

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: P191521

Luminaire Tested: **GLEON-AF-03-LED-E1-T4FT-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191521
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-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 4000K, 800mA 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: 15109 lumens
Efficiency: N/A
Efficacy: 121.8 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

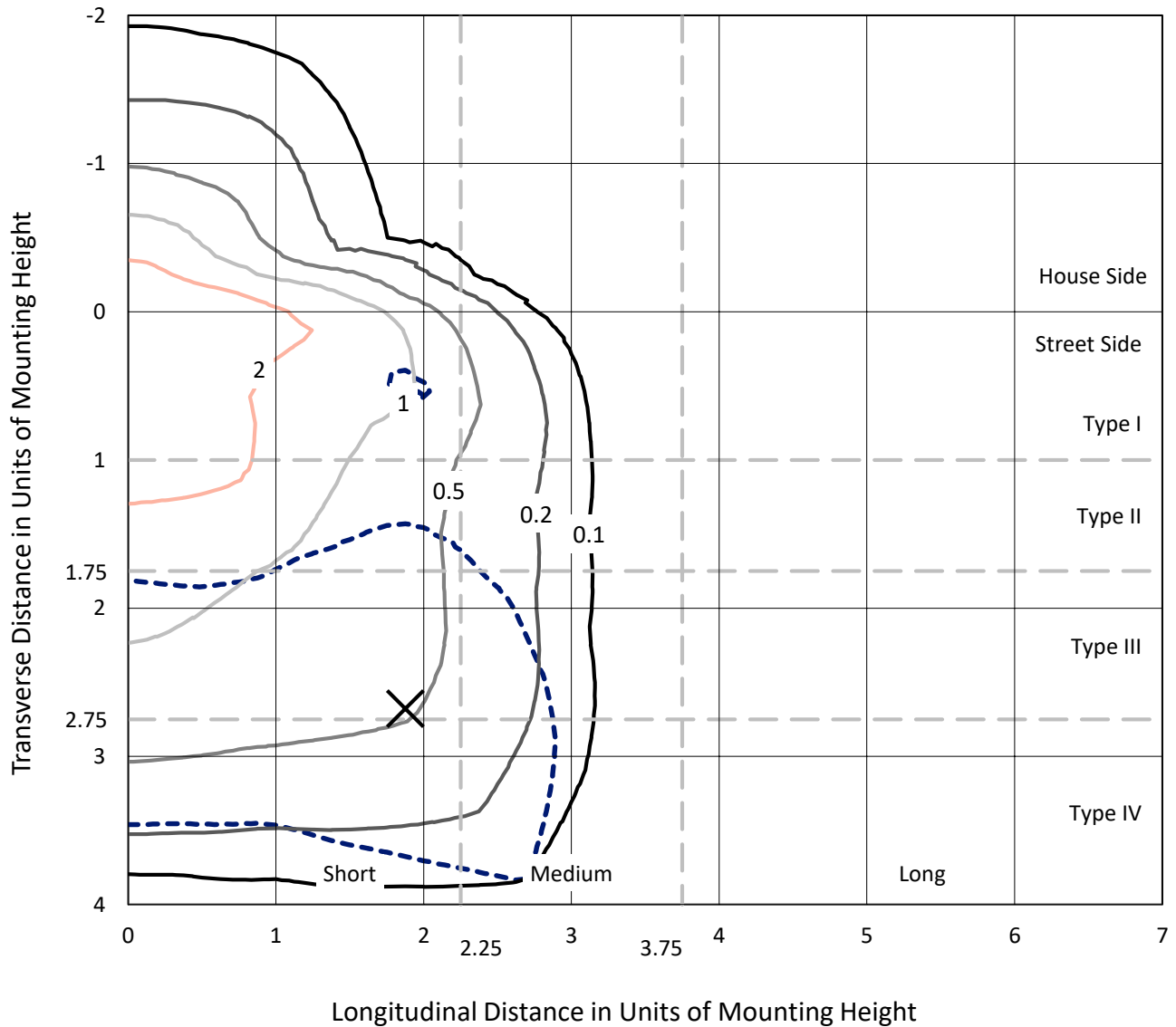
Input Watts (W): 124
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

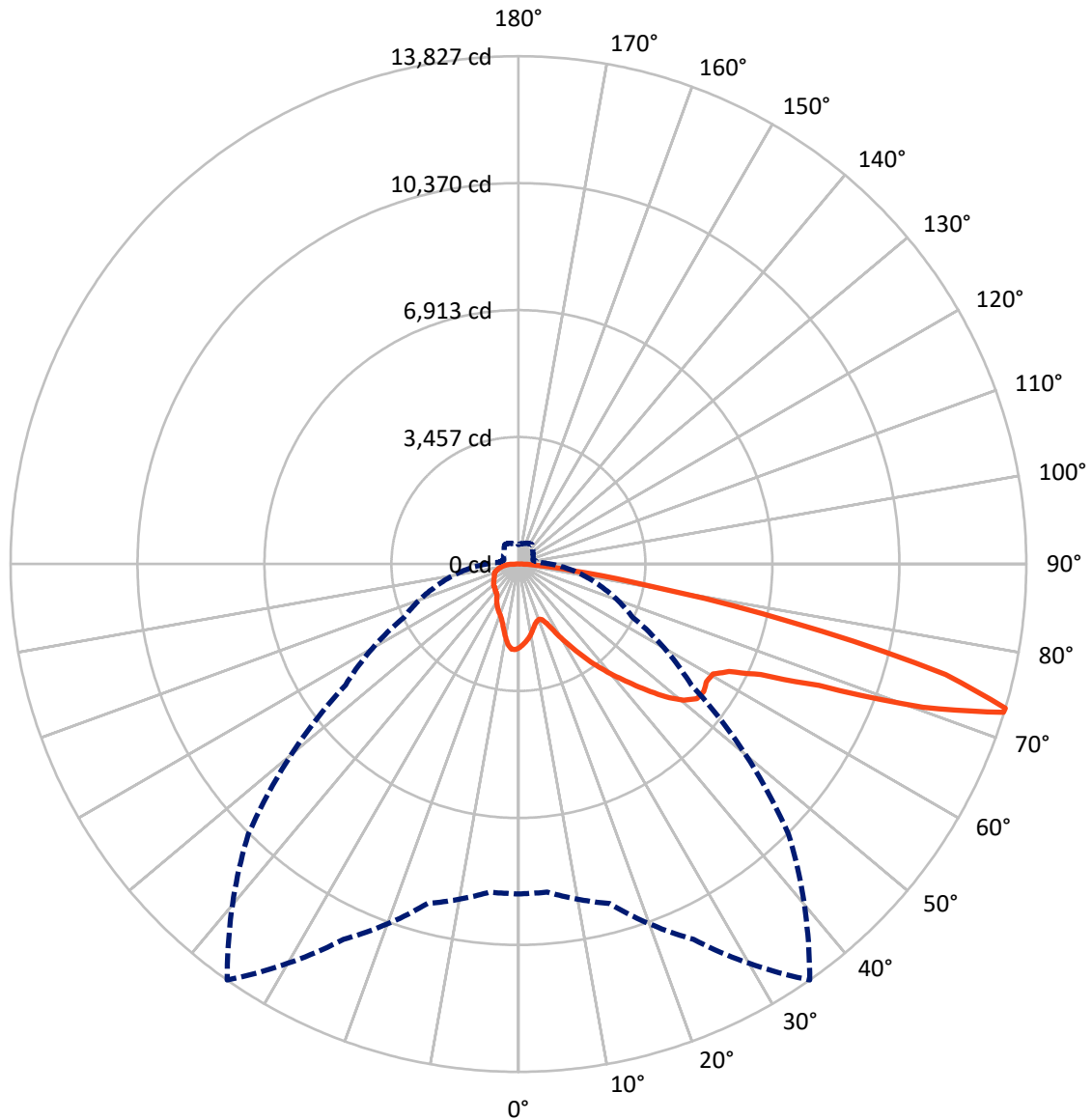
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.6 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	2881.7	0.0	2881.7
	% Fixture	19.1	0.0	19.1
Street Side	Lumens	12227.3	0.0	12227.3
	% Fixture	80.9	0.0	80.9
Total	Lumens	15109.0	0.0	15109.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	206.4	1.4
10°-20°	515.2	3.4
20°-30°	833.0	5.5
30°-40°	1396.8	9.2
40°-50°	2153.1	14.3
50°-60°	2888.6	19.1
60°-70°	3848.2	25.5
70°-80°	2935.0	19.4
80°-90°	332.7	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°	15109.0	100.0
0°-180°	15109.0	100.0

Coefficient of Utilization



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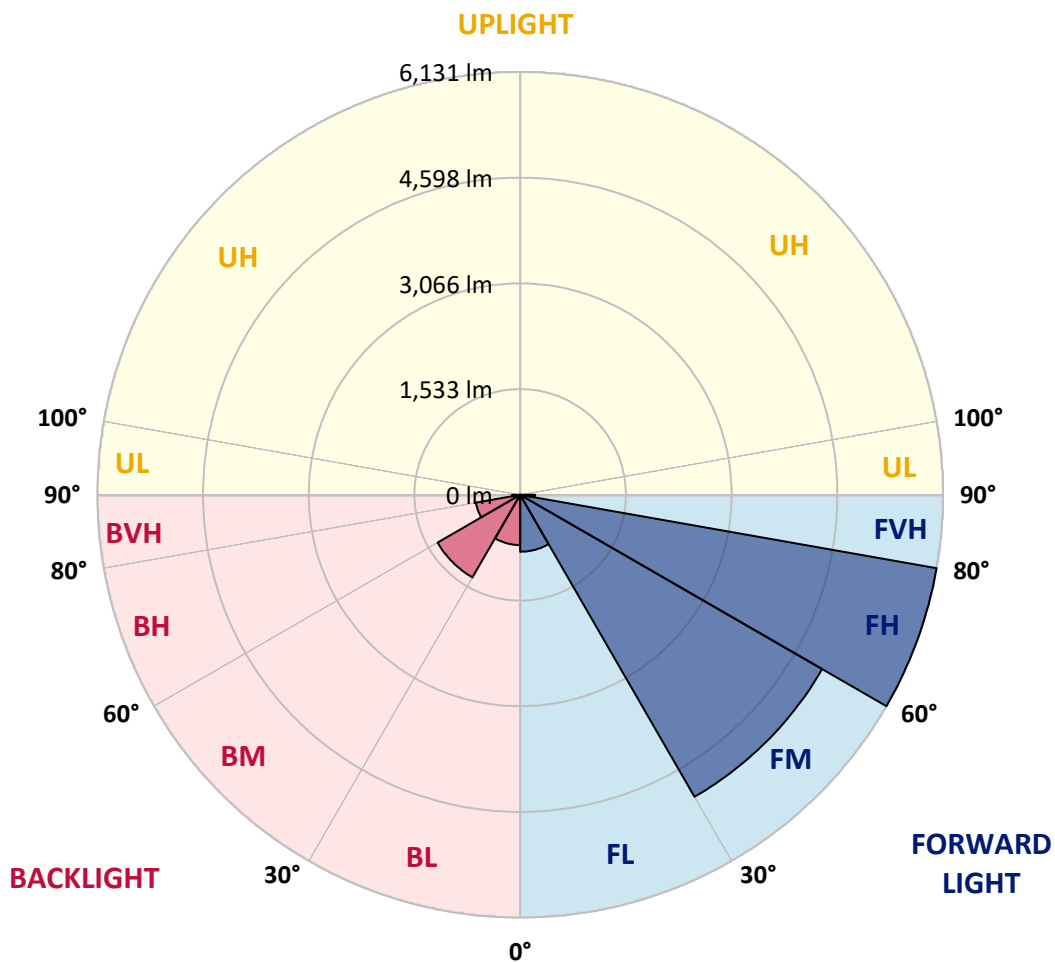
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	825.5	5.5			
FM	(30°-60°)	5055.6	33.5			
FH	(60°-80°)	6131.2	40.6			G3/7500
FVH	(80°-90°)	215.0	1.4			G2/225
