

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: P191540

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191540
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-1200
Description: GALLEON AREA AND ROADWAY 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: 13748.5 lumens
Efficiency: N/A
Efficacy: 106.6 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 - G3

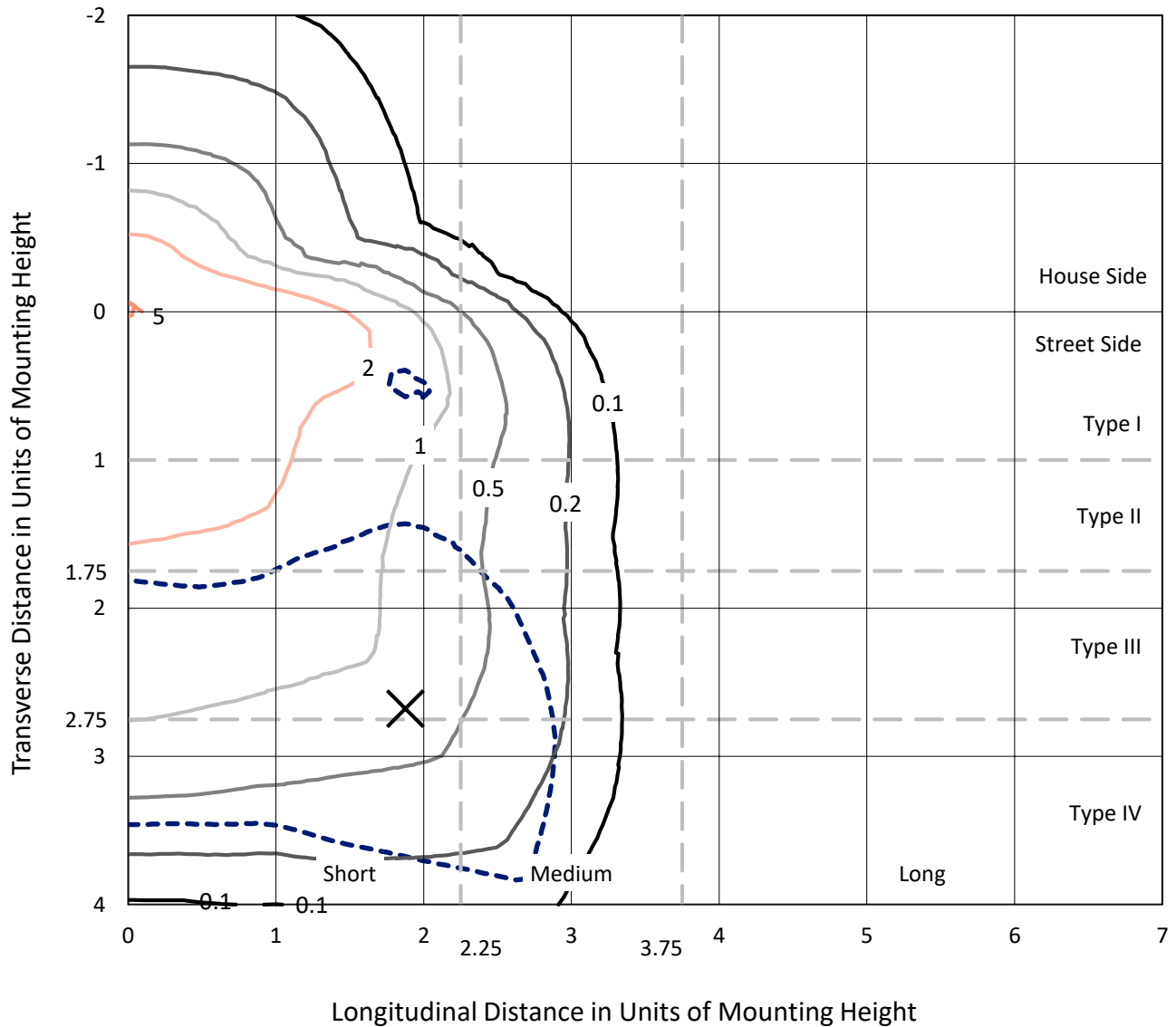
Input Watts (W): 129
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

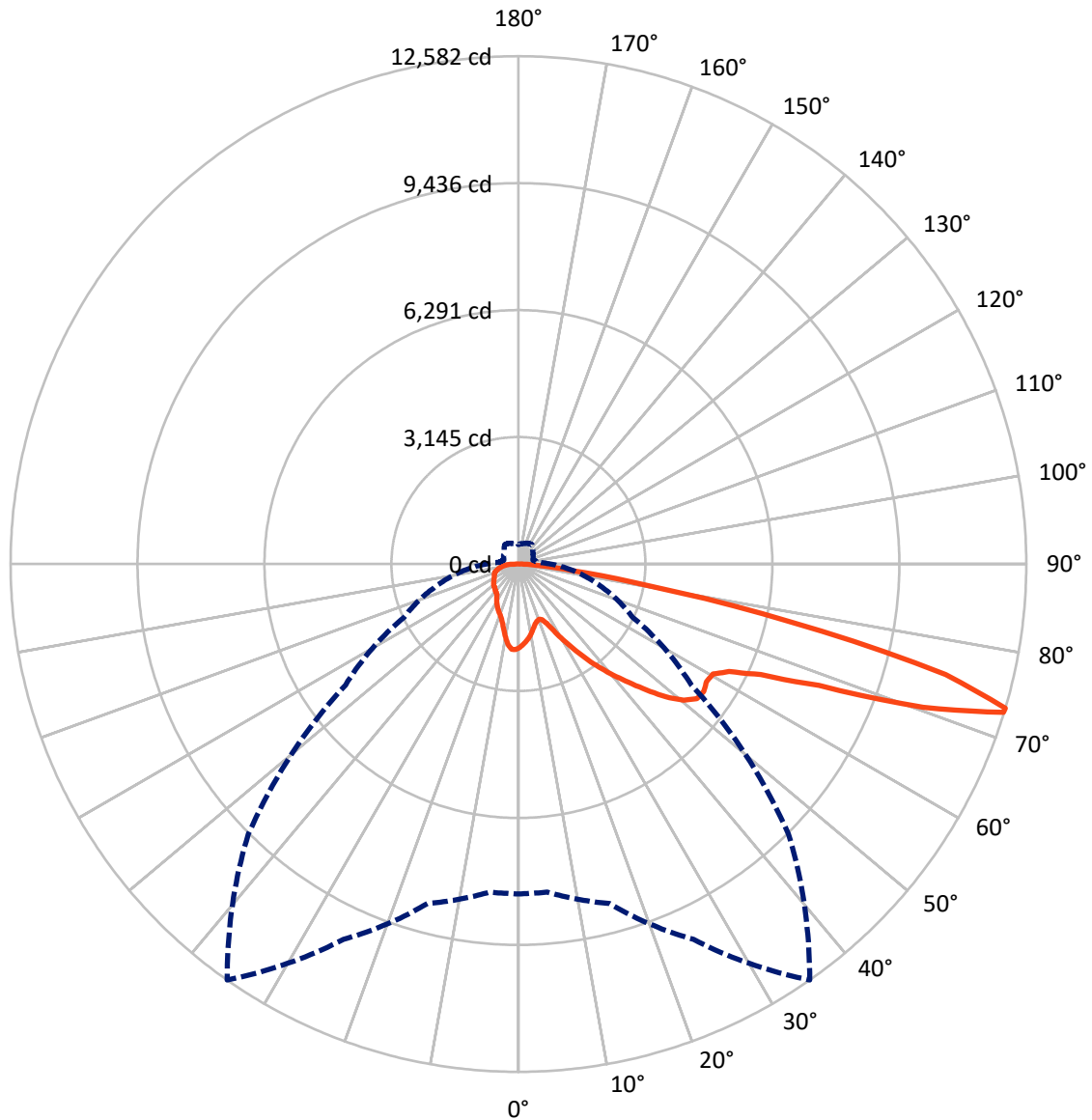
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 5.2 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	2622.2	0.0	2622.2
	% Fixture	19.1	0.0	19.1
Street Side	Lumens	11126.3	0.0	11126.3
	% Fixture	80.9	0.0	80.9
Total	Lumens	13748.5	0.0	13748.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	187.9	1.4
10°-20°	468.9	3.4
20°-30°	758.0	5.5
30°-40°	1271.0	9.2
40°-50°	1959.2	14.3
50°-60°	2628.5	19.1
60°-70°	3501.7	25.5
70°-80°	2670.7	19.4
80°-90°	302.7	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°	13748.5	100.0
0°-180°	13748.5	100.0

Coefficient of Utilization



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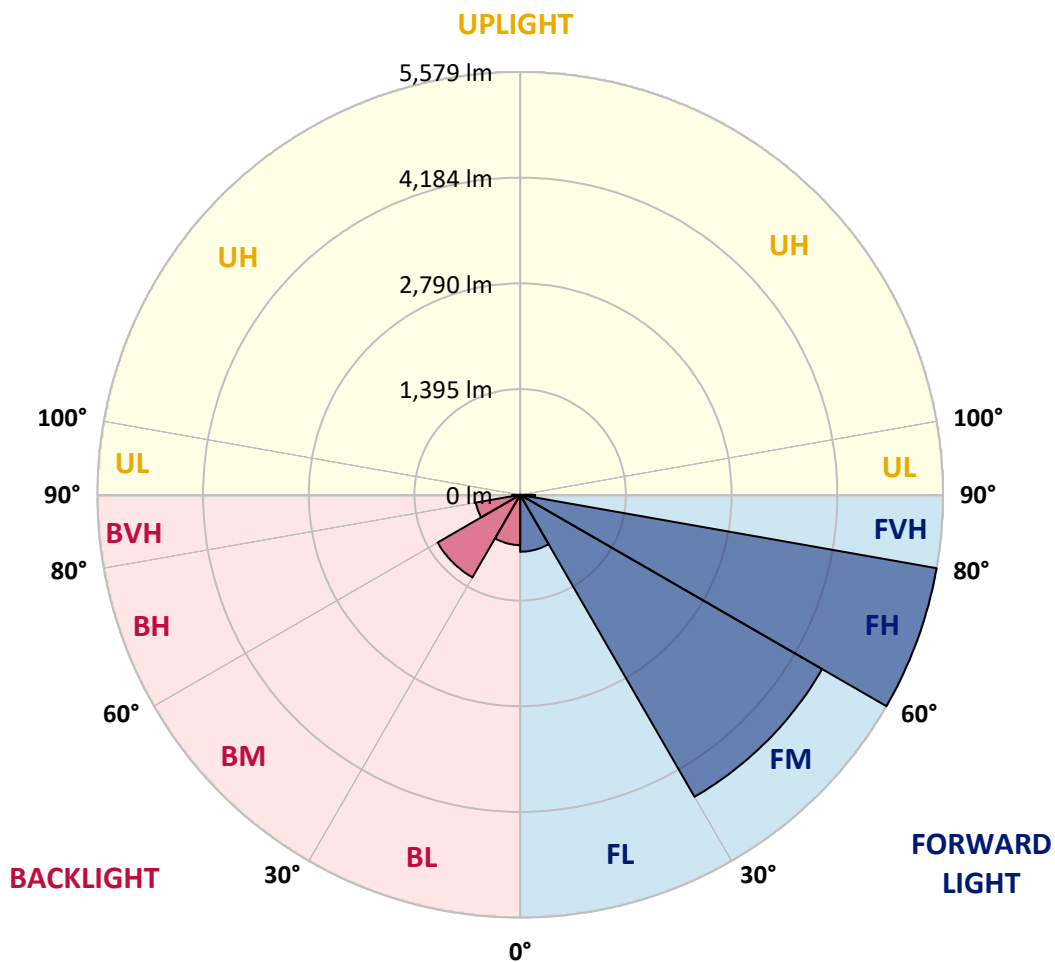
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	751.1	5.5			
FM	(30°-60°)	4600.3	33.5			
FH	(60°-80°)	5579.1	40.6			G3/7500
FVH	(80°-90°)	195.7	1.4			G2/225
BL	(0°-30°)	663.5	4.8	B2/1000		
BM	(30°-60°)	1258.4	9.2	B2/2500		
