

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: P194071

Luminaire Tested: **GLEON-AF-03-LED-E1-T4FT-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P194071
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-8030
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 3000K, 1050mA 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: 14918 lumens
Efficiency: N/A
Efficacy: 89.9 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

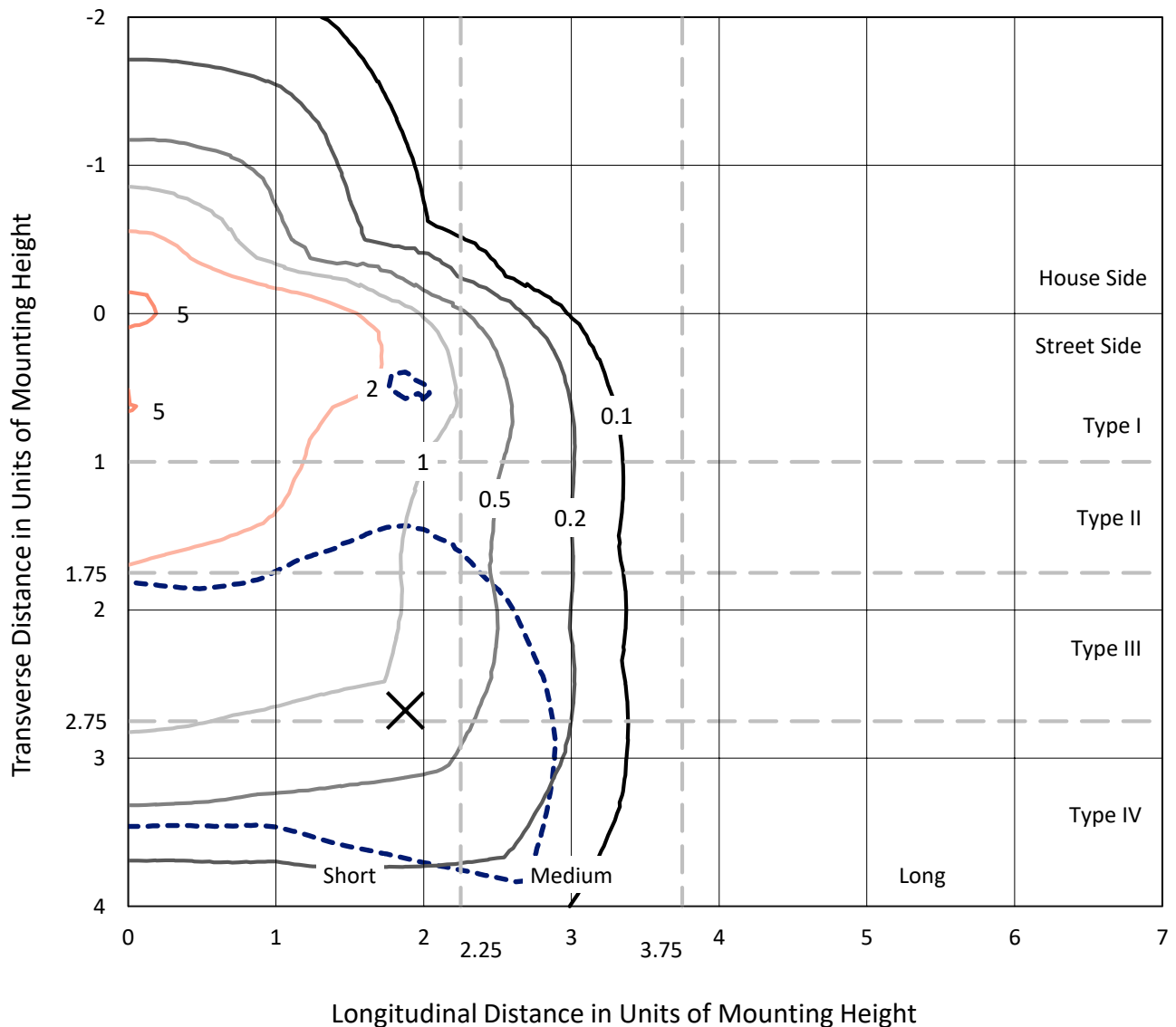
Input Watts (W): 166
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

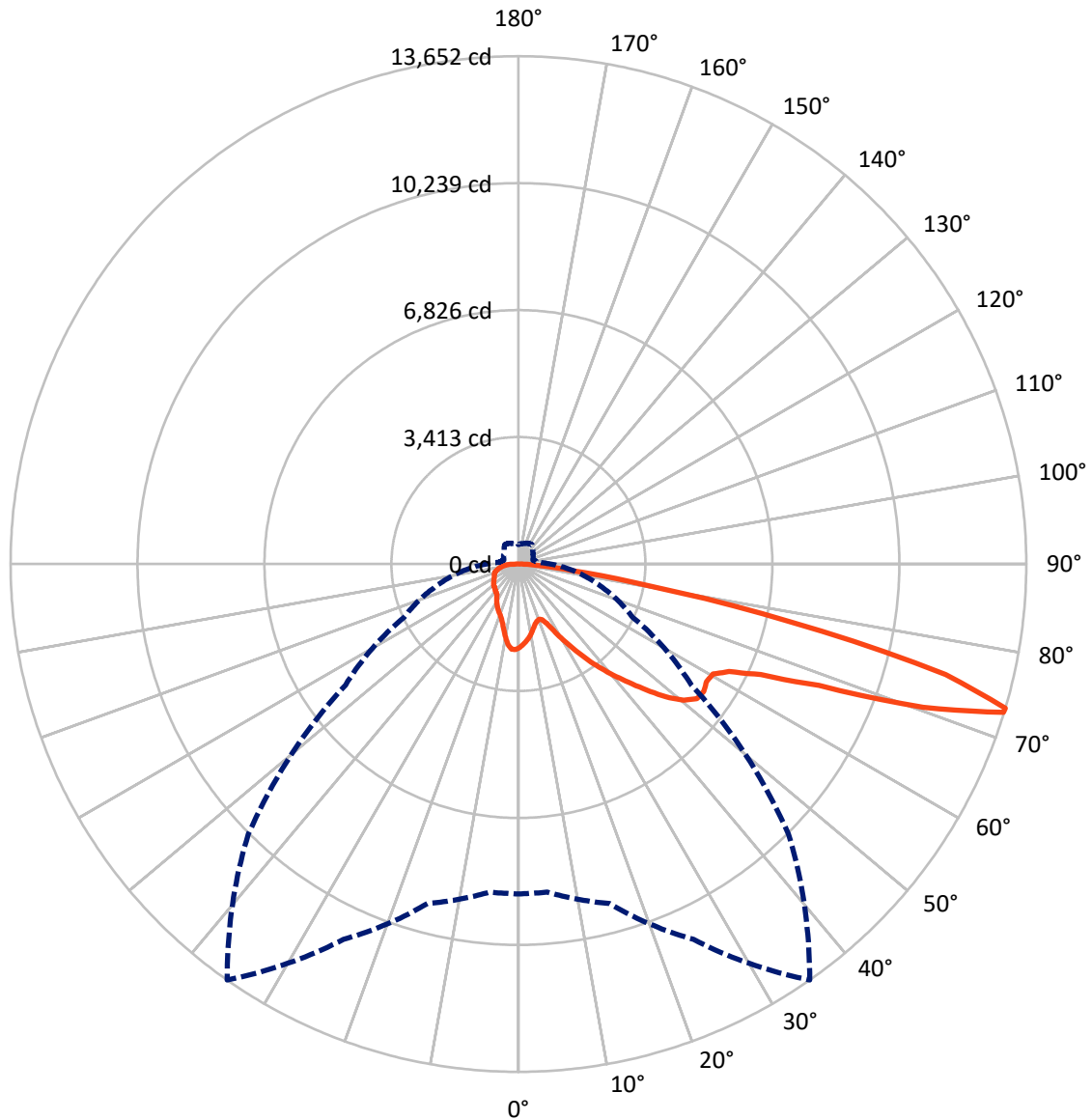
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 5.6 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	2845.3	0.0	2845.3
	% Fixture	19.1	0.0	19.1
Street Side	Lumens	12072.7	0.0	12072.7
	% Fixture	80.9	0.0	80.9
Total	Lumens	14918.0	0.0	14918.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	203.8	1.4
10°-20°	508.7	3.4
20°-30°	822.4	5.5
30°-40°	1379.1	9.2
40°-50°	2125.9	14.3
50°-60°	2852.1	19.1
60°-70°	3799.5	25.5
70°-80°	2897.9	19.4
80°-90°	328.5	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°	14918.0	100.0
0°-180°	14918.0	100.0

Coefficient of Utilization



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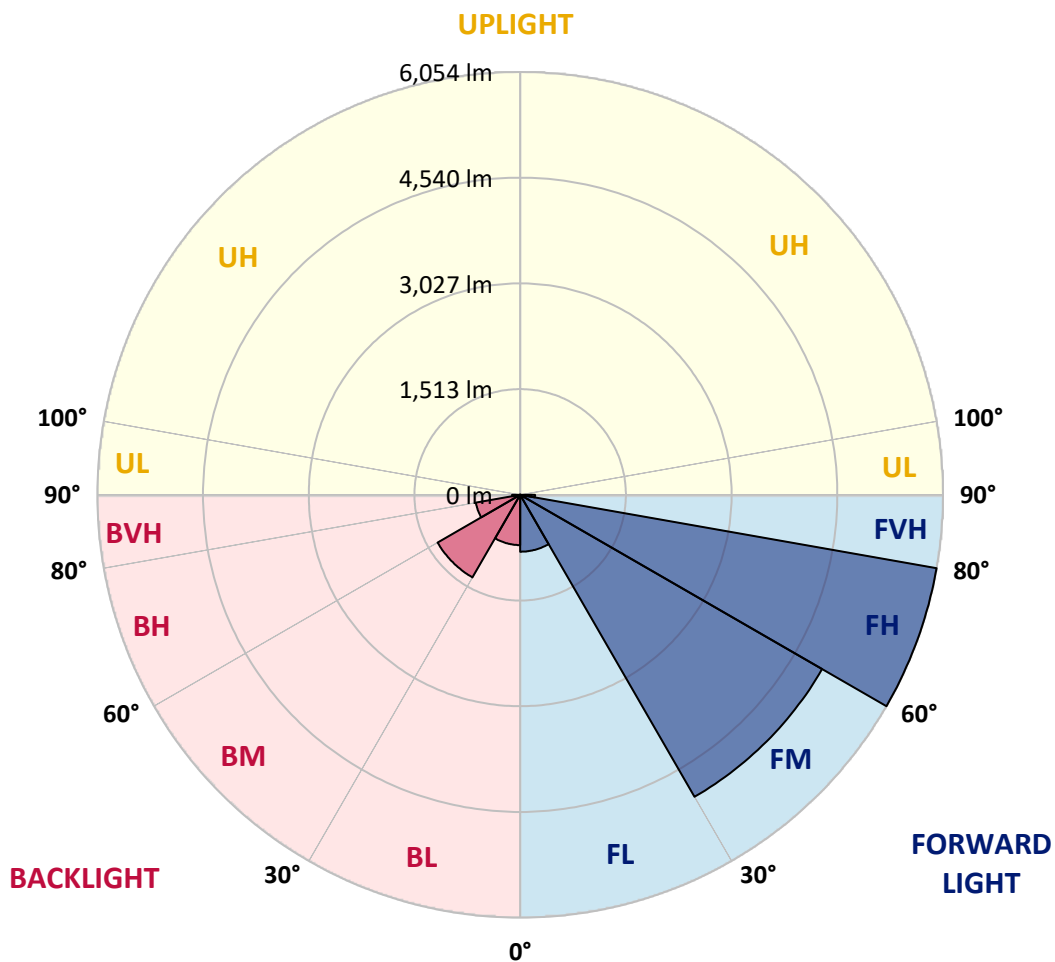
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	815.0	5.5			
FM	(30°-60°)	4991.7	33.5			
FH	(60°-80°)	6053.7	40.6			G3/7500
FVH	(80°-90°)	212.3	1.4			G2/225