BL	(0°-30°)	729.2	4.8	B2/1000		
BM	(30°-60°)	1382.9	9.2	B2/2500		
BH	(60°-80°)	652.0	4.3	B2/1000		G2/1000
BVH	(80°-90°)	117.6	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°	2280.5	2280.5	2280.5	2280.5	2280.5	2280.5	2280.5	2280.5	2280.5	2280.5	2280.5
2.5°	2190.4	2194.8	2189.7	2196.3	2207.1	2218.8	2226.8	2238.3	2251.4	2269.5	2273.9
5°	2087.4	2094.0	2094.0	2105.5	2126.6	2145.4	2162.8	2181.7	2209.3	2240.5	2252.8
7.5°	1974.2	1977.9	1984.4	2001.8	2032.3	2059.1	2083.8	2114.2	2152.0	2193.3	2215.1
10°	1837.8	1842.9	1853.1	1877.7	1919.1	1956.1	1991.7	2033.7	2081.6	2133.2	2160.7
12.5°	1741.4	1739.8	1744.2	1762.3	1798.7	1843.7	1895.1	1948.8	2007.6	2067.8	2101.2
15°	1708.6	1700.7	1684.0	1679.7	1699.2	1744.2	1803.8	1869.7	1940.1	2012.7	2054.1
17.5°	1729.0	1715.2	1669.5	1636.1	1633.2	1667.3	1730.4	1804.5	1885.7	1974.2	2025.7
20°	1856.7	1824.0	1711.6	1634.0	1607.1	1623.8	1679.0	1757.3	1853.1	1970.6	2036.6
22.5°	2162.1	2114.2	1875.6	1731.1	1640.5	1620.1	1661.5	1744.9	1856.7	2015.6	2099.7
25°	2606.9	2538.8	2157.1	1973.5	1786.3	1678.3	1687.7	1773.3	1908.2	2120.1	2221.6
27.5°	2958.1	2913.8	2524.9	2315.2	2051.8	1835.0	1772.6	1844.4	2013.4	2291.3	2395.0
30°	3167.1	3140.2	2918.2	2702.6	2390.7	2084.5	1935.0	1977.9	2178.1	2528.5	2614.2
32.5°	3409.4	3393.4	3284.6	3086.5	2756.3	2412.4	2192.6	2177.4	2398.7	2813.7	2852.9
35°	3660.4	3655.3	3591.5	3449.3	3148.9	2844.9	2534.4	2431.3	2638.8	3109.8	3085.0
37.5°	3894.1	3885.4	3848.3	3765.6	3559.6	3309.2	2882.7	2691.8	2897.8	3392.7	3283.2