BH	(60°-80°)	593.3	4.3	B2/1000		G2/1000
BVH	(80°-90°)	107.0	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°	2075.1	2075.1	2075.1	2075.1	2075.1	2075.1	2075.1	2075.1	2075.1	2075.1	2075.1
2.5°	1993.2	1997.2	1992.5	1998.4	2008.4	2019.0	2026.3	2036.8	2048.7	2065.1	2069.1
5°	1899.4	1905.3	1905.3	1916.0	1935.1	1952.3	1968.2	1985.2	2010.4	2038.7	2050.0
7.5°	1796.5	1799.8	1805.7	1821.6	1849.3	1873.7	1896.1	1923.9	1958.2	1995.9	2015.6
10°	1672.3	1676.9	1686.2	1708.6	1746.3	1779.9	1812.3	1850.6	1894.2	1941.0	1966.1
12.5°	1584.6	1583.2	1587.2	1603.7	1636.7	1677.6	1724.5	1773.4	1826.8	1881.6	1912.0
15°	1554.8	1547.5	1532.4	1528.4	1546.2	1587.2	1641.3	1701.4	1765.4	1831.5	1869.0
17.5°	1573.3	1560.7	1519.2	1488.8	1486.1	1517.1	1574.6	1641.9	1715.9	1796.5	1843.4
20°	1689.5	1659.8	1557.4	1486.9	1462.4	1477.6	1527.8	1599.1	1686.2	1793.1	1853.3
22.5°	1967.4	1923.9	1706.7	1575.2	1492.8	1474.3	1511.9	1587.8	1689.5	1834.0	1910.7
25°	2372.1	2310.1	1962.8	1795.8	1625.5	1527.1	1535.7	1613.6	1736.4	1929.2	2021.6
27.5°	2691.7	2651.5	2297.5	2106.8	1867.1	1669.7	1612.9	1678.3	1832.1	2085.0	2179.4
30°	2881.9	2857.4	2655.4	2459.3	2175.4	1896.9	1760.8	1799.8	1982.0	2300.8	2378.8
32.5°	3102.4	3087.9	2988.9	2808.6	2508.2	2195.3	1995.2	1981.4	2182.7	2560.3	2595.9
35°	3330.8	3326.2	3268.1	3138.7	2865.4	2588.7	2306.1	2212.4	2401.2	2829.7	2807.3
37.5°	3543.4	3535.5	3501.8	3426.6	3239.1	3011.3	2623.1	2449.5	2637.0	3087.2	2987.5
