

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: P194053

Luminaire Tested: **GLEON-AF-05-LED-E1-T4FT-8030-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P194053
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-05-LED-E1-T4FT-8030-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 3000K, 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: 16091 lumens
Efficiency: N/A
Efficacy: 99.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B2 - U0 - G3

Input Watts (W): 162
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

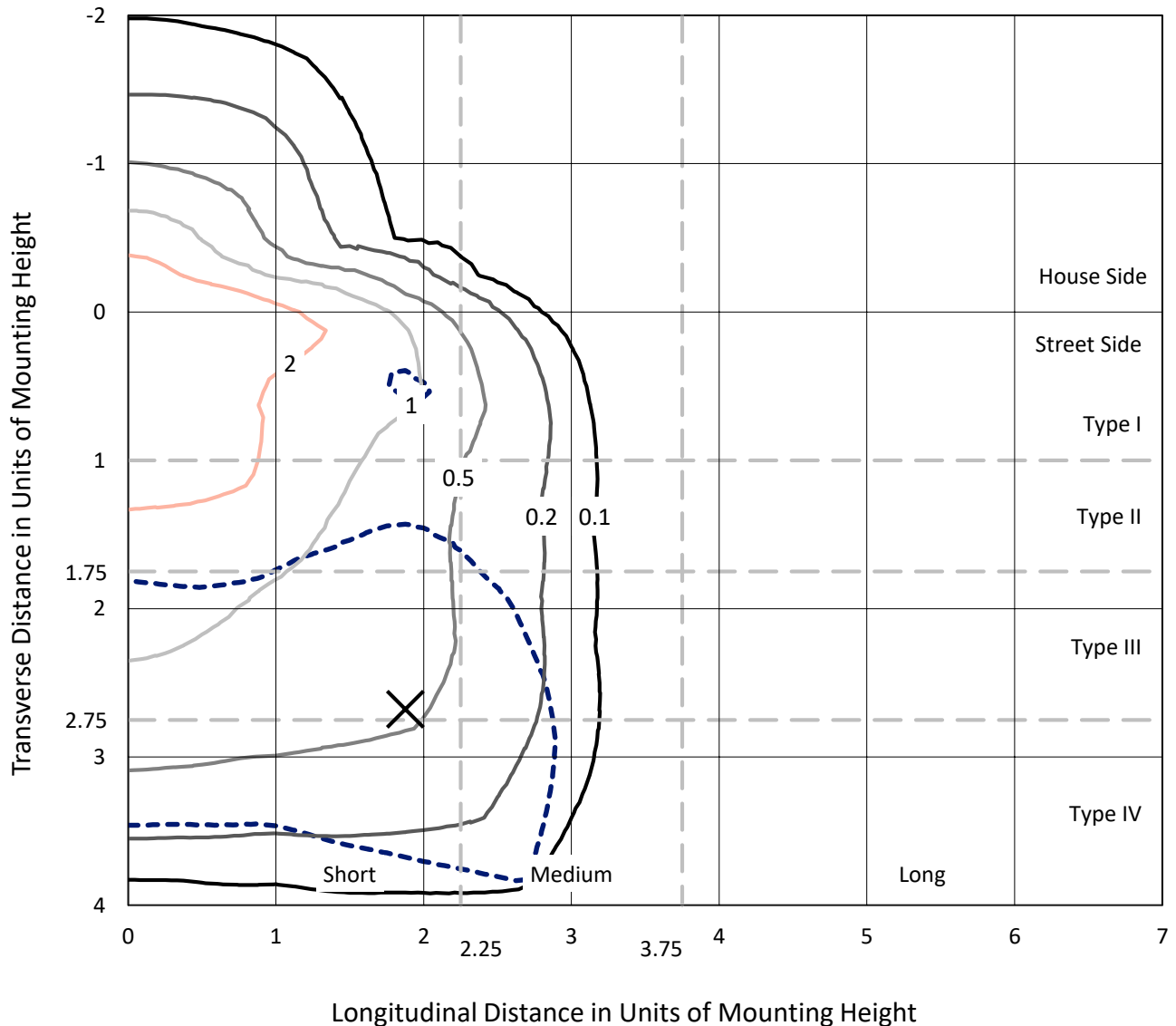


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

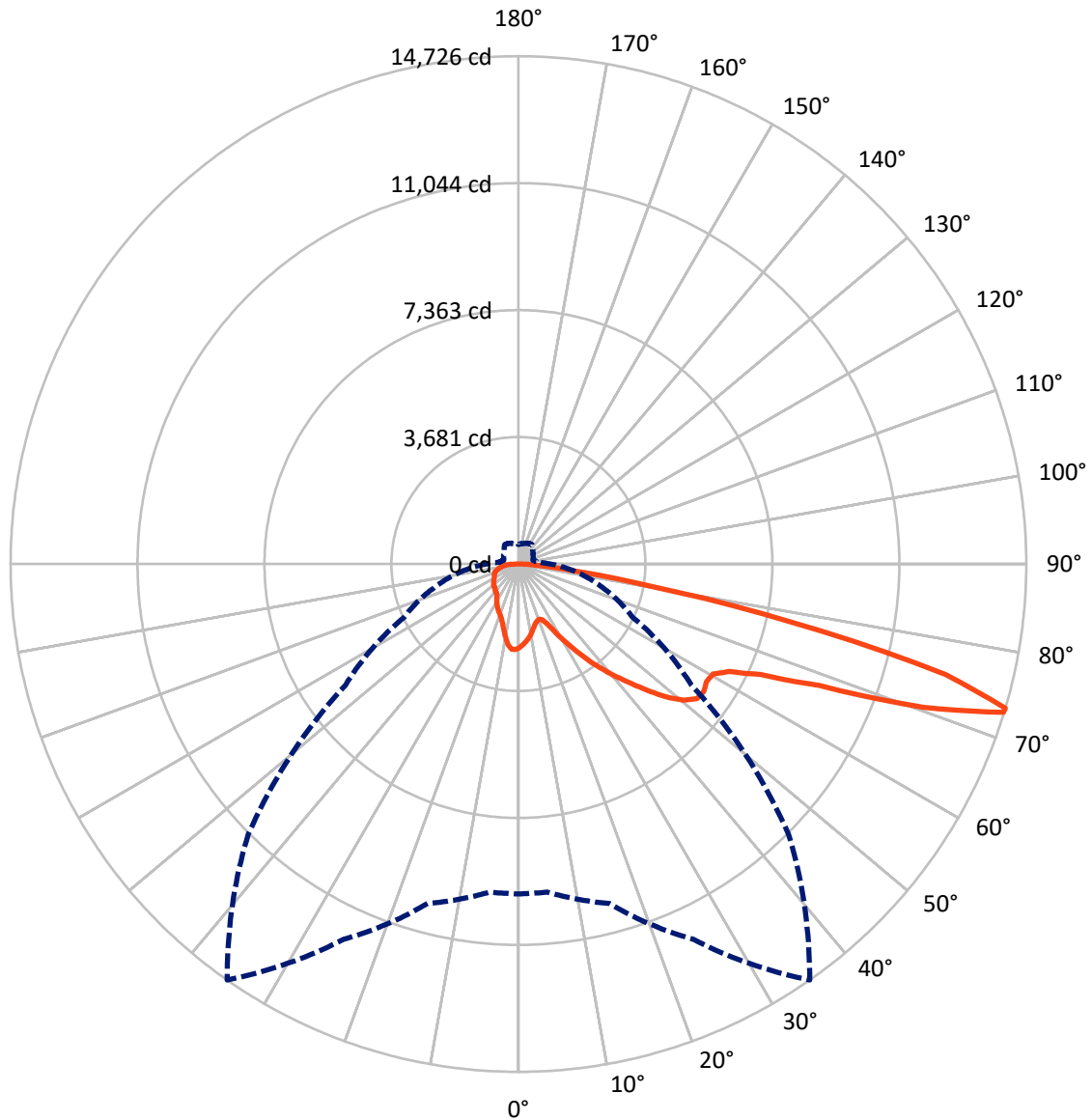


Based on 25 foot mounting height. Maximum calculated value = 3.9 fc
 Type IV - Short - Non-Cutoff

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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	3069.0	0.0	3069.0
	% Fixture	19.1	0.0	19.1
Street Side	Lumens	13022.0	0.0	13022.0
	% Fixture	80.9	0.0	80.9
Total	Lumens	16091.0	0.0	16091.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	219.9	1.4
10°-20°	548.7	3.4
20°-30°	887.1	5.5
30°-40°	1487.6	9.2
40°-50°	2293.0	14.3
50°-60°	3076.3	19.1
60°-70°	4098.3	25.5
70°-80°	3125.8	19.4
80°-90°	354.3	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°	16091.0	100.0
0°-180°	16091.0	100.0