40°	4324.3	4256.1	4129.1	4066.7	3974.6	3700.3	3159.1	2934.8	3166.3	3662.6	3454.4
42.5°	4848.9	4737.9	4501.3	4415.7	4402.7	4008.6	3347.7	3170.6	3436.9	3930.3	3622.7
45°	5261.8	5157.2	4953.3	4845.2	4893.2	4288.0	3537.1	3422.5	3715.6	4211.1	3796.1
47.5°	5702.1	5538.2	5268.2	5300.9	5405.4	4552.1	3730.1	3693.1	4021.0	4525.2	4011.6
50°	5718.1	5592.6	5474.3	5669.5	5832.0	4795.2	3971.7	3976.7	4394.7	4920.7	4298.1
52.5°	5386.6	5359.6	5547.6	5854.4	6088.8	4987.5	4246.7	4269.9	4872.8	5374.9	4613.1
55°	5270.4	5240.0	5456.9	5789.9	6123.7	5146.4	4544.9	4586.9	5451.1	5853.7	4920.0
57.5°	5553.4	5485.9	5500.4	5759.4	6038.8	5320.5	4870.0	4954.8	6079.4	6272.4	5117.3
60°	6344.2	6199.9	5925.6	5919.1	6084.5	5581.7	5245.8	5349.5	6732.4	6472.6	5040.4
62.5°	7453.6	7309.2	6795.6	6461.1	6436.4	6012.7	5707.2	5734.8	7109.7	6201.3	4571.0
65°	8654.4	8525.3	7951.3	7479.0	7251.2	6726.6	6243.4	5906.7	6986.3	5454.7	3749.6
67.5°	10112.1	9973.5	9480.1	9044.0	8824.9	7878.8	6619.9	5742.0	6203.5	4225.6	2695.5
70°	11131.4	10990.0	10795.5	11148.8	11685.1	9541.1	6668.5	5072.3	4633.4	2808.6	1622.3
72.5°	9801.5	9735.5	10090.3	11578.4	13811.7	10549.6	6027.9	3693.1	2691.1	1491.1	938.9
73°	8980.2	8965.7	9570.7	11277.3	13826.9	10394.3	5747.1	3432.6	2308.0	1319.1	858.4
75°	4055.1	4171.9	5498.3	8613.8	12013.0	8565.2	4045.0	1969.2	1303.9	911.2	647.9
77.5°	974.5	1015.1	1720.3	4090.7	7586.4	5104.3	1832.7	973.6	833.7	643.5	473.0
80°	415.0	428.8	662.5	1511.3	3571.9	2055.5	844.5	652.2	576.8	449.1	331.5
