

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: P192321

Luminaire Tested: **GLEON-AF-03-LED-E1-T4FT-7050-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192321
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-7050-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 5000K, 800mA 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: 14770 lumens
Efficiency: N/A
Efficacy: 119.1 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): 124
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

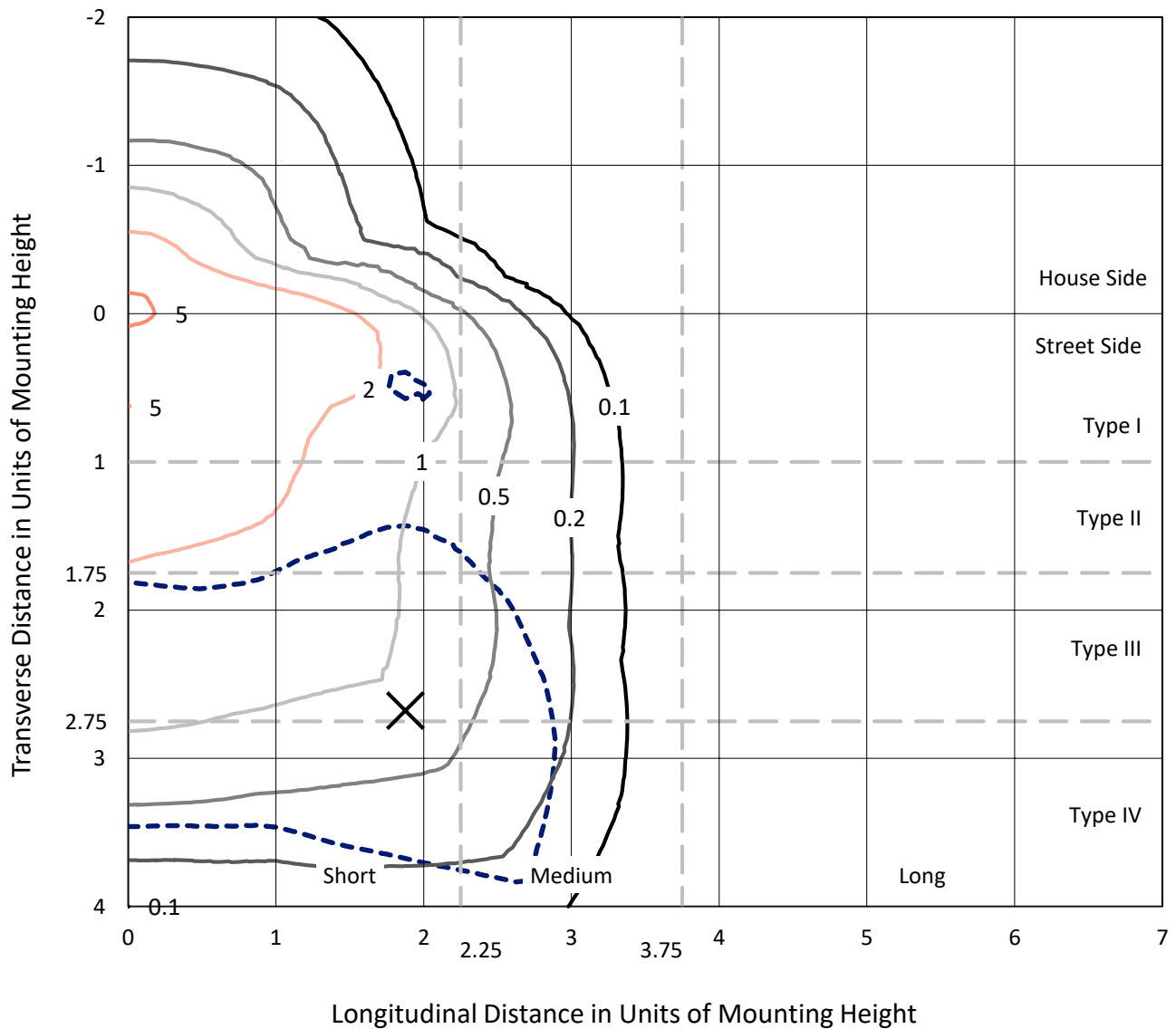


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

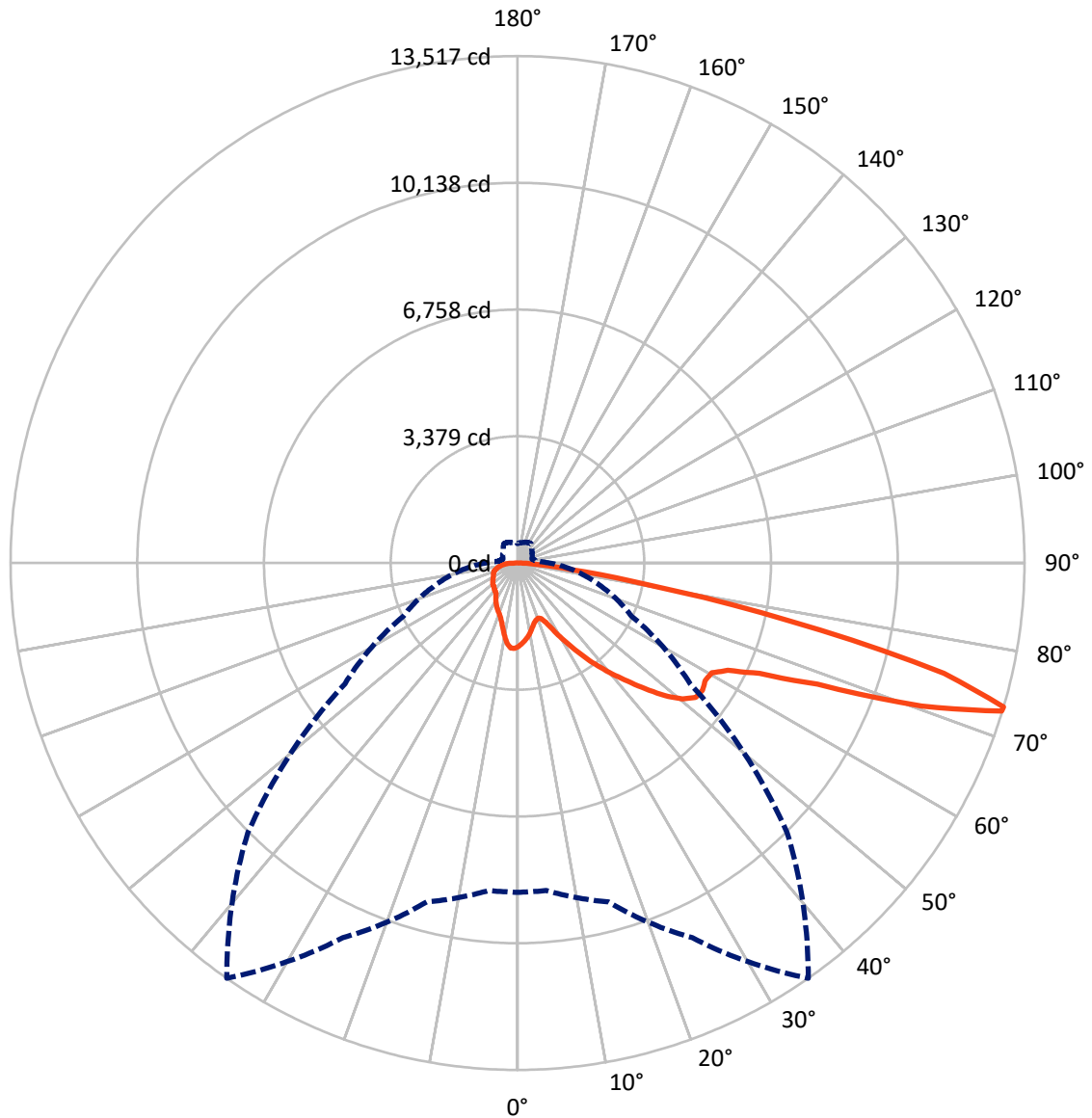


Based on 20 foot mounting height. Maximum calculated value = 5.6 fc
 Type IV - Short - Non-Cutoff

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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	2817.1	0.0	2817.1
	% Fixture	19.1	0.0	19.1
Street Side	Lumens	11953.0	0.0	11953.0
	% Fixture	80.9	0.0	80.9
Total	Lumens	14770.0	0.0	14770.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	201.8	1.4
10°-20°	503.7	3.4
20°-30°	814.3	5.5
30°-40°	1365.5	9.2
40°-50°	2104.8	14.3
50°-60°	2823.8	19.1
60°-70°	3761.8	25.5
70°-80°	2869.2	19.4
80°-90°	325.2	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°	14770.0	100.0
0°-180°	14770.0	100.0



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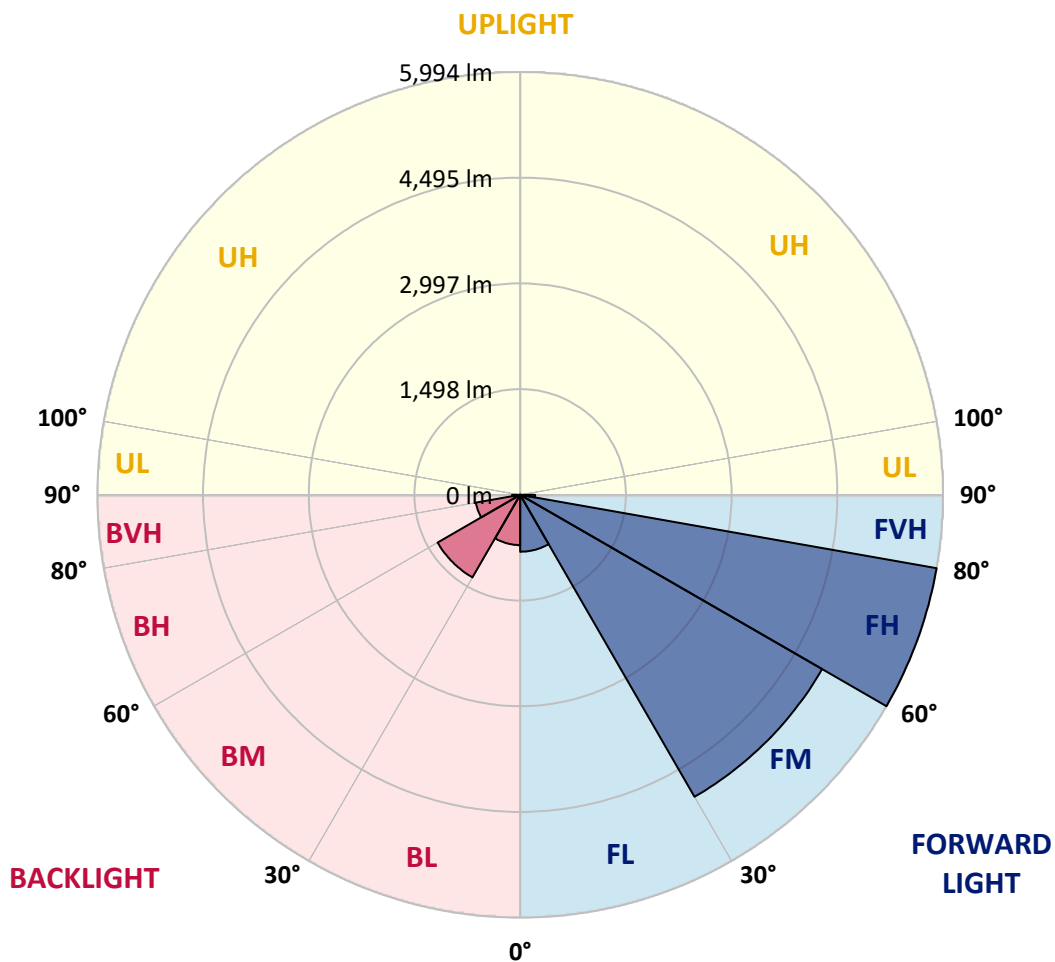
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	806.9	5.5			