BL	(0°-30°)	720.0	4.8	B2/1000		
BM	(30°-60°)	1365.4	9.2	B2/2500		
BH	(60°-80°)	643.7	4.3	B2/1000		G2/1000
BVH	(80°-90°)	116.1	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°	2251.6	2251.6	2251.6	2251.6	2251.6	2251.6	2251.6	2251.6	2251.6	2251.6	2251.6
2.5°	2162.8	2167.1	2162.0	2168.5	2179.2	2190.7	2198.6	2210.0	2222.9	2240.8	2245.1
5°	2061.0	2067.5	2067.5	2078.9	2099.7	2118.3	2135.5	2154.2	2181.4	2212.2	2224.4
7.5°	1949.3	1952.9	1959.3	1976.5	2006.6	2033.1	2057.5	2087.5	2124.8	2165.6	2187.1
10°	1814.6	1819.6	1829.6	1854.0	1894.8	1931.4	1966.5	2008.0	2055.3	2106.2	2133.4
12.5°	1719.3	1717.9	1722.2	1740.1	1775.9	1820.3	1871.2	1924.2	1982.2	2041.7	2074.6
15°	1687.1	1679.2	1662.7	1658.4	1677.8	1722.2	1780.9	1846.1	1915.6	1987.2	2028.1
17.5°	1707.1	1693.5	1648.4	1615.4	1612.6	1646.2	1708.6	1781.6	1861.9	1949.3	2000.1
20°	1833.2	1801.0	1689.9	1613.3	1586.8	1603.3	1657.7	1735.1	1829.6	1945.7	2010.9
22.5°	2134.8	2087.5	1851.8	1709.3	1619.7	1599.7	1640.5	1722.9	1833.2	1990.1	2073.2
25°	2574.0	2506.6	2129.8	1948.6	1763.7	1657.0	1666.3	1750.8	1884.1	2093.3	2193.6
27.5°	2920.7	2877.0	2493.0	2286.0	2025.9	1811.7	1750.1	1821.0	1988.0	2262.3	2364.8
30°	3127.0	3100.5	2881.3	2668.5	2360.5	2058.2	1910.6	1952.9	2150.6	2496.6	2581.1
32.5°	3366.3	3350.5	3243.1	3047.5	2721.5	2382.0	2164.9	2149.9	2368.4	2778.1	2816.8
35°	3614.1	3609.1	3546.1	3405.7	3109.1	2808.9	2502.3	2400.6	2605.5	3070.4	3046.1
37.5°	3844.8	3836.2	3799.7	3718.0	3514.6	3267.4	2846.2	2657.8	2861.2	3349.8	3241.6
