

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: P191512

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191512
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-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 4000K, 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: 16280.3 lumens
Efficiency: N/A
Efficacy: 126.2 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

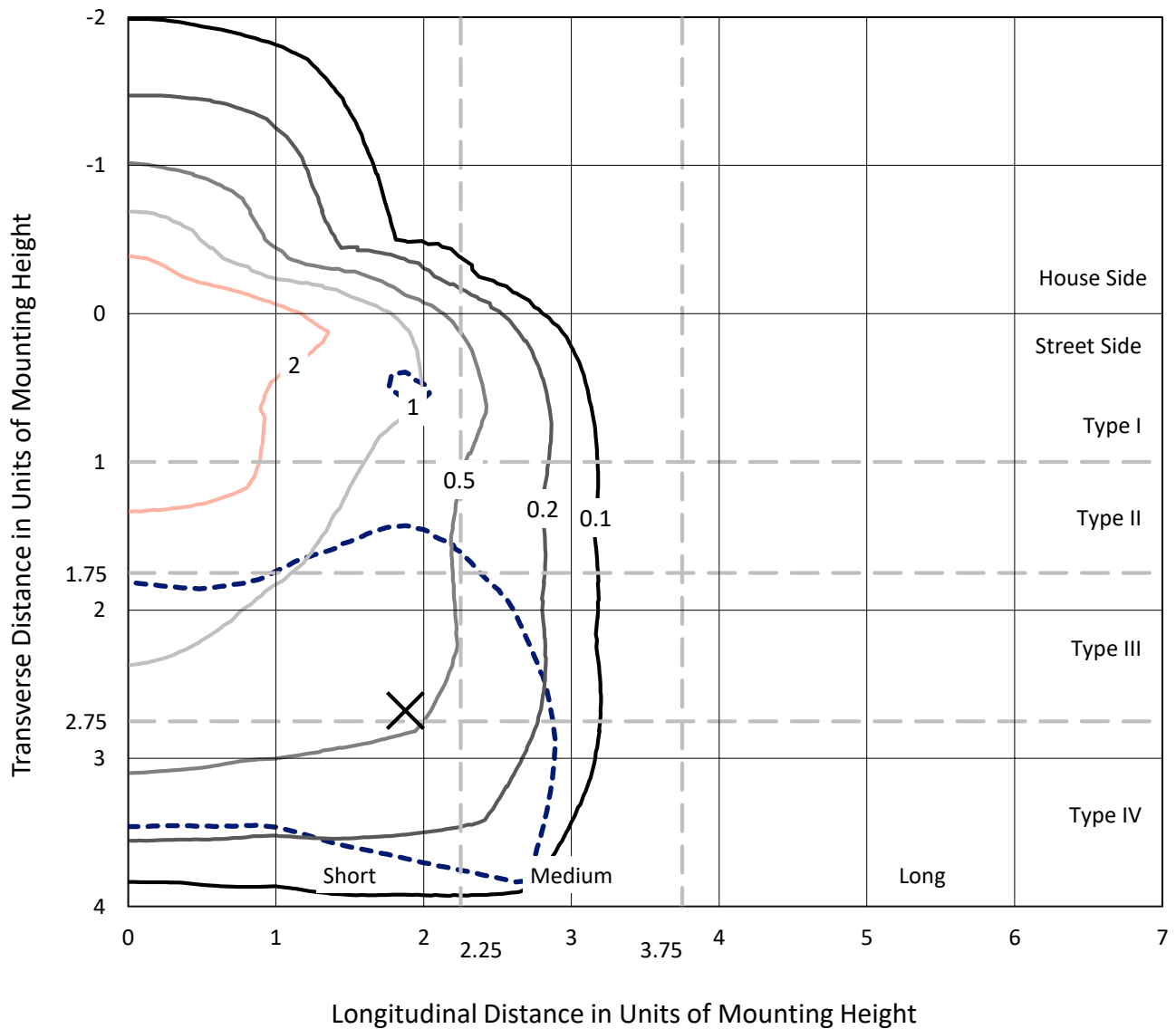
Input Watts (W): 129
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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 CATALOG NUMBER: GLEON-AF-04-LED-E1-T4FT-600