82.5°	230.7	245.2	375.8	685.7	1441.6	700.9	515.2	454.2	379.5	270.7	215.5
85°	130.6	138.6	219.8	383.1	610.9	281.5	308.3	301.9	214.0	139.3	106.0
87.5°	61.7	66.8	106.0	177.8	239.5	110.3	156.7	172.7	134.2	84.9	55.1
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°	2280.5	2280.5	2280.5	2280.5	2280.5	2280.5	2280.5	2280.5	2280.5	2280.5
2.5°	2278.9	2292.0	2307.3	2315.2	2322.5	2331.2	2339.9	2339.9	2341.3	2342.0
5°	2263.0	2289.9	2313.8	2323.9	2326.1	2326.1	2323.9	2312.4	2302.2	2306.5
7.5°	2229.6	2268.8	2289.2	2285.5	2258.0	2226.0	2199.1	2166.5	2149.8	2146.9
10°	2181.7	2226.8	2230.3	2194.0	2125.9	2057.7	2001.1	1946.0	1919.8	1913.3
12.5°	2128.8	2170.1	2146.9	2072.2	1962.6	1863.2	1791.4	1735.5	1710.9	1704.3
15°	2086.0	2114.2	2055.5	1938.0	1800.1	1694.9	1635.4	1594.1	1576.7	1571.6
17.5°	2063.5	2069.3	1961.9	1803.0	1656.5	1568.7	1531.7	1512.0	1505.5	1501.9
20°	2074.3	2033.7	1872.6	1677.4	1538.9	1477.2	1468.5	1463.4	1462.0	1459.9
22.5°	2128.8	2022.9	1790.7	1558.5	1435.9	1409.0	1416.3	1415.6	1414.1	1412.7
25°	2226.0	2032.3	1710.9	1445.3	1349.6	1343.7	1356.7	1356.7	1351.0	1351.0
27.5°	2354.4	2051.8	1621.6	1337.9	1271.2	1271.9	1282.1	1279.2	1272.7	1268.3
30°	2511.1	2064.2	1517.1	1241.5	1197.9	1195.0	1197.9	1185.6	1166.0	1164.5
32.5°	2671.5	2049.0	1395.9	1155.8	1120.2	1113.7	1111.5	1094.1	1071.6	1065.1
35°	2816.6	1993.1	1272.7	1087.6	1046.3	1031.7	1041.9	1036.0	1015.8	1010.7
37.5°	2922.6	1889.4	1161.6	1027.3	993.3	989.7	996.1	998.4	974.5	969.3