FM	(30°-60°)	4942.1	33.5			
FH	(60°-80°)	5993.7	40.6			G3/7500
FVH	(80°-90°)	210.2	1.4			G2/225
BL	(0°-30°)	712.9	4.8	B2/1000		
BM	(30°-60°)	1351.9	9.2	B2/2500		
BH	(60°-80°)	637.3	4.3	B2/1000		G2/1000
BVH	(80°-90°)	115.0	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°	2229.3	2229.3	2229.3	2229.3	2229.3	2229.3	2229.3	2229.3	2229.3	2229.3	2229.3
2.5°	2141.3	2145.6	2140.6	2147.0	2157.6	2169.0	2176.8	2188.1	2200.9	2218.6	2222.9
5°	2040.6	2047.0	2047.0	2058.3	2078.9	2097.3	2114.3	2132.8	2159.7	2190.2	2202.3
7.5°	1929.9	1933.5	1939.9	1956.9	1986.7	2012.9	2037.0	2066.8	2103.7	2144.1	2165.4
10°	1796.6	1801.6	1811.5	1835.6	1876.0	1912.2	1947.0	1988.1	2034.9	2085.3	2112.2
12.5°	1702.3	1700.8	1705.1	1722.8	1758.3	1802.3	1852.6	1905.1	1962.6	2021.4	2054.1
15°	1670.3	1662.5	1646.2	1642.0	1661.1	1705.1	1763.3	1827.8	1896.6	1967.5	2008.0
17.5°	1690.2	1676.7	1632.0	1599.4	1596.6	1629.9	1691.6	1764.0	1843.4	1929.9	1980.3
20°	1815.0	1783.1	1673.2	1597.3	1571.0	1587.4	1641.3	1717.9	1811.5	1926.4	1990.9
22.5°	2113.6	2066.8	1833.5	1692.3	1603.7	1583.8	1624.2	1705.8	1815.0	1970.4	2052.6
25°	2548.4	2481.8	2108.7	1929.2	1746.2	1640.6	1649.8	1733.5	1865.4	2072.5	2171.8
27.5°	2891.7	2848.4	2468.3	2263.3	2005.8	1793.8	1732.8	1803.0	1968.2	2239.9	2341.3
30°	3096.0	3069.7	2852.7	2642.0	2337.1	2037.7	1891.6	1933.5	2129.2	2471.8	2555.5
32.5°	3332.9	3317.3	3210.9	3017.3	2694.5	2358.3	2143.4	2128.5	2344.9	2750.6	2788.9
35°	3578.3	3573.3	3510.9	3371.9	3078.3	2781.1	2477.5	2376.8	2579.6	3040.0	3015.8