Iso-Footcandle Lines of Horizontal Illumination

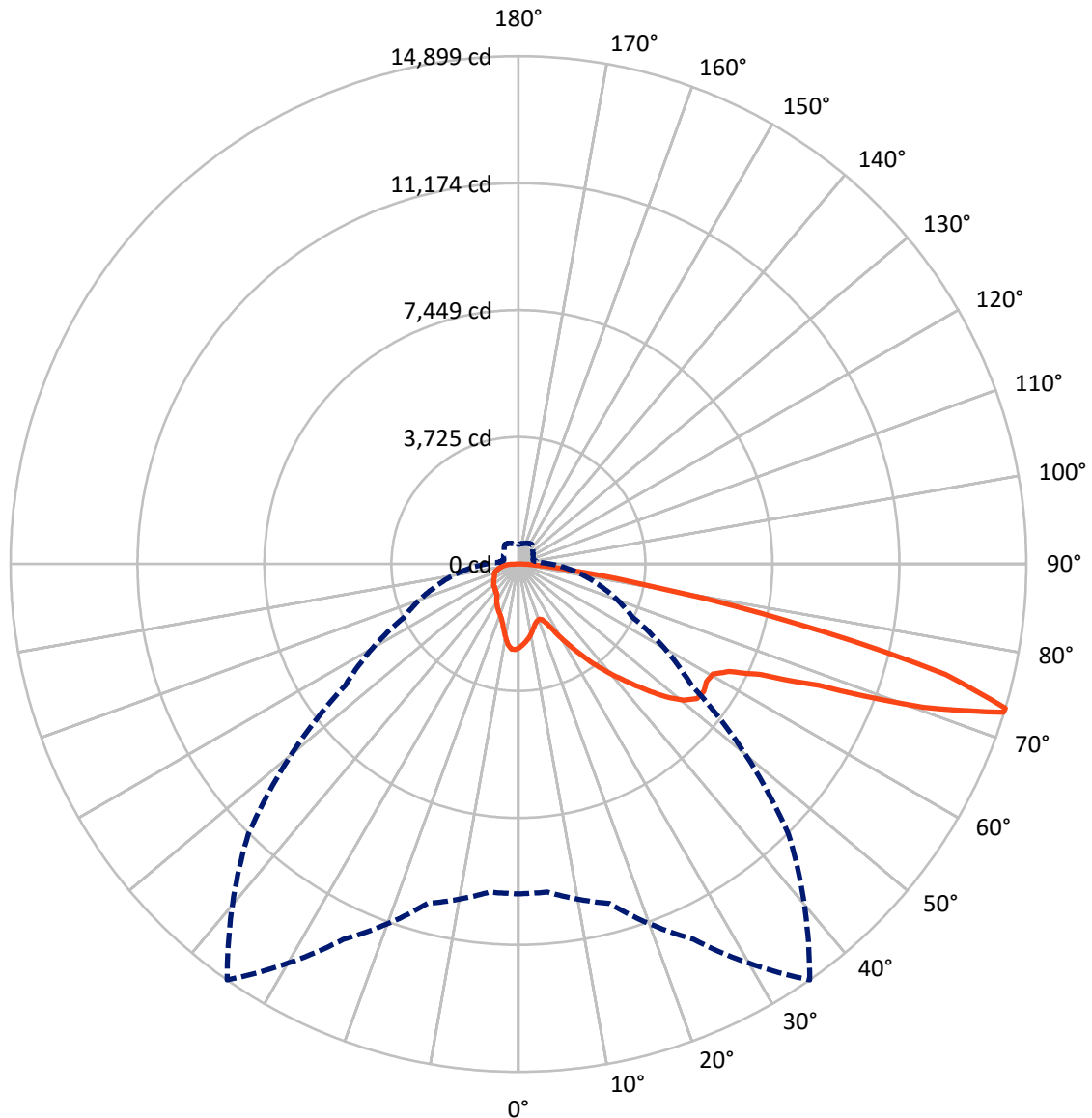
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.9 fc
 Type IV - Short - Non-Cutoff

REPORT NUMBER: P191512
CATALOG NUMBER: GLEON-AF-04-LED-E1-T4FT-600

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	3105.1	0.0	3105.1
	% Fixture	19.1	0.0	19.1
Street Side	Lumens	13175.2	0.0	13175.2
	% Fixture	80.9	0.0	80.9
Total	Lumens	16280.3	0.0	16280.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	222.4	1.4
10°-20°	555.2	3.4
20°-30°	897.6	5.5
30°-40°	1505.1	9.2
40°-50°	2320.0	14.3
50°-60°	3112.5	19.1
60°-70°	4146.5	25.5
70°-80°	3162.5	19.4
80°-90°	358.5	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°	16280.3	100.0
0°-180°	16280.3	100.0



