

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: P192312

Luminaire Tested: **GLEON-AF-04-LED-E1-T4FT-7050-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192312
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-04-LED-E1-T4FT-7050-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 5000K, 615mA 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: 15915 lumens
Efficiency: N/A
Efficacy: 123.4 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

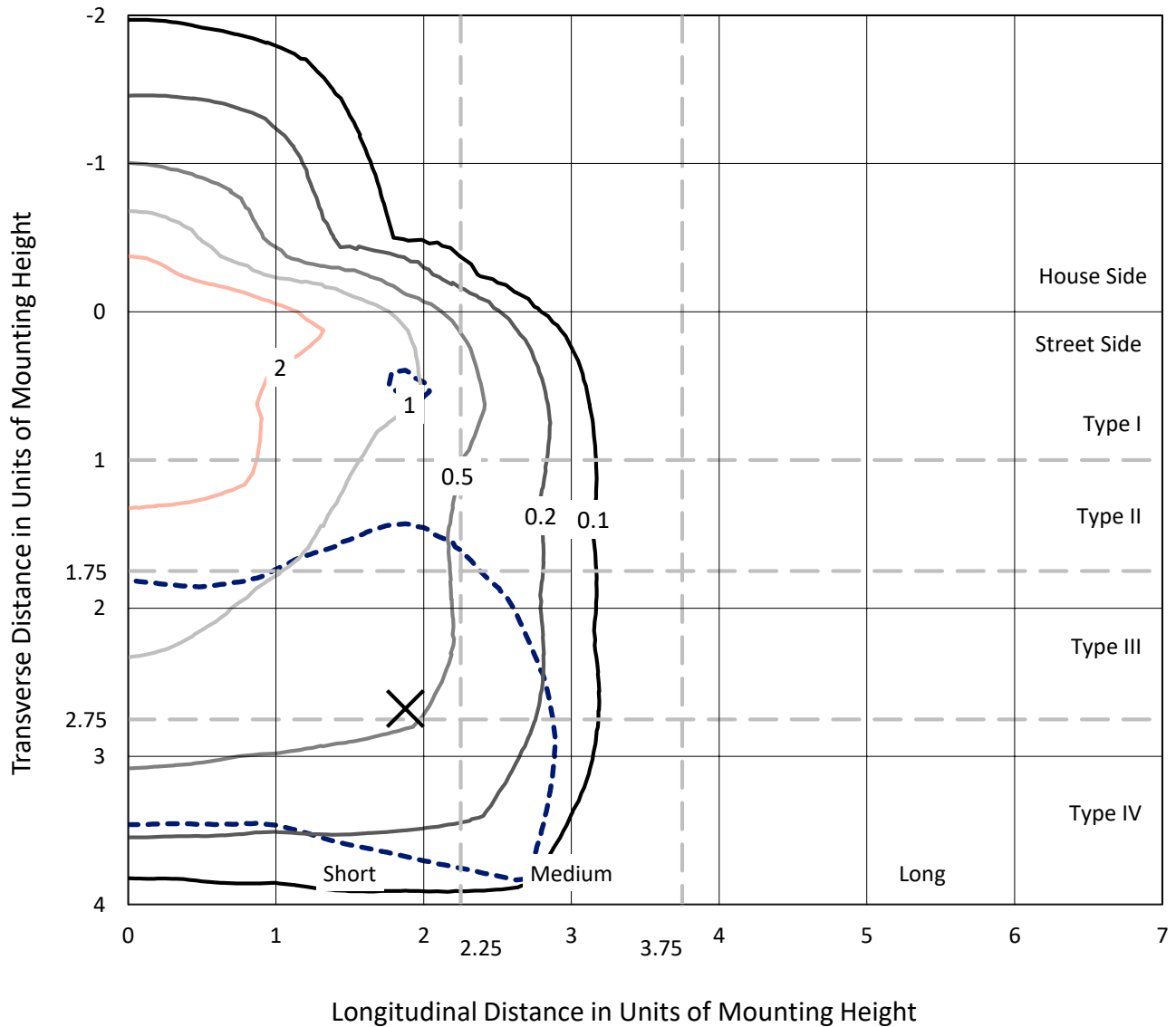


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

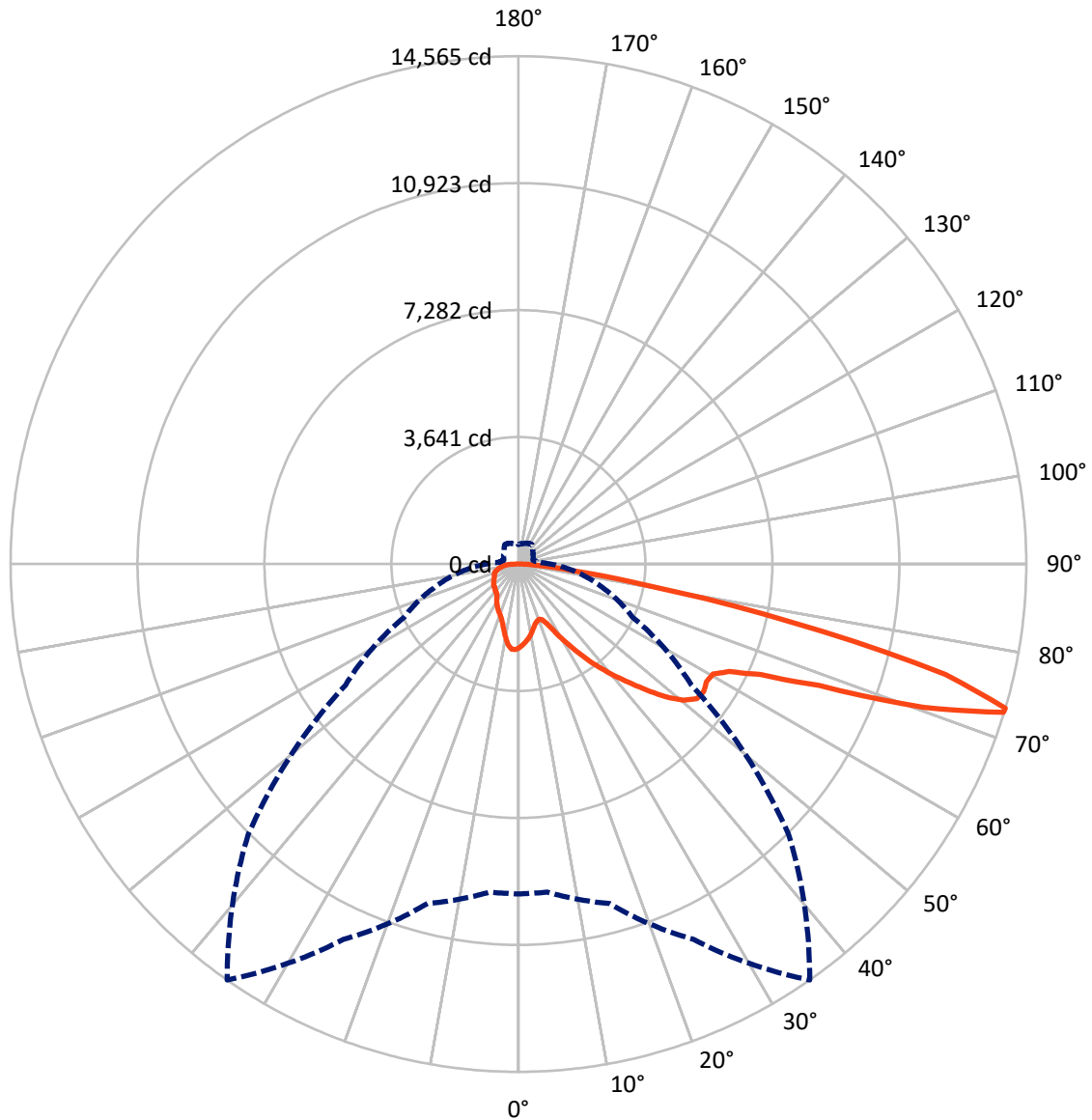


Based on 25 foot mounting height. Maximum calculated value = 3.8 fc
 Type IV - Short - Non-Cutoff

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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	3035.4	0.0	3035.4
	% Fixture	19.1	0.0	19.1
Street Side	Lumens	12879.6	0.0	12879.6
	% Fixture	80.9	0.0	80.9
Total	Lumens	15915.0	0.0	15915.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	217.5	1.4
10°-20°	542.7	3.4
20°-30°	877.4	5.5
30°-40°	1471.3	9.2
40°-50°	2267.9	14.3
50°-60°	3042.7	19.1
60°-70°	4053.5	25.5
70°-80°	3091.6	19.4
80°-90°	350.4	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°	15915.0	100.0
0°-180°	15915.0	100.0