40°	3934.9	3872.9	3757.3	3700.5	3616.6	3367.1	2874.6	2670.6	2881.2	3332.8	3143.3
42.5°	4412.3	4311.2	4096.0	4018.0	4006.2	3647.7	3046.2	2885.1	3127.5	3576.4	3296.5
45°	4787.9	4692.9	4507.3	4408.9	4452.5	3901.9	3218.6	3114.3	3381.0	3831.9	3454.3
47.5°	5188.7	5039.5	4793.9	4823.5	4918.7	4142.2	3394.2	3360.5	3658.9	4117.8	3650.4
50°	5203.2	5089.0	4981.4	5158.9	5306.9	4363.4	3614.1	3618.7	3998.9	4477.6	3911.2
52.5°	4901.5	4877.0	5048.1	5327.3	5540.6	4538.3	3864.3	3885.4	4434.1	4890.9	4197.7
55°	4795.8	4768.1	4965.5	5268.5	5572.2	4683.0	4135.6	4173.9	4960.2	5326.6	4476.9
57.5°	5053.3	4991.9	5005.1	5240.8	5495.0	4841.4	4431.4	4508.7	5532.0	5707.6	4656.6
60°	5772.9	5641.6	5392.0	5386.0	5536.6	5079.1	4773.4	4867.8	6126.1	5889.8	4586.5
62.5°	6782.5	6651.0	6183.6	5879.2	5856.8	5471.3	5193.3	5218.4	6469.4	5642.9	4159.4
65°	7875.1	7757.5	7235.3	6805.6	6598.2	6120.9	5681.2	5374.9	6357.2	4963.6	3412.1
67.5°	9201.4	9075.4	8626.4	8229.6	8030.3	7169.4	6023.9	5224.9	5644.8	3845.1	2452.7
70°	10129.1	10000.4	9823.4	10144.9	10632.9	8681.9	6068.0	4615.6	4216.2	2555.7	1476.2
72.5°	8918.9	8858.9	9181.7	10535.8	12568.0	9599.6	5485.1	3360.5	2448.7	1356.7	854.4
73°	8171.5	8158.3	8709.0	10261.8	12581.8	9458.3	5229.6	3123.5	2100.1	1200.2	781.0
75°	3690.0	3796.3	5003.2	7838.2	10931.3	7793.9	3680.7	1791.8	1186.4	829.2	589.5
77.5°	886.7	923.6	1565.4	3722.3	6903.3	4644.6	1667.7	886.0	758.6	585.6	430.5
80°	377.7	390.2	602.8	1375.3	3250.2	1870.4	768.5	593.5	524.9	408.7	301.8