REPORT NUMBER: P191512

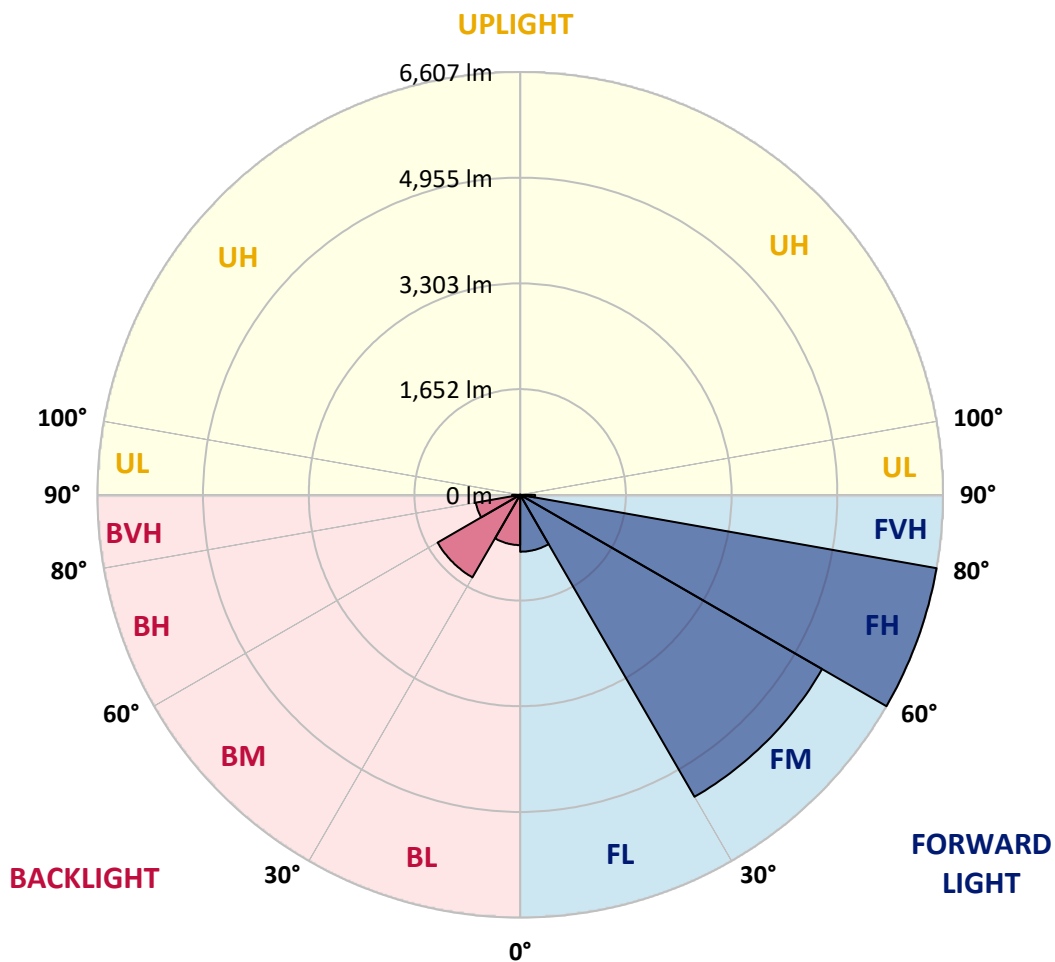
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	889.5	5.5			
FM	(30°-60°)	5447.5	33.5			
FH	(60°-80°)	6606.5	40.6			G3/7500
FVH	(80°-90°)	231.7	1.4			G3/500
BL	(0°-30°)	785.7	4.8	B2/1000		
BM	(30°-60°)	1490.1	9.2	B2/2500		
BH	(60°-80°)	702.5	4.3	B2/1000		G2/1000
BVH	(80°-90°)	126.8	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°	2457.2	2457.2	2457.2	2457.2	2457.2	2457.2	2457.2	2457.2	2457.2	2457.2	2457.2
2.5°	2360.3	2365.0	2359.4	2366.5	2378.3	2390.7	2399.3	2411.8	2425.9	2445.5	2450.2
5°	2249.3	2256.3	2256.3	2268.8	2291.4	2311.8	2330.6	2350.8	2380.6	2414.2	2427.5
7.5°	2127.3	2131.2	2138.2	2157.0	2189.8	2218.8	2245.4	2278.2	2318.8	2363.4	2386.9
10°	1980.3	1985.8	1996.7	2023.3	2067.9	2107.7	2146.0	2191.4	2243.0	2298.5	2328.2
12.5°	1876.3	1874.8	1879.5	1899.0	1938.1	1986.6	2042.0	2099.9	2163.2	2228.1	2264.1
15°	1841.1	1832.5	1814.5	1809.9	1831.0	1879.5	1943.5	2014.7	2090.5	2168.8	2213.3
17.5°	1863.0	1848.2	1799.0	1763.0	1759.8	1796.6	1864.6	1944.3	2031.9	2127.3	2182.8
20°	2000.6	1965.4	1844.3	1760.6	1731.7	1749.7	1809.1	1893.5	1996.7	2123.3	2194.5
22.5°	2329.8	2278.2	2020.9	1865.4	1767.7	1745.8	1790.4	1880.2	2000.6	2171.8	2262.6
25°	2809.0	2735.5	2324.2	2126.5	1924.8	1808.3	1818.5	1910.8	2056.1	2284.5	2393.9
27.5°	3187.4	3139.7	2720.6	2494.8	2210.9	1977.2	1910.0	1987.3	2169.5	2468.9	2580.7
30°	3412.6	3383.6	3144.4	2912.2	2576.0	2246.1	2085.1	2131.2	2347.0	2724.5	2816.8
32.5°	3673.7	3656.4	3539.2	3325.8	2970.0	2599.5	2362.6	2346.1	2584.6	3031.8	3074.1
35°	3944.2	3938.7	3869.9	3716.7	3393.0	3065.5	2730.9	2619.8	2843.4	3350.8	3324.2
37.5°	4195.9	4186.5	4146.6	4057.5	3835.6	3565.8	3106.1	2900.5	3122.6	3655.7	3537.7
40°	4659.5	4586.0	4449.2	4382.0	4282.7	3987.2	3404.0	3162.4	3411.7	3946.5	3722.1
42.5°	5224.7	5105.1	4850.3	4758.1	4743.9	4319.4	3607.2	3416.5	3703.4	4235.0	3903.5
45°	5669.6	5557.1	5337.3	5220.8	5272.5	4620.5	3811.3	3687.7	4003.6	4537.6	4090.4
47.5°	6144.1	5967.5	5676.7	5711.9	5824.4	4905.0	4019.3	3979.4	4332.7	4876.1	4322.6