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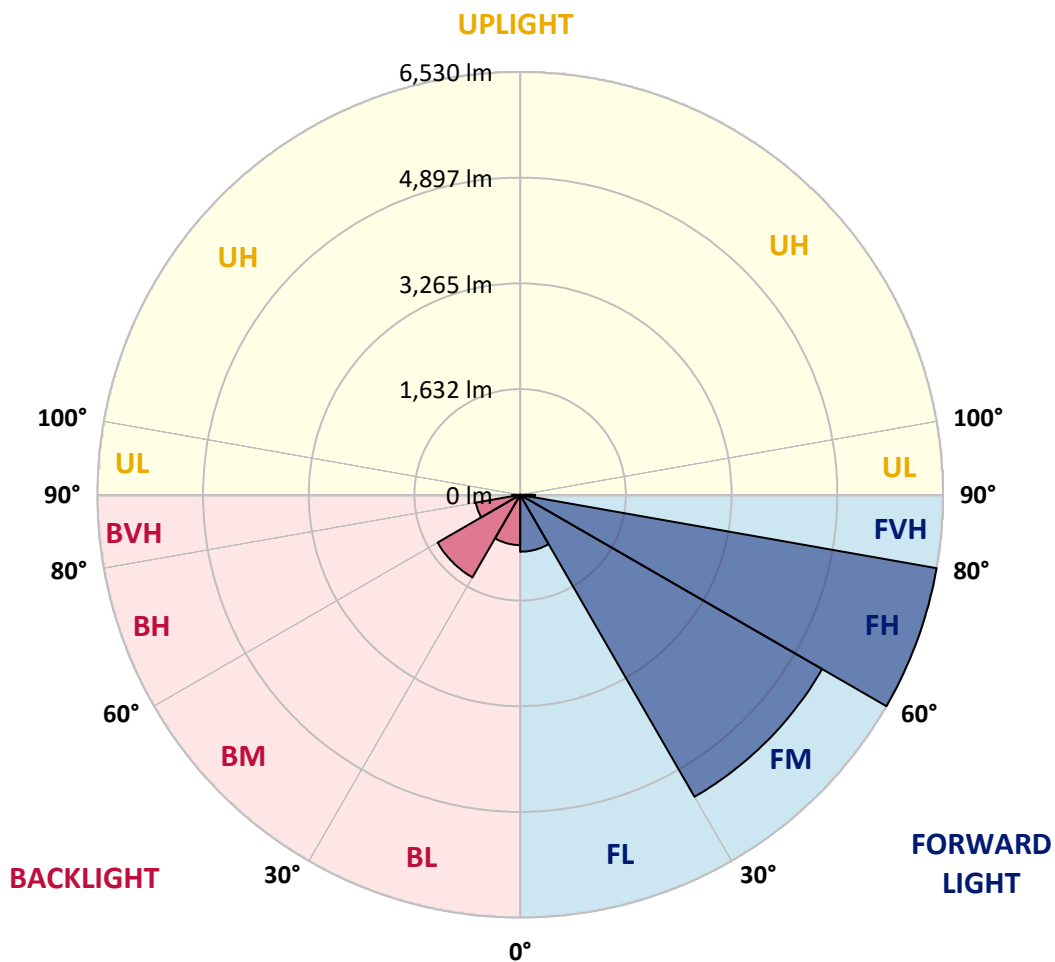
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	879.1	5.5			
FM	(30°-60°)	5384.2	33.5			
FH	(60°-80°)	6529.7	40.6			G3/7500
FVH	(80°-90°)	229.0	1.4			G3/500
BL	(0°-30°)	776.6	4.8	B2/1000		
BM	(30°-60°)	1472.8	9.2	B2/2500		
BH	(60°-80°)	694.3	4.3	B2/1000		G2/1000
BVH	(80°-90°)	125.3	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°	2428.6	2428.6	2428.6	2428.6	2428.6	2428.6	2428.6	2428.6	2428.6	2428.6	2428.6
2.5°	2332.8	2337.5	2332.0	2339.0	2350.6	2363.0	2371.5	2383.8	2397.7	2417.0	2421.7
5°	2223.1	2230.0	2230.0	2242.4	2264.8	2284.9	2303.5	2323.5	2352.9	2386.1	2399.3
7.5°	2102.5	2106.4	2113.4	2131.9	2164.4	2193.0	2219.2	2251.7	2291.9	2335.9	2359.1
10°	1957.3	1962.7	1973.5	1999.8	2043.8	2083.2	2121.1	2165.9	2216.9	2271.8	2301.1
12.5°	1854.5	1853.0	1857.6	1876.9	1915.6	1963.5	2018.3	2075.5	2138.1	2202.2	2237.8
15°	1819.7	1811.2	1793.5	1788.8	1809.7	1857.6	1921.0	1991.3	2066.2	2143.5	2187.5
17.5°	1841.4	1826.7	1778.0	1742.5	1739.4	1775.7	1842.9	1921.7	2008.3	2102.5	2157.4
20°	1977.4	1942.6	1822.8	1740.1	1711.6	1729.3	1788.1	1871.5	1973.5	2098.7	2169.0
22.5°	2302.7	2251.7	1997.5	1843.7	1747.1	1725.5	1769.5	1858.4	1977.4	2146.6	2236.2
25°	2776.4	2703.7	2297.3	2101.8	1902.4	1787.3	1797.3	1888.5	2032.2	2257.9	2366.0
27.5°	3150.3	3103.2	2689.0	2465.7	2185.2	1954.2	1887.7	1964.2	2144.3	2440.2	2550.7
30°	3372.9	3344.3	3107.8	2878.3	2546.1	2220.0	2060.8	2106.4	2319.7	2692.9	2784.1
32.5°	3631.0	3614.0	3498.1	3287.1	2935.5	2569.3	2335.1	2318.9	2554.6	2996.6	3038.3
35°	3898.3	3892.9	3824.9	3673.5	3353.6	3029.8	2699.1	2589.4	2810.4	3311.8	3285.6
37.5°	4147.1	4137.9	4098.5	4010.4	3790.9	3524.3	3070.0	2866.8	3086.2	3613.2	3496.5
40°	4605.4	4532.7	4397.5	4331.0	4232.9	3940.8	3364.4	3125.6	3372.1	3900.6	3678.9
42.5°	5164.0	5045.8	4793.9	4702.7	4688.8	4269.2	3565.3	3376.7	3660.3	4185.8	3858.1
45°	5603.7	5492.4	5275.3	5160.2	5211.2	4566.7	3767.0	3644.9	3957.1	4484.8	4042.8
47.5°	6072.7	5898.1	5610.7	5645.4	5756.7	4848.0	3972.5	3933.1	4282.4	4819.4	4272.3