40°	4269.6	4202.3	4076.9	4015.3	3924.3	3653.5	3119.1	2897.8	3126.3	3616.3	3410.7
42.5°	4787.6	4678.0	4444.4	4359.9	4347.0	3958.0	3305.4	3130.6	3393.5	3880.6	3576.9
45°	5195.2	5092.0	4890.7	4784.0	4831.3	4233.8	3492.4	3379.2	3668.6	4157.9	3748.1
47.5°	5630.0	5468.1	5201.7	5233.9	5337.0	4494.6	3682.9	3646.4	3970.2	4468.1	3960.9
50°	5645.8	5521.9	5405.1	5597.8	5758.3	4734.6	3921.5	3926.5	4339.1	4858.5	4243.8
52.5°	5318.4	5291.9	5477.5	5780.5	6011.9	4924.4	4193.0	4215.9	4811.2	5307.0	4554.8
55°	5203.8	5173.7	5387.9	5716.7	6046.3	5081.3	4487.4	4529.0	5382.2	5779.8	4857.8
57.5°	5483.2	5416.6	5430.9	5686.6	5962.5	5253.2	4808.4	4892.2	6002.6	6193.1	5052.6
60°	6264.0	6121.5	5850.7	5844.2	6007.6	5511.1	5179.4	5281.9	6647.3	6390.8	4976.7
62.5°	7359.4	7216.8	6709.6	6379.4	6355.0	5936.7	5635.1	5662.3	7019.8	6122.9	4513.2
65°	8545.0	8417.5	7850.8	7384.5	7159.5	6641.6	6164.5	5832.1	6898.0	5385.8	3702.3
67.5°	9984.2	9847.4	9360.3	8929.7	8713.4	7779.2	6536.3	5669.4	6125.1	4172.2	2661.4
70°	10990.7	10851.0	10659.1	11007.9	11537.3	9420.4	6584.3	5008.2	4574.8	2773.1	1601.8
72.5°	9677.6	9612.4	9962.7	11432.0	13637.1	10416.2	5951.7	3646.4	2657.1	1472.2	927.0
73°	8866.7	8852.3	9449.8	11134.7	13652.1	10262.9	5674.5	3389.2	2278.8	1302.4	847.5
75°	4003.9	4119.2	5428.7	8504.9	11861.1	8456.9	3993.8	1944.3	1287.3	899.8	639.7
77.5°	962.1	1002.2	1698.5	4039.0	7490.5	5039.7	1809.6	961.4	823.1	635.4	467.1
80°	409.8	423.4	654.1	1492.2	3526.8	2029.5	833.9	644.0	569.5	443.4	327.4