50°	6161.3	6026.1	5898.6	6109.0	6284.1	5166.9	4279.6	4285.0	4735.3	5302.2	4631.4
52.5°	5804.1	5775.2	5977.6	6308.3	6560.9	5374.1	4575.9	4600.9	5250.6	5791.5	4970.7
55°	5679.0	5646.2	5879.9	6238.8	6598.4	5545.3	4897.2	4942.5	5873.7	6307.5	5301.3
57.5°	5983.9	5911.2	5926.9	6205.9	6506.9	5732.9	5247.4	5338.9	6550.7	6758.6	5514.0
60°	6836.1	6680.5	6385.0	6377.9	6556.2	6014.3	5652.4	5764.2	7254.4	6974.5	5431.2
62.5°	8031.4	7875.9	7322.4	6961.9	6935.3	6478.8	6149.7	6179.3	7660.9	6682.0	4925.3
65°	9325.3	9186.2	8567.7	8058.8	7813.3	7248.1	6727.4	6364.6	7528.0	5877.6	4040.3
67.5°	10896.0	10746.6	10215.0	9745.1	9509.0	8489.6	7133.1	6187.2	6684.4	4553.2	2904.4
70°	11994.4	11841.9	11632.4	12013.1	12590.9	10280.7	7185.5	5465.5	4992.6	3026.3	1748.1
72.5°	10561.4	10490.2	10872.5	12476.0	14882.3	11367.3	6495.2	3979.4	2899.7	1606.6	1011.7
73°	9676.3	9660.7	10312.7	12151.5	14898.8	11200.1	6192.6	3698.7	2486.9	1421.3	924.8
75°	4369.4	4495.4	5924.5	9281.5	12944.2	9229.2	4358.5	2121.8	1404.9	981.9	698.2
77.5°	1050.0	1093.7	1853.7	4407.8	8174.5	5500.0	1974.8	1049.1	898.3	693.5	509.7
80°	447.2	462.1	713.8	1628.5	3848.8	2214.8	910.0	702.9	621.5	484.0	357.3
82.5°	248.6	264.2	405.0	738.8	1553.5	755.2	555.1	489.4	408.9	291.6	232.2
85°	140.8	149.4	236.9	412.8	658.3	303.3	332.3	325.2	230.7	150.1	114.2
87.5°	66.5	71.9	114.2	191.5	258.0	118.9	168.9	186.1	144.6	91.5	59.4
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°	2457.2	2457.2	2457.2	2457.2	2457.2	2457.2	2457.2	2457.2	2457.2	2457.2
2.5°	2455.6	2469.7	2486.1	2494.8	2502.5	2512.0	2521.3	2521.3	2522.9	2523.6
5°	2438.4	2467.4	2493.1	2504.1	2506.4	2506.4	2504.1	2491.6	2480.7	2485.4
7.5°	2402.5	2444.6	2466.5	2462.7	2433.0	2398.5	2369.7	2334.5	2316.5	2313.3
10°	2350.8	2399.3	2403.2	2364.1	2290.7	2217.1	2156.2	2096.7	2068.6	2061.7
12.5°	2293.8	2338.4	2313.3	2232.8	2114.7	2007.6	1930.3	1870.1	1843.5	1836.4
15°	2247.6	2278.2	2214.8	2088.1	1939.6	1826.3	1762.1	1717.6	1698.8	1693.4
17.5°	2223.5	2229.7	2114.0	1942.8	1784.8	1690.2	1650.4	1629.3	1622.2	1618.3
