

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: P192340

Luminaire Tested: **GLEON-AF-02-LED-E1-T4FT-7050-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192340
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-02-LED-E1-T4FT-7050-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 5000K, 1200mA 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: 13440 lumens
Efficiency: N/A
Efficacy: 104.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B2 - U0 - G3

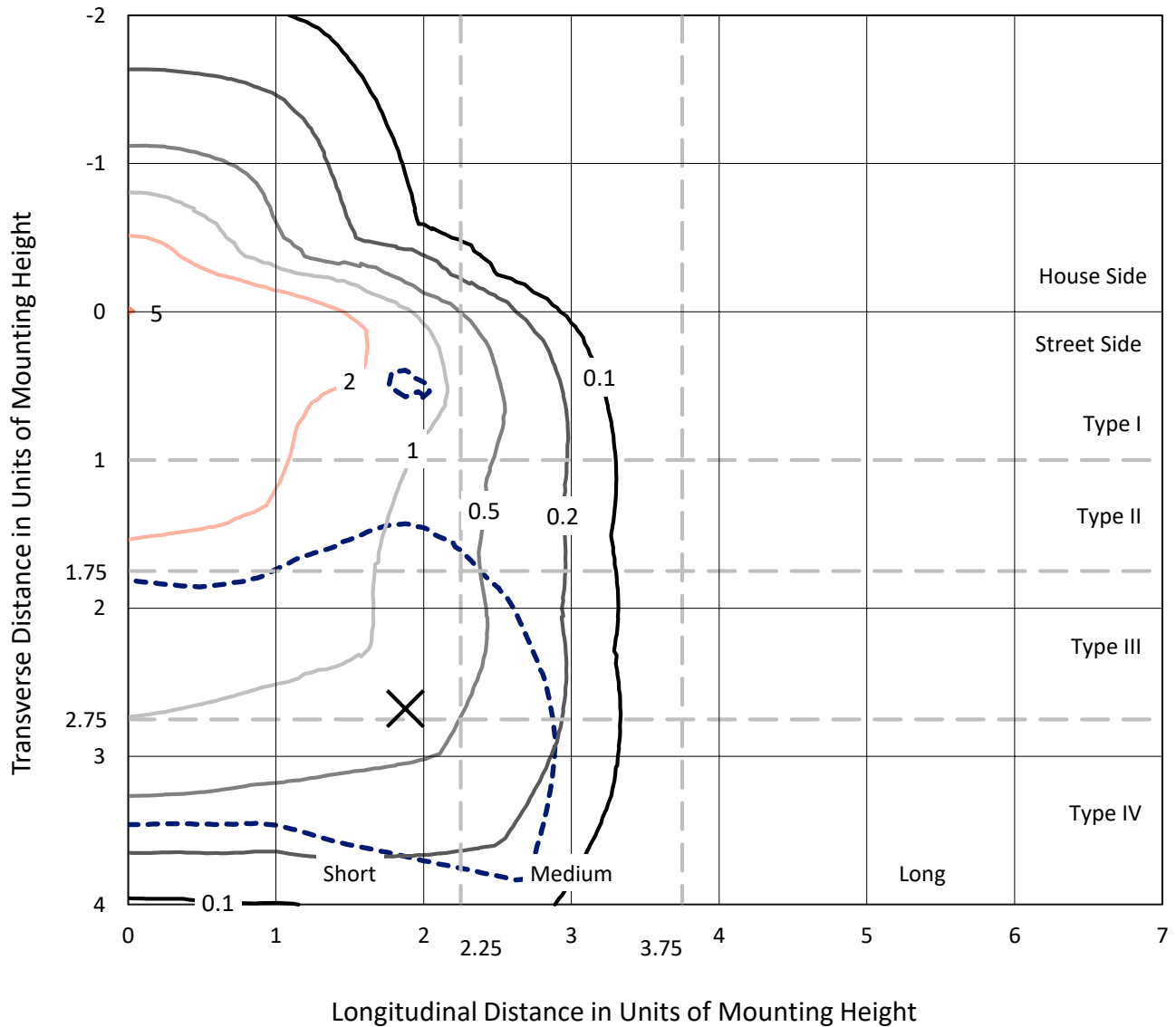
Input Watts (W): 129
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