50°	6089.7	5956.1	5830.1	6038.0	6211.1	5106.8	4229.8	4235.2	4680.3	5240.5	4577.5
52.5°	5736.6	5708.0	5908.2	6235.0	6484.6	5311.6	4522.7	4547.4	5189.5	5724.2	4912.9
55°	5613.0	5580.5	5811.6	6166.2	6521.7	5480.8	4840.3	4885.1	5805.4	6234.2	5239.8
57.5°	5914.3	5842.5	5857.9	6133.8	6431.3	5666.3	5186.4	5276.8	6474.5	6680.1	5449.9
60°	6756.6	6602.8	6310.7	6303.8	6480.0	5944.5	5586.7	5697.2	7170.0	6893.4	5368.0
62.5°	7938.1	7784.3	7237.2	6881.0	6854.7	6403.5	6078.1	6107.5	7571.8	6604.4	4868.1
65°	9216.9	9079.4	8468.1	7965.1	7722.5	7163.8	6649.2	6290.6	7440.4	5809.2	3993.4
67.5°	10769.3	10621.7	10096.2	9631.8	9398.5	8390.9	7050.2	6115.2	6606.7	4500.3	2870.6
70°	11854.9	11704.3	11497.2	11873.5	12444.5	10161.2	7102.0	5402.0	4934.5	2991.2	1727.8
72.5°	10438.6	10368.2	10746.1	12330.9	14709.3	11235.2	6419.7	3933.1	2866.0	1587.9	999.9
73°	9563.8	9548.4	10192.8	12010.3	14725.6	11069.9	6120.6	3655.7	2458.0	1404.8	914.1
75°	4318.7	4443.1	5855.6	9173.6	12793.8	9121.9	4307.9	2097.1	1388.6	970.5	690.0
77.5°	1037.8	1081.0	1832.1	4356.5	8079.5	5436.0	1951.9	1037.0	887.8	685.4	503.8
80°	442.0	456.7	705.5	1609.6	3804.1	2189.1	899.4	694.7	614.3	478.3	353.1
82.5°	245.7	261.2	400.3	730.2	1535.4	746.4	548.6	483.7	404.1	288.2	229.5
85°	139.1	147.6	234.1	408.0	650.6	299.8	328.4	321.4	227.9	148.4	112.8
87.5°	65.7	71.1	112.8	189.3	255.0	117.5	166.9	183.9	143.0	90.4	58.7
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°	2428.6	2428.6	2428.6	2428.6	2428.6	2428.6	2428.6	2428.6	2428.6	2428.6
2.5°	2427.1	2441.0	2457.2	2465.7	2473.4	2482.7	2492.0	2492.0	2493.5	2494.3
5°	2410.1	2438.7	2464.2	2475.0	2477.3	2477.3	2475.0	2462.6	2451.8	2456.4
7.5°	2374.5	2416.3	2437.9	2434.0	2404.7	2370.7	2342.1	2307.3	2289.5	2286.5
10°	2323.5	2371.5	2375.3	2336.7	2264.0	2191.4	2131.1	2072.4	2044.6	2037.6
12.5°	2267.1	2311.2	2286.5	2206.9	2090.2	1984.3	1907.8	1848.3	1822.1	1815.1
15°	2221.5	2251.7	2189.1	2063.9	1917.1	1805.1	1741.7	1697.6	1679.1	1673.7
17.5°	2197.6	2203.8	2089.4	1920.2	1764.1	1670.6	1631.2	1610.3	1603.4	1599.5