20°	2235.1	2191.4	2017.9	1807.6	1658.2	1591.7	1582.4	1576.9	1575.3	1573.0
22.5°	2293.8	2179.7	1929.5	1679.3	1547.2	1518.3	1526.0	1525.3	1523.7	1522.2
25°	2398.5	2189.8	1843.5	1557.3	1454.1	1447.9	1462.0	1462.0	1455.8	1455.8
27.5°	2536.9	2210.9	1747.3	1441.6	1369.7	1370.4	1381.4	1378.3	1371.3	1366.6
30°	2705.8	2224.2	1634.8	1337.6	1290.8	1287.6	1290.8	1277.5	1256.4	1254.8
32.5°	2878.6	2207.8	1504.1	1245.4	1207.1	1200.0	1197.7	1179.0	1154.7	1147.6
35°	3035.0	2147.6	1371.3	1171.9	1127.4	1111.7	1122.7	1116.4	1094.6	1089.0
37.5°	3149.1	2035.8	1251.7	1107.0	1070.3	1066.4	1073.4	1075.7	1050.0	1044.5
40°	3225.7	1884.2	1149.3	1052.3	1059.4	1044.5	1021.0	1004.6	996.8	994.4
42.5°	3287.5	1726.2	1063.3	1026.5	1061.7	1018.7	967.9	941.3	955.3	961.6
45°	3358.7	1572.2	991.3	994.4	1050.0	989.0	931.1	905.3	910.8	912.4
47.5°	3456.3	1384.6	913.9	942.9	1010.9	968.6	908.5	871.7	845.9	834.2
50°	3591.6	1162.6	833.4	885.0	972.5	953.8	873.3	834.2	786.4	775.5
52.5°	3685.4	955.3	766.9	836.6	938.1	924.1	845.2	794.3	744.3	734.9
55°	3634.5	793.5	709.1	782.6	892.8	887.3	821.6	753.6	714.5	706.8
57.5°	3380.5	691.1	664.5	731.7	837.3	856.1	790.4	719.2	691.1	685.7
60°	2895.8	627.0	636.4	697.3	792.0	824.8	759.1	700.5	681.7	677.8
62.5°	2246.9	584.0	615.3	672.4	756.8	802.9	741.9	698.2	691.1	686.4
65°	1609.7	549.6	592.6	647.3	724.8	782.6	735.7	695.0	696.6	692.6
67.5°	1093.7	519.1	565.3	619.2	693.5	764.6	727.1	684.0	703.6	698.9
70°	765.4	489.4	533.2	583.2	654.4	739.6	711.5	667.7	666.0	647.3
72.5°	597.3	450.3	489.4	533.2	604.4	704.4	680.2	631.0	605.1	585.5
73°	569.9	440.9	478.4	522.2	593.4	695.8	671.6	620.7	591.8	573.9
75°	471.4	400.3	434.7	473.7	546.5	655.1	629.3	574.6	537.9	526.9
77.5°	370.6	342.4	375.2	410.4	481.6	595.8	566.8	514.4	494.1	484.7
80°	274.5	283.8	312.7	344.0	417.5	532.4	506.6	454.2	544.9	522.2
82.5°	193.1	215.0	241.6	269.8	350.3	470.7	439.4	385.4	398.7	331.4
85°	114.2	140.8	165.7	190.0	252.6	390.2	362.7	307.3	251.7	240.0
87.5°	66.5	78.2	85.2	110.3	173.6	294.0	255.6	227.5	130.5	88.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)