37.5°	3806.7	3798.2	3762.0	3681.1	3479.7	3235.0	2818.0	2631.4	2832.8	3316.6	3209.5
40°	4227.3	4160.6	4036.5	3975.5	3885.4	3617.3	3088.2	2869.0	3095.3	3580.4	3376.9
42.5°	4740.1	4631.6	4400.3	4316.6	4303.9	3918.7	3272.6	3099.5	3359.8	3842.1	3541.4
45°	5143.7	5041.5	4842.2	4736.5	4783.4	4191.8	3457.7	3345.7	3632.2	4116.6	3710.9
47.5°	5574.2	5413.9	5150.0	5182.0	5284.1	4450.0	3646.4	3610.2	3930.8	4423.7	3921.6
50°	5589.8	5467.1	5351.5	5542.3	5701.2	4687.6	3882.6	3887.5	4296.1	4810.3	4201.7
52.5°	5265.7	5239.4	5423.1	5723.1	5952.2	4875.6	4151.4	4174.1	4763.5	5254.3	4509.6
55°	5152.2	5122.4	5334.5	5660.0	5986.3	5030.9	4442.9	4484.0	5328.8	5722.4	4809.6
57.5°	5428.8	5362.8	5377.0	5630.2	5903.3	5201.1	4760.7	4843.6	5943.0	6131.7	5002.5
60°	6201.9	6060.8	5792.7	5786.3	5948.0	5456.5	5128.1	5229.5	6581.4	6327.4	4927.3
62.5°	7286.4	7145.2	6643.1	6316.1	6292.0	5877.8	5579.2	5606.1	6950.2	6062.2	4468.4
65°	8460.2	8334.0	7772.9	7311.2	7088.5	6575.7	6103.3	5774.2	6829.6	5332.3	3665.5
67.5°	9885.2	9749.7	9267.4	8841.1	8626.9	7702.0	6471.4	5613.2	6064.3	4130.8	2635.0
70°	10881.7	10743.4	10553.3	10898.7	11422.9	9327.0	6518.9	4958.5	4529.4	2745.6	1585.9
72.5°	9581.6	9517.1	9863.9	11318.6	13501.8	10312.9	5892.7	3610.2	2630.7	1457.6	917.8
73°	8778.7	8764.5	9356.0	11024.3	13516.7	10161.1	5618.2	3355.6	2256.2	1289.5	839.1
75°	3964.1	4078.3	5374.9	8420.5	11743.5	8373.0	3954.2	1925.0	1274.6	890.8	633.4
77.5°	952.6	992.3	1681.7	3998.9	7416.2	4989.8	1791.6	951.8	815.0	629.1	462.4