Coefficient of Utilization



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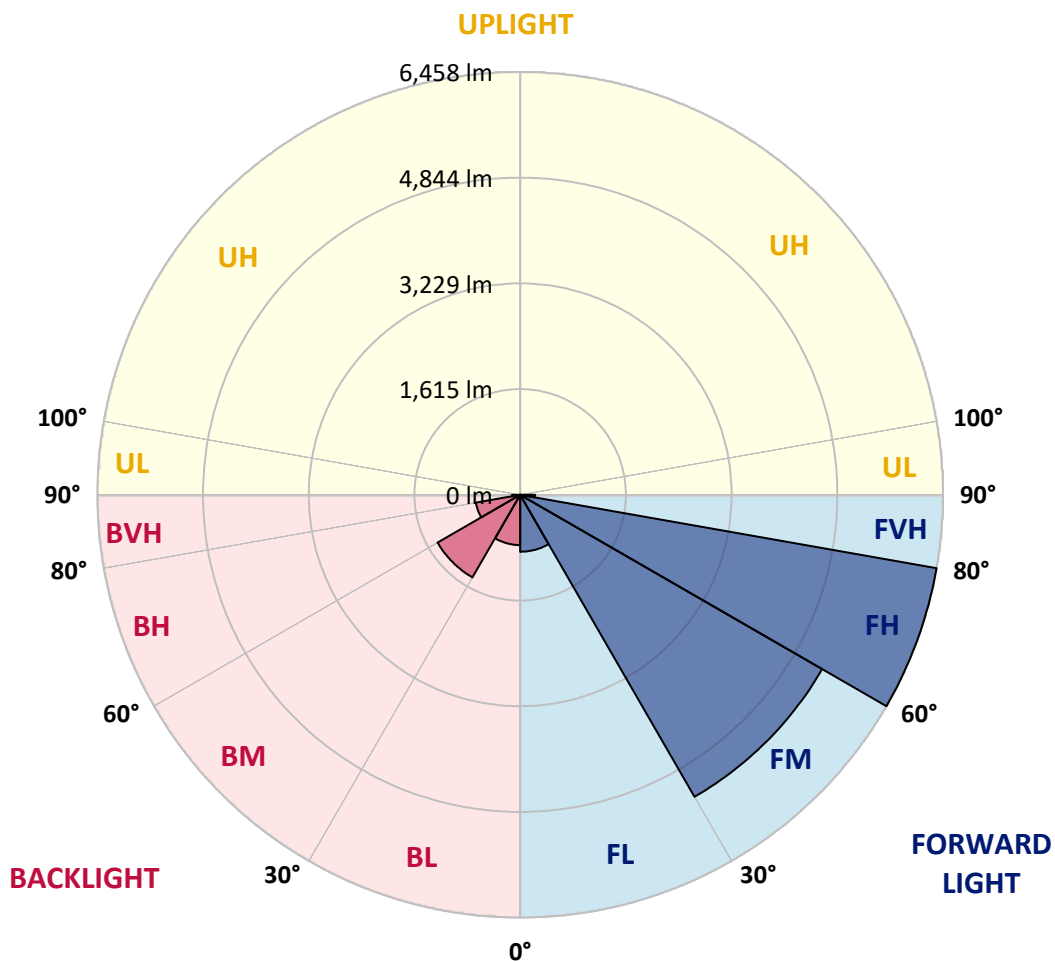
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	869.5	5.5			
FM (30°-60°)	5325.3	33.5			
FH (60°-80°)	6458.3	40.6			G3/7500
FVH (80°-90°)	226.5	1.4			G3/500
BL (0°-30°)	768.1	4.8	B2/1000		
BM (30°-60°)	1456.7	9.2	B2/2500		
BH (60°-80°)	686.7	4.3	B2/1000		G2/1000
BVH (80°-90°)	123.9	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°	2402.1	2402.1	2402.1	2402.1	2402.1	2402.1	2402.1	2402.1	2402.1	2402.1	2402.1
2.5°	2307.3	2311.9	2306.5	2313.4	2324.9	2337.1	2345.5	2357.7	2371.5	2390.6	2395.2
5°	2198.8	2205.7	2205.7	2217.9	2240.0	2259.9	2278.3	2298.1	2327.2	2360.0	2373.0
7.5°	2079.6	2083.4	2090.2	2108.6	2140.7	2169.0	2195.0	2227.1	2266.8	2310.4	2333.3
10°	1935.9	1941.2	1951.9	1977.9	2021.5	2060.4	2097.9	2142.2	2192.7	2246.9	2276.0
12.5°	1834.2	1832.7	1837.3	1856.4	1894.6	1942.0	1996.2	2052.8	2114.7	2178.1	2213.3
15°	1799.8	1791.4	1773.8	1769.3	1789.9	1837.3	1899.9	1969.5	2043.6	2120.1	2163.6
17.5°	1821.2	1806.7	1758.6	1723.4	1720.3	1756.3	1822.8	1900.7	1986.3	2079.6	2133.8
20°	1955.7	1921.3	1802.9	1721.1	1692.8	1710.4	1768.5	1851.0	1951.9	2075.7	2145.3
22.5°	2277.5	2227.1	1975.6	1823.5	1728.0	1706.6	1750.2	1838.0	1955.7	2123.1	2211.8
25°	2746.0	2674.1	2272.1	2078.8	1881.6	1767.7	1777.7	1867.9	2010.0	2233.2	2340.2
27.5°	3115.9	3069.3	2659.6	2438.8	2161.3	1932.8	1867.1	1942.7	2120.8	2413.5	2522.8
30°	3336.0	3307.7	3073.9	2846.9	2518.2	2195.7	2038.3	2083.4	2294.3	2663.4	2753.6
32.5°	3591.3	3574.4	3459.8	3251.2	2903.4	2541.2	2309.6	2293.5	2526.6	2963.8	3005.1
35°	3855.7	3850.3	3783.1	3633.3	3316.9	2996.7	2669.6	2561.0	2779.6	3275.6	3249.6
37.5°	4101.8	4092.6	4053.6	3966.5	3749.5	3485.8	3036.4	2835.4	3052.5	3573.7	3458.3
40°	4555.0	4483.1	4349.4	4283.7	4186.6	3897.7	3327.6	3091.4	3335.2	3858.0	3638.6
42.5°	5107.5	4990.6	4741.5	4651.3	4637.5	4222.5	3526.3	3339.8	3620.3	4140.0	3815.9
45°	5542.4	5432.4	5217.6	5103.7	5154.2	4516.8	3725.8	3605.0	3913.8	4435.8	3998.6
