5	10020.0	10348.0	10845.6	8855.7	6189.6	4707.9	4300.6	2606.9	1505.8
72.5°	9097.4	9036.1	9365.4	10746.6	12819.5	9791.7	5594.9	3427.8	2497.7	1384.0	871.5
73°	8335.1	8321.6	8883.3	10467.1	12833.6	9647.7	5334.3	3186.0	2142.2	1224.3	796.7
75°	3763.8	3872.3	5103.3	7995.0	11150.1	7949.9	3754.4	1827.7	1210.2	845.9	601.4
77.5°	904.4	942.1	1596.7	3796.8	7041.4	4737.6	1701.1	903.8	773.8	597.3	439.1
80°	385.2	398.0	614.9	1402.8	3315.3	1907.8	783.9	605.4	535.4	416.9	307.8
82.5°	214.1	227.6	348.8	636.4	1338.1	650.5	478.1	421.6	352.2	251.2	200.0
85°	121.2	128.6	204.1	355.6	567.0	261.3	286.2	280.2	198.7	129.3	98.3
87.5°	57.3	62.0	98.3	165.0	222.2	102.4	145.5	160.3	124.6	78.8	51.1
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°	2116.6	2116.6	2116.6	2116.6	2116.6	2116.6	2116.6	2116.6	2116.6	2116.6
2.5°	2115.3	2127.3	2141.5	2148.9	2155.7	2163.7	2171.8	2171.8	2173.2	2173.9
5°	2100.4	2125.4	2147.6	2157.0	2159.0	2159.0	2157.0	2146.3	2136.8	2140.8
7.5°	2069.4	2105.8	2124.7	2121.3	2095.7	2066.1	2041.2	2010.9	1995.4	1992.7
10°	2025.0	2066.8	2070.1	2036.5	1973.2	1909.8	1857.4	1806.1	1781.9	1775.8
12.5°	1975.8	2014.2	1992.7	1923.4	1821.7	1729.4	1662.7	1610.8	1587.9	1581.9
15°	1936.1	1962.4	1907.8	1798.8	1670.8	1573.1	1518.0	1479.5	1463.3	1458.6
17.5°	1915.3	1920.6	1821.0	1673.4	1537.5	1456.0	1421.6	1403.4	1397.4	1394.0
20°	1925.3	1887.7	1738.1	1556.9	1428.3	1371.1	1363.0	1358.3	1356.9	1354.9
22.5°	1975.8	1877.5	1662.0	1446.6	1332.7	1307.8	1314.5	1313.9	1312.5	1311.2
25°	2066.1	1886.3	1587.9	1341.5	1252.6	1247.2	1259.4	1259.4	1253.9	1253.9
27.5°	2185.3	1904.4	1505.2	1241.9	1179.9	1180.5	1190.0	1187.2	1181.2	1177.2
30°	2330.8	1915.9	1408.2	1152.3	1111.8	1109.2	1111.8	1100.4	1082.2	1080.8
32.5°	2479.6	1901.8	1295.7	1072.8	1039.8	1033.7	1031.7	1015.6	994.6	988.6
35°	2614.3	1849.9	1181.2	1009.4	971.1	957.6	967.1	961.7	942.9	938.0
37.5°	2712.6	1753.6	1078.2	953.6	921.9	918.6	924.6	926.7	904.4	899.7
40°	2778.5	1623.0	989.9	906.4	912.5	899.7	879.5	865.3	858.7	856.6
42.5°	2831.8	1487.0	915.8	884.2	914.5	877.5	833.7	810.8	823.0	828.3
45°	2893.1	1354.3	854.0	856.6	904.4	851.9	802.1	779.8	784.5	785.9
47.5°	2977.3	1192.7	787.3	812.1	870.7	834.4	782.6	750.8	728.6	718.5
50°	3093.7	1001.4	717.9	762.3	837.8	821.6	752.2	718.5	677.5	668.1
52.5°	3174.5	823.0	660.6	720.6	808.1	796.0	727.9	684.3	641.1	633.0
55°	3130.8	683.5	610.8	674.1	769.1	764.3	707.8	649.2	615.5	608.8
57.5°	2911.9	595.4	572.4	630.3	721.3	737.4	680.9	619.6	595.4	590.7
60°	2494.4	540.1	548.2	600.7	682.2	710.4	653.9	603.4	587.3	583.9
62.5°	1935.4	503.1	530.0	579.2	651.9	691.6	639.0	601.4	595.4	591.3
65°	1386.6	473.4	510.5	557.6	624.3	674.1	633.7	598.7	600.1	596.7
67.5°	942.1	447.1	486.9	533.4	597.3	658.6	626.3	589.2	606.1	602.0
70°	659.3	421.6	459.3	502.4	563.6	637.1	612.8	575.1	573.8	557.6
72.5°	514.5	387.9	421.6	459.3	520.6	606.8	585.8	543.5	521.2	504.4
73°	490.9	379.8	412.1	449.9	511.2	599.3	578.5	534.7	509.8	494.3
75°	406.1	344.8	374.4	408.1	470.8	564.4	542.2	495.0	463.3	453.9
77.5°	319.2	294.9	323.3	353.5	414.8	513.1	488.3	443.1	425.6	417.6
80°	236.4	244.5	269.3	296.3	359.6	458.6	436.4	391.3	469.4	449.9
82.5°	166.3	185.2	208.1	232.3	301.7	405.4	378.5	332.0	343.4	285.5
85°	98.3	121.2	142.8	163.7	217.5	336.0	312.5	264.6	216.9	206.7
87.5°	57.3	67.3	73.4	94.9	149.5	253.2	220.2	196.0	112.4	76.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)