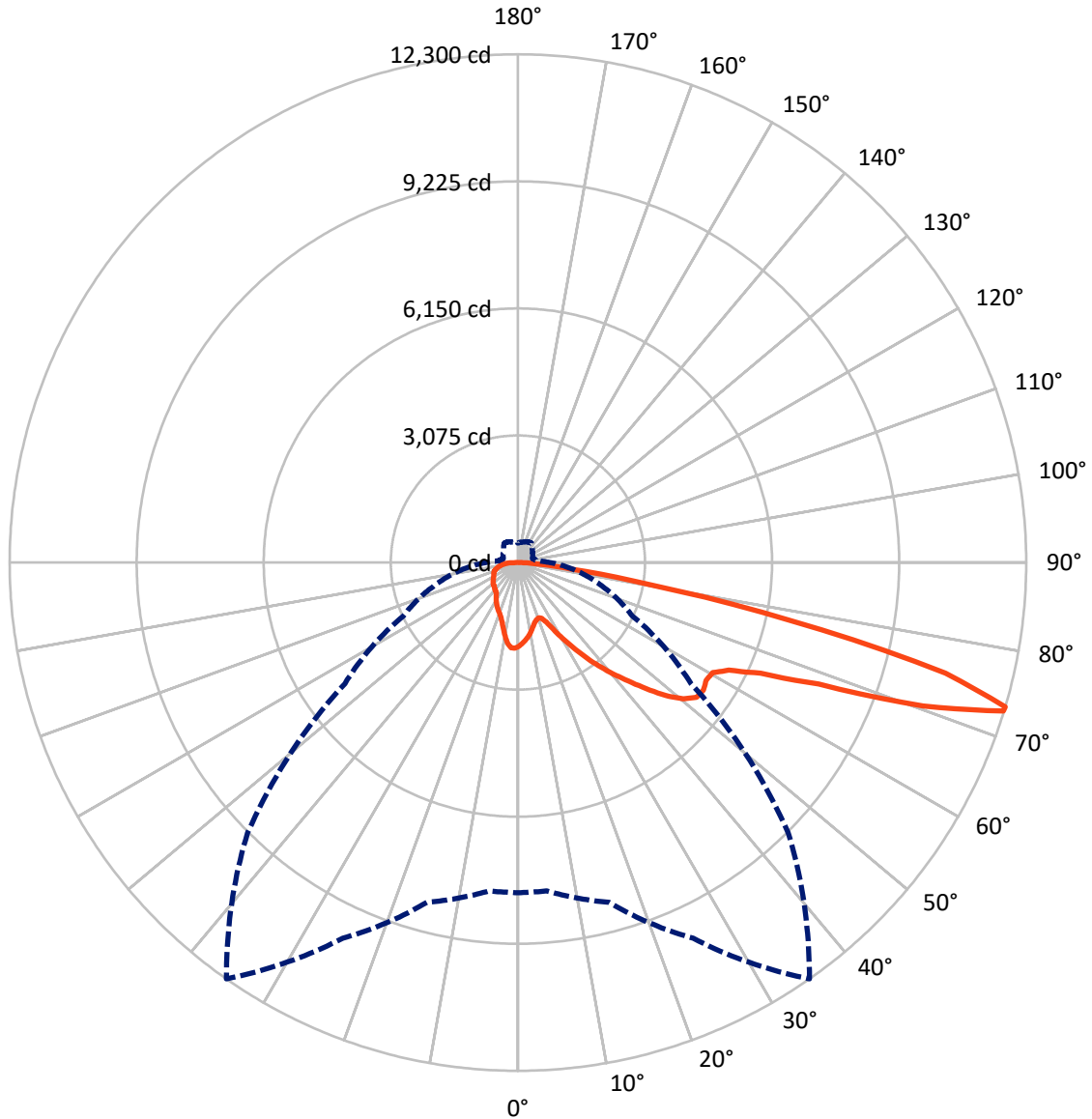
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 5.1 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	2563.4	0.0	2563.4
	% Fixture	19.1	0.0	19.1
Street Side	Lumens	10876.6	0.0	10876.6
	% Fixture	80.9	0.0	80.9
Total	Lumens	13440.0	0.0	13440.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	183.6	1.4
10°-20°	458.3	3.4
20°-30°	741.0	5.5
30°-40°	1242.5	9.2
40°-50°	1915.2	14.3
50°-60°	2569.5	19.1
60°-70°	3423.1	25.5
70°-80°	2610.8	19.4
80°-90°	295.9	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°	13440.0	100.0
0°-180°	13440.0	100.0