82.5°	227.8	242.1	371.1	677.0	1423.5	692.0	508.6	448.5	374.7	267.2	212.8
85°	128.9	136.8	217.1	378.2	603.2	278.0	304.5	298.0	211.3	137.5	104.6
87.5°	60.9	65.9	104.6	175.5	236.4	108.9	154.7	170.5	132.5	83.8	54.4
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°	2251.6	2251.6	2251.6	2251.6	2251.6	2251.6	2251.6	2251.6	2251.6	2251.6
2.5°	2250.2	2263.1	2278.1	2286.0	2293.1	2301.7	2310.3	2310.3	2311.8	2312.5
5°	2234.4	2260.9	2284.5	2294.6	2296.7	2296.7	2294.6	2283.1	2273.1	2277.4
7.5°	2201.4	2240.1	2260.2	2256.6	2229.4	2197.9	2171.4	2139.1	2122.6	2119.8
10°	2154.2	2198.6	2202.2	2166.3	2099.0	2031.7	1975.8	1921.3	1895.5	1889.1
12.5°	2101.9	2142.7	2119.8	2046.0	1937.8	1839.7	1768.7	1713.6	1689.2	1682.8
15°	2059.6	2087.5	2029.5	1913.5	1777.3	1673.5	1614.7	1573.9	1556.7	1551.7
17.5°	2037.4	2043.1	1937.1	1780.2	1635.5	1548.8	1512.3	1492.9	1486.5	1482.9
20°	2048.1	2008.0	1849.0	1656.3	1519.4	1458.6	1450.0	1444.9	1443.5	1441.4
22.5°	2101.9	1997.3	1768.0	1538.8	1417.7	1391.2	1398.4	1397.7	1396.2	1394.8
25°	2197.9	2006.6	1689.2	1427.0	1332.5	1326.7	1339.6	1339.6	1333.9	1333.9
27.5°	2324.7	2025.9	1601.1	1321.0	1255.1	1255.8	1265.8	1263.0	1256.5	1252.2
30°	2479.4	2038.1	1498.0	1225.7	1182.7	1179.9	1182.7	1170.6	1151.2	1149.8
32.5°	2637.7	2023.1	1378.3	1141.2	1106.1	1099.6	1097.5	1080.3	1058.1	1051.6
35°	2781.0	1967.9	1256.5	1073.9	1033.0	1018.7	1028.7	1023.0	1002.9	997.9
37.5°	2885.6	1865.5	1146.9	1014.4	980.7	977.1	983.6	985.7	962.1	957.1