80°	405.7	419.2	647.6	1477.4	3491.8	2009.4	825.6	637.6	563.9	439.0	324.1
82.5°	225.5	239.7	367.4	670.3	1409.3	685.2	503.6	444.0	371.0	264.6	210.7
85°	127.7	135.5	214.9	374.5	597.2	275.2	301.4	295.1	209.2	136.2	103.6
87.5°	60.3	65.3	103.6	173.8	234.1	107.8	153.2	168.8	131.2	83.0	53.9
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°	2229.3	2229.3	2229.3	2229.3	2229.3	2229.3	2229.3	2229.3	2229.3	2229.3
2.5°	2227.8	2240.6	2255.5	2263.3	2270.4	2278.9	2287.4	2287.4	2288.8	2289.5
5°	2212.2	2238.5	2261.9	2271.8	2273.9	2273.9	2271.8	2260.5	2250.5	2254.8
7.5°	2179.6	2217.9	2237.8	2234.2	2207.3	2176.1	2149.8	2117.9	2101.6	2098.7
10°	2132.8	2176.8	2180.3	2144.8	2078.2	2011.5	1956.2	1902.3	1876.7	1870.4
12.5°	2081.0	2121.4	2098.7	2025.7	1918.6	1821.4	1751.2	1696.6	1672.5	1666.1
15°	2039.2	2066.8	2009.4	1894.5	1759.7	1656.9	1598.7	1558.3	1541.3	1536.3
17.5°	2017.2	2022.9	1917.9	1762.5	1619.3	1533.5	1497.3	1478.1	1471.7	1468.2
20°	2027.8	1988.1	1830.6	1639.8	1504.4	1444.1	1435.6	1430.6	1429.2	1427.1
22.5°	2081.0	1977.5	1750.5	1523.5	1403.7	1377.4	1384.5	1383.8	1382.4	1381.0
25°	2176.1	1986.7	1672.5	1412.9	1319.3	1313.6	1326.3	1326.3	1320.7	1320.7
27.5°	2301.6	2005.8	1585.2	1307.9	1242.7	1243.4	1253.3	1250.5	1244.1	1239.8
30°	2454.8	2017.9	1483.1	1213.6	1171.0	1168.2	1171.0	1159.0	1139.8	1138.4
32.5°	2611.6	2003.0	1364.6	1129.9	1095.1	1088.7	1086.6	1069.6	1047.6	1041.2
35°	2753.4	1948.4	1244.1	1063.2	1022.8	1008.6	1018.5	1012.8	993.0	988.0