82.5°	209.9	223.1	342.0	623.9	1311.8	637.8	468.7	413.3	345.2	246.2	196.1
85°	118.9	126.1	200.1	348.6	555.9	256.1	280.6	274.7	194.8	126.7	96.4
87.5°	56.2	60.8	96.4	161.7	217.9	100.4	142.6	157.1	122.1	77.2	50.2
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°	2075.1	2075.1	2075.1	2075.1	2075.1	2075.1	2075.1	2075.1	2075.1	2075.1
2.5°	2073.7	2085.6	2099.5	2106.8	2113.3	2121.3	2129.2	2129.2	2130.5	2131.2
5°	2059.2	2083.6	2105.4	2114.6	2116.7	2116.7	2114.6	2104.1	2094.9	2098.8
7.5°	2028.8	2064.5	2083.0	2079.7	2054.6	2025.5	2001.1	1971.4	1956.2	1953.6
10°	1985.2	2026.3	2029.5	1996.5	1934.4	1872.4	1820.9	1770.7	1746.9	1741.0
12.5°	1937.1	1974.7	1953.6	1885.6	1785.9	1695.4	1630.1	1579.2	1556.8	1550.9
15°	1898.1	1923.9	1870.4	1763.5	1638.1	1542.3	1488.1	1450.5	1434.7	1430.1
17.5°	1877.6	1882.9	1785.3	1640.6	1507.3	1427.4	1393.8	1375.9	1369.9	1366.7
20°	1887.5	1850.6	1704.0	1526.4	1400.3	1344.2	1336.3	1331.7	1330.3	1328.4
22.5°	1937.1	1840.7	1629.5	1418.1	1306.6	1282.2	1288.7	1288.1	1286.8	1285.4
25°	2025.5	1849.3	1556.8	1315.2	1228.1	1222.7	1234.6	1234.6	1229.3	1229.3
27.5°	2142.4	1867.1	1475.6	1217.4	1156.8	1157.4	1166.6	1164.0	1158.0	1154.1
30°	2285.1	1878.3	1380.5	1129.6	1090.1	1087.4	1090.1	1078.8	1061.0	1059.7
32.5°	2430.9	1864.4	1270.3	1051.7	1019.4	1013.4	1011.5	995.6	975.2	969.2
35°	2563.0	1813.6	1158.0	989.7	952.1	938.9	948.1	942.8	924.3	919.7
37.5°	2659.4	1719.2	1057.0	934.9	903.9	900.5	906.4	908.5	886.7	882.1