47.5°	6006.3	5833.6	5549.3	5583.7	5693.7	4795.0	3929.1	3890.1	4235.5	4766.7	4225.6
50°	6023.1	5890.9	5766.3	5971.9	6143.1	5051.0	4183.6	4188.9	4629.1	5183.2	4527.5
52.5°	5673.9	5645.6	5843.5	6166.8	6413.7	5253.5	4473.2	4497.7	5132.8	5661.6	4859.2
55°	5551.6	5519.5	5748.0	6098.8	6450.4	5420.9	4787.3	4831.6	5741.9	6166.0	5182.4
57.5°	5849.6	5778.6	5793.9	6066.7	6360.9	5604.3	5129.7	5219.1	6403.7	6607.0	5390.3
60°	6682.7	6530.6	6241.7	6234.8	6409.1	5879.4	5525.6	5634.9	7091.6	6818.0	5309.3
62.5°	7851.2	7699.2	7158.1	6805.7	6779.7	6333.4	6011.7	6040.7	7489.0	6532.1	4814.8
65°	9116.1	8980.1	8375.5	7878.0	7638.0	7085.5	6576.5	6221.8	7359.1	5745.7	3949.7
67.5°	10651.5	10505.5	9985.8	9526.5	9295.7	8299.1	6973.1	6048.4	6534.4	4451.0	2839.2
70°	11725.3	11576.2	11371.4	11743.6	12308.4	10050.0	7024.3	5342.9	4880.6	2958.4	1708.9
72.5°	10324.4	10254.8	10628.6	12196.1	14548.4	11112.3	6349.5	3890.1	2834.6	1570.6	989.0
73°	9459.2	9444.0	10081.3	11878.9	14564.5	10948.8	6053.7	3615.7	2431.1	1389.4	904.1
75°	4271.4	4394.5	5791.6	9073.3	12653.8	9022.1	4260.7	2074.2	1373.4	959.9	682.5
77.5°	1026.4	1069.2	1812.1	4308.9	7991.1	5376.6	1930.5	1025.6	878.1	677.9	498.3
80°	437.2	451.7	697.8	1592.0	3762.4	2165.1	889.6	687.1	607.6	473.1	349.3
82.5°	243.0	258.3	395.9	722.2	1518.6	738.3	542.6	478.4	399.7	285.1	227.0
85°	137.6	146.0	231.6	403.5	643.5	296.5	324.8	317.9	225.5	146.7	111.6
87.5°	65.0	70.3	111.6	187.2	252.2	116.2	165.1	181.9	141.4	89.4	58.1
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°	2402.1	2402.1	2402.1	2402.1	2402.1	2402.1	2402.1	2402.1	2402.1	2402.1
2.5°	2400.5	2414.3	2430.3	2438.8	2446.4	2455.6	2464.7	2464.7	2466.3	2467.0
5°	2383.7	2412.0	2437.2	2447.9	2450.2	2450.2	2447.9	2435.7	2425.0	2429.6
7.5°	2348.6	2389.8	2411.2	2407.4	2378.4	2344.7	2316.5	2282.1	2264.5	2261.4
10°	2298.1	2345.5	2349.3	2311.1	2239.3	2167.4	2107.8	2049.7	2022.2	2015.4
12.5°	2242.3	2285.9	2261.4	2182.7	2067.3	1962.6	1887.0	1828.1	1802.1	1795.2
15°	2197.2	2227.1	2165.1	2041.3	1896.1	1785.3	1722.6	1679.1	1660.7	1655.4
17.5°	2173.6	2179.7	2066.6	1899.2	1744.8	1652.3	1613.4	1592.7	1585.8	1582.0