37.5°	2857.0	1847.0	1135.5	1004.3	971.0	967.5	973.8	976.0	952.6	947.6
40°	2926.5	1709.4	1042.6	954.7	961.1	947.6	926.3	911.4	904.3	902.2
42.5°	2982.5	1566.1	964.6	931.3	963.2	924.2	878.1	854.0	866.7	872.4
45°	3047.0	1426.4	899.4	902.2	952.6	897.2	844.7	821.3	826.3	827.7
47.5°	3135.7	1256.1	829.1	855.4	917.1	878.8	824.2	790.8	767.4	756.8
50°	3258.4	1054.7	756.1	802.9	882.3	865.3	792.3	756.8	713.5	703.6
52.5°	3343.5	866.7	695.8	758.9	851.1	838.4	766.7	720.6	675.2	666.7
55°	3297.4	719.9	643.3	710.0	810.0	805.0	745.4	683.7	648.3	641.2
57.5°	3066.9	627.0	602.9	663.9	759.6	776.7	717.1	652.5	627.0	622.0
60°	2627.2	568.8	577.3	632.7	718.5	748.3	688.7	635.5	618.5	614.9
62.5°	2038.5	529.8	558.2	610.0	686.6	728.4	673.1	633.4	627.0	622.7
65°	1460.4	498.6	537.6	587.3	657.5	710.0	667.4	630.5	632.0	628.4
67.5°	992.3	471.0	512.8	561.7	629.1	693.7	659.6	620.6	638.3	634.1
70°	694.4	444.0	483.7	529.1	593.7	671.0	645.4	605.7	604.3	587.3
72.5°	541.9	408.5	444.0	483.7	548.3	639.1	617.1	572.4	549.0	531.2
73°	517.1	400.0	434.1	473.8	538.3	631.3	609.3	563.2	536.9	520.6
75°	427.7	363.1	394.4	429.8	495.8	594.4	571.0	521.3	488.0	478.1
77.5°	336.2	310.7	340.5	372.4	436.9	540.5	514.2	466.7	448.3	439.8
80°	249.0	257.5	283.7	312.1	378.8	483.0	459.6	412.1	494.4	473.8
82.5°	175.2	195.1	219.2	244.7	317.8	427.0	398.6	349.7	361.7	300.7
85°	103.6	127.7	150.4	172.4	229.1	353.9	329.1	278.7	228.4	217.7
87.5°	60.3	70.9	77.3	100.0	157.5	266.7	231.9	206.4	118.4	80.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)