40°	2724.0	1591.1	970.5	888.6	894.6	882.1	862.2	848.3	841.8	839.8
42.5°	2776.2	1457.8	897.9	866.8	896.6	860.3	817.3	794.9	806.8	812.1
45°	2836.3	1327.7	837.2	839.8	886.7	835.1	786.3	764.6	769.2	770.5
47.5°	2918.8	1169.2	771.8	796.3	853.7	818.1	767.2	736.1	714.3	704.4
50°	3033.0	981.7	703.8	747.4	821.3	805.5	737.4	704.4	664.2	654.9
52.5°	3112.2	806.8	647.6	706.4	792.3	780.4	713.7	670.7	628.5	620.6
55°	3069.4	670.1	598.8	660.9	754.0	749.3	693.9	636.5	603.4	596.8
57.5°	2854.7	583.6	561.2	618.0	707.1	722.9	667.5	607.4	583.6	579.0
60°	2445.5	529.5	537.5	588.9	668.8	696.5	641.1	591.6	575.7	572.4
62.5°	1897.5	493.2	519.6	567.7	639.1	678.0	626.6	589.5	583.6	579.7
65°	1359.4	464.1	500.4	546.7	612.0	660.9	621.2	587.0	588.3	584.9
67.5°	923.6	438.4	477.3	522.9	585.6	645.7	614.0	577.7	594.2	590.2
70°	646.4	413.3	450.3	492.6	552.6	624.6	600.8	563.9	562.5	546.7
72.5°	504.4	380.3	413.3	450.3	510.4	594.8	574.4	532.8	511.0	494.5
73°	481.3	372.4	404.1	441.0	501.1	587.6	567.1	524.3	499.8	484.6
75°	398.1	338.0	367.0	400.1	461.5	553.3	531.5	485.3	454.2	445.0
77.5°	312.9	289.2	316.9	346.6	406.7	503.1	478.6	434.4	417.3	409.4
80°	231.7	239.7	264.1	290.5	352.5	449.6	427.8	383.6	460.1	441.0
82.5°	163.1	181.6	204.0	227.8	295.7	397.4	371.0	325.5	336.8	280.0
85°	96.4	118.9	139.9	160.4	213.3	329.5	306.4	259.4	212.6	202.6
87.5°	56.2	66.0	71.9	93.1	146.6	248.3	215.8	192.1	110.3	74.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)