40°	2955.8	1726.5	1053.1	964.3	970.7	957.1	935.6	920.6	913.4	911.2
42.5°	3012.4	1581.8	974.3	940.6	972.8	933.4	886.9	862.5	875.4	881.2
45°	3077.6	1440.6	908.4	911.2	962.1	906.2	853.2	829.6	834.6	836.0
47.5°	3167.1	1268.7	837.5	864.0	926.3	887.6	832.4	798.8	775.1	764.4
50°	3291.1	1065.3	763.7	810.9	891.2	874.0	800.2	764.4	720.7	710.7
52.5°	3377.0	875.4	702.8	766.5	859.7	846.8	774.4	727.8	682.0	673.4
55°	3330.5	727.1	649.8	717.1	818.1	813.1	752.9	690.6	654.8	647.6
57.5°	3097.6	633.3	608.9	670.5	767.2	784.4	724.3	659.1	633.3	628.3
60°	2653.5	574.5	583.1	639.0	725.7	755.8	695.6	641.9	624.7	621.1
62.5°	2058.9	535.1	563.8	616.1	693.5	735.7	679.8	639.7	633.3	629.0
65°	1475.0	503.6	543.0	593.2	664.1	717.1	674.1	636.9	638.3	634.7
67.5°	1002.2	475.7	517.9	567.4	635.4	700.6	666.2	626.8	644.7	640.4
70°	701.3	448.5	488.6	534.4	599.6	677.7	651.9	611.8	610.4	593.2
72.5°	547.3	412.6	448.5	488.6	553.8	645.5	623.3	578.1	554.5	536.6
73°	522.2	404.0	438.4	478.5	543.7	637.6	615.4	568.8	542.3	525.8
75°	432.0	366.8	398.3	434.1	500.8	600.3	576.7	526.5	492.9	482.8
77.5°	339.6	313.8	343.9	376.1	441.3	545.9	519.4	471.4	452.8	444.2
80°	251.5	260.0	286.6	315.2	382.5	487.9	464.2	416.2	499.3	478.5
82.5°	176.9	197.0	221.4	247.2	320.9	431.3	402.6	353.2	365.4	303.7
85°	104.6	128.9	151.9	174.1	231.4	357.5	332.4	281.5	230.7	219.9
87.5°	60.9	71.6	78.1	101.0	159.0	269.4	234.3	208.5	119.6	81.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)