40°	2993.7	1748.6	1066.5	976.6	983.2	969.3	947.6	932.3	925.1	922.9
42.5°	3051.0	1602.0	986.7	952.7	985.3	945.4	898.3	873.6	886.6	892.4
45°	3116.9	1459.1	920.0	922.9	974.5	917.8	864.1	840.1	845.3	846.7
47.5°	3207.7	1284.9	848.1	875.0	938.1	899.0	843.1	808.9	785.0	774.2
50°	3333.2	1078.9	773.5	821.3	902.5	885.2	810.5	774.2	729.9	719.7
52.5°	3420.2	886.6	711.8	776.3	870.6	857.6	784.3	737.1	690.7	682.0
55°	3373.1	736.4	658.1	726.3	828.6	823.5	762.5	699.4	663.2	655.9
57.5°	3137.3	641.4	616.7	679.1	777.0	794.5	733.6	667.5	641.4	636.3
60°	2687.5	581.9	590.5	647.2	735.0	765.5	704.5	650.1	632.7	629.0
62.5°	2085.3	542.0	571.0	624.0	702.4	745.1	688.5	647.9	641.4	637.0
65°	1493.9	510.0	549.9	600.8	672.6	726.3	682.7	645.0	646.5	642.8
67.5°	1015.1	481.8	524.6	574.6	643.5	709.6	674.7	634.8	652.9	648.7
70°	710.3	454.2	494.8	541.2	607.3	686.4	660.2	619.6	618.2	600.8
72.5°	554.3	417.9	454.2	494.8	560.9	653.8	631.3	585.5	561.6	543.4
73°	529.0	409.2	444.1	484.7	550.7	645.8	623.3	576.1	549.2	532.5
75°	437.5	371.4	403.5	439.7	507.2	608.0	584.1	533.3	499.2	489.1
77.5°	343.9	317.8	348.3	380.9	446.9	552.9	526.0	477.4	458.6	449.9
80°	254.7	263.4	290.2	319.3	387.5	494.1	470.1	421.6	505.7	484.7
82.5°	179.2	199.6	224.2	250.3	325.1	436.8	407.7	357.7	370.0	307.6
85°	106.0	130.6	153.9	176.4	234.4	362.0	336.7	285.1	233.6	222.7
87.5°	61.7	72.5	79.1	102.3	161.1	272.8	237.2	211.1	121.1	81.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)