20°	2209.2	2165.9	1994.4	1786.5	1638.9	1573.2	1564.0	1558.6	1557.0	1554.7
22.5°	2267.1	2154.3	1907.1	1659.8	1529.2	1500.6	1508.3	1507.6	1506.0	1504.5
25°	2370.7	2164.4	1822.1	1539.2	1437.2	1431.1	1445.0	1445.0	1438.8	1438.8
27.5°	2507.4	2185.2	1727.0	1424.9	1353.8	1354.6	1365.4	1362.3	1355.3	1350.7
30°	2674.4	2198.4	1615.7	1322.1	1275.7	1272.7	1275.7	1262.6	1241.7	1240.2
32.5°	2845.1	2182.1	1486.7	1230.9	1193.1	1186.1	1183.8	1165.2	1141.3	1134.3
35°	2999.7	2122.6	1355.3	1158.3	1114.2	1098.8	1109.6	1103.4	1081.8	1076.4
37.5°	3112.5	2012.1	1237.1	1094.2	1057.8	1054.0	1060.9	1063.3	1037.8	1032.3
40°	3188.2	1862.2	1135.9	1040.1	1047.0	1032.3	1009.2	992.9	985.2	982.9
42.5°	3249.3	1706.1	1050.9	1014.6	1049.3	1006.8	956.6	930.3	944.3	950.4
45°	3319.6	1553.9	979.8	982.9	1037.8	977.5	920.3	894.8	900.2	901.8
47.5°	3416.2	1368.5	903.3	931.9	999.1	957.4	897.9	861.6	836.1	824.5
50°	3549.8	1149.0	823.7	874.7	961.3	942.7	863.1	824.5	777.3	766.5
52.5°	3642.6	944.3	758.0	826.8	927.3	913.3	835.3	785.1	735.6	726.3
55°	3592.3	784.3	700.8	773.5	882.4	877.0	812.1	744.9	706.3	698.5
57.5°	3341.2	683.1	656.8	723.3	827.6	846.1	781.2	710.9	683.1	677.7
60°	2862.1	619.7	629.0	689.3	782.8	815.2	750.3	692.3	673.8	669.9
62.5°	2220.8	577.2	608.1	664.5	748.0	793.6	733.3	690.0	683.1	678.4
65°	1591.0	543.2	585.7	639.8	716.3	773.5	727.1	686.9	688.5	684.6
67.5°	1081.0	513.1	558.7	612.0	685.4	755.7	718.6	676.1	695.4	690.8
70°	756.5	483.7	527.0	576.4	646.8	731.0	703.2	659.9	658.4	639.8
72.5°	590.4	445.1	483.7	527.0	597.3	696.2	672.3	623.6	598.1	578.8
73°	563.3	435.8	472.9	516.2	586.5	687.7	663.8	613.5	584.9	567.2
75°	465.9	395.6	429.6	468.3	540.1	647.5	622.0	567.9	531.6	520.8
77.5°	366.3	338.4	370.9	405.7	476.0	588.8	560.2	508.4	488.4	479.1
80°	271.2	280.5	309.1	340.0	412.6	526.2	500.7	448.9	538.6	516.2
82.5°	190.9	212.5	238.8	266.6	346.2	465.2	434.3	380.9	394.1	327.6
85°	112.8	139.1	163.8	187.8	249.6	385.6	358.5	303.7	248.8	237.2
87.5°	65.7	77.3	84.2	109.0	171.5	290.5	252.7	224.9	129.0	87.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)