20°	2185.0	2142.2	1972.6	1767.0	1621.0	1556.0	1546.9	1541.5	1540.0	1537.7
22.5°	2242.3	2130.8	1886.2	1641.6	1512.5	1484.2	1491.8	1491.1	1489.5	1488.0
25°	2344.7	2140.7	1802.1	1522.4	1421.5	1415.4	1429.2	1429.2	1423.1	1423.1
27.5°	2480.0	2161.3	1708.1	1409.3	1339.0	1339.7	1350.4	1347.4	1340.5	1335.9
30°	2645.1	2174.3	1598.1	1307.6	1261.8	1258.7	1261.8	1248.8	1228.2	1226.6
32.5°	2814.0	2158.3	1470.4	1217.5	1180.0	1173.1	1170.8	1152.5	1128.8	1121.9
35°	2966.9	2099.4	1340.5	1145.6	1102.1	1086.8	1097.5	1091.4	1070.0	1064.6
37.5°	3078.4	1990.1	1223.6	1082.2	1046.3	1042.5	1049.3	1051.6	1026.4	1021.1
40°	3153.3	1841.9	1123.5	1028.7	1035.6	1021.1	998.1	982.1	974.4	972.1
42.5°	3213.7	1687.5	1039.4	1003.5	1037.9	995.8	946.2	920.2	933.9	940.0
45°	3283.3	1536.9	969.1	972.1	1026.4	966.8	910.2	885.0	890.4	891.9
47.5°	3378.8	1353.5	893.4	921.7	988.2	946.9	888.1	852.1	826.9	815.5
50°	3511.0	1136.5	814.7	865.1	950.7	932.4	853.7	815.5	768.8	758.1
52.5°	3602.7	933.9	749.7	817.8	917.1	903.4	826.2	776.5	727.6	718.4
55°	3553.0	775.7	693.2	765.0	872.8	867.4	803.2	736.7	698.5	690.9
57.5°	3304.7	675.6	649.6	715.3	818.5	836.9	772.7	703.1	675.6	670.3
60°	2830.8	612.9	622.1	681.7	774.2	806.3	742.1	684.8	666.4	662.6
62.5°	2196.5	570.9	601.5	657.3	739.8	784.9	725.3	682.5	675.6	671.0
65°	1573.6	537.3	579.3	632.8	708.5	765.0	719.2	679.4	681.0	677.1
67.5°	1069.2	507.5	552.6	605.3	677.9	747.4	710.8	668.7	687.8	683.2
70°	748.2	478.4	521.2	570.1	639.7	723.0	695.5	652.7	651.1	632.8
72.5°	583.9	440.2	478.4	521.2	590.8	688.6	664.9	616.8	591.5	572.4
73°	557.1	431.0	467.7	510.5	580.1	680.2	656.5	606.8	578.5	561.0
75°	460.8	391.3	424.9	463.1	534.2	640.4	615.2	561.7	525.8	515.1
77.5°	362.3	334.7	366.8	401.2	470.8	582.4	554.1	502.9	483.0	473.8
80°	268.3	277.4	305.7	336.3	408.1	520.5	495.2	444.0	532.7	510.5
82.5°	188.8	210.2	236.2	263.7	342.4	460.1	429.5	376.8	389.8	324.0
85°	111.6	137.6	162.0	185.7	246.9	381.4	354.6	300.4	246.1	234.6
87.5°	65.0	76.4	83.3	107.8	169.7	287.4	249.9	222.4	127.6	86.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)