Coefficient of Utilization



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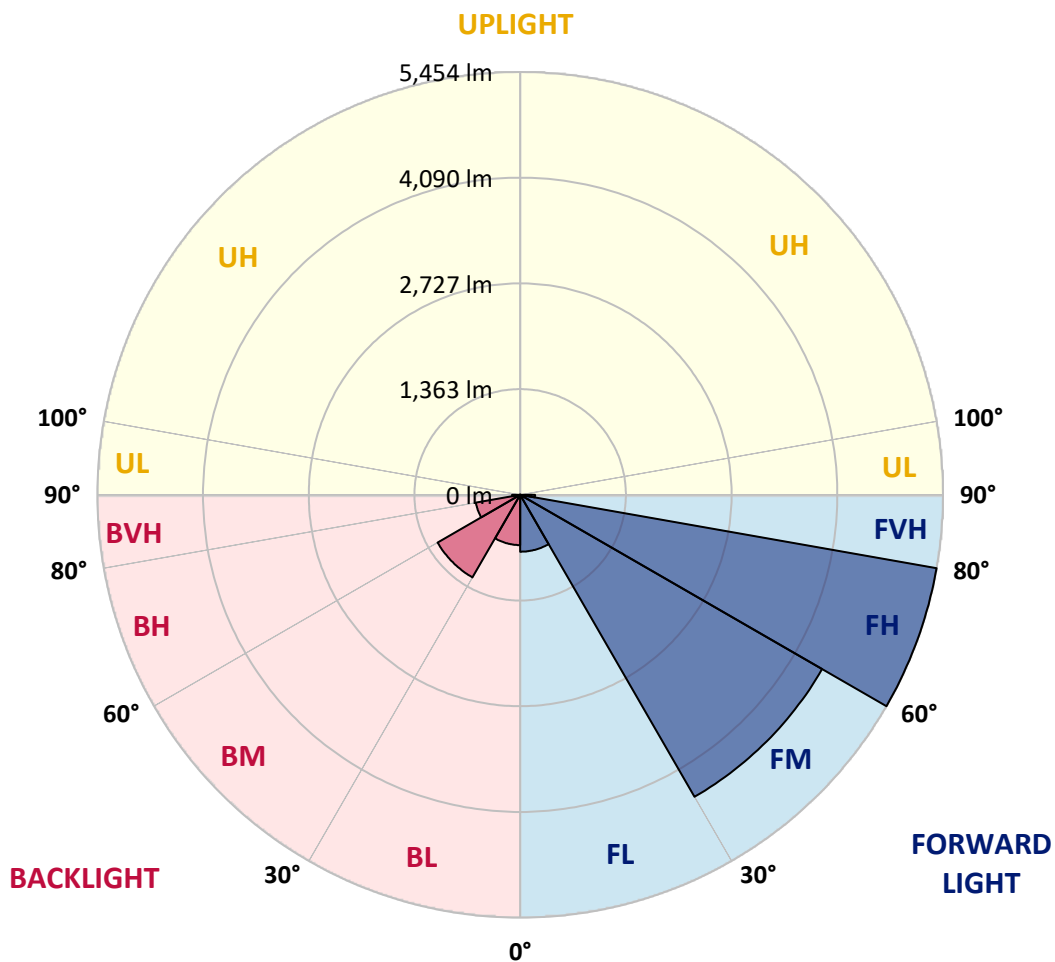
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	734.3	5.5			
FM	(30°-60°)	4497.1	33.5			
FH	(60°-80°)	5453.9	40.6			G3/7500
FVH	(80°-90°)	191.3	1.4			G2/225
BL	(0°-30°)	648.7	4.8	B2/1000		
BM	(30°-60°)	1230.1	9.2	B2/2500		
BH	(60°-80°)	579.9	4.3	B2/1000		G2/1000
BVH	(80°-90°)	104.6	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°	2028.5	2028.5	2028.5	2028.5	2028.5	2028.5	2028.5	2028.5	2028.5	2028.5	2028.5
2.5°	1948.5	1952.4	1947.8	1953.6	1963.3	1973.7	1980.8	1991.1	2002.7	2018.8	2022.7
5°	1856.8	1862.6	1862.6	1873.0	1891.7	1908.5	1924.0	1940.7	1965.3	1993.0	2004.0
7.5°	1756.2	1759.4	1765.2	1780.7	1807.8	1831.7	1853.6	1880.7	1914.3	1951.1	1970.4
10°	1634.8	1639.3	1648.4	1670.3	1707.1	1740.0	1771.6	1809.1	1851.7	1897.5	1922.0
12.5°	1549.0	1547.7	1551.6	1567.7	1600.0	1640.0	1685.8	1733.6	1785.8	1839.4	1869.1
15°	1519.9	1512.8	1498.0	1494.1	1511.5	1551.6	1604.5	1663.2	1725.8	1790.4	1827.1
17.5°	1538.0	1525.7	1485.1	1455.4	1452.8	1483.1	1539.3	1605.1	1677.4	1756.2	1802.0
20°	1651.6	1622.6	1522.5	1453.5	1429.6	1444.4	1493.5	1563.2	1648.4	1752.9	1811.7
22.5°	1923.3	1880.7	1668.4	1539.9	1459.3	1441.2	1478.0	1552.2	1651.6	1792.9	1867.8
25°	2318.9	2258.3	1918.8	1755.5	1589.0	1492.8	1501.2	1577.4	1697.4	1885.9	1976.2
27.5°	2631.3	2592.0	2246.0	2059.5	1825.2	1632.2	1576.7	1640.6	1791.0	2038.2	2130.5
30°	2817.2	2793.3	2595.8	2404.1	2126.6	1854.3	1721.3	1759.4	1937.5	2249.2	2325.4
32.5°	3032.8	3018.6	2921.8	2745.6	2451.9	2146.0	1950.4	1936.9	2133.7	2502.9	2537.7
35°	3256.1	3251.6	3194.8	3068.3	2801.1	2530.6	2254.4	2162.8	2347.3	2766.2	2744.3
37.5°	3463.9	3456.2	3423.2	3349.7	3166.4	2943.7	2564.2	2394.5	2577.8	3017.9	2920.5
40°	3846.6	3786.0	3673.0	3617.5	3535.5	3291.6	2810.1	2610.7	2816.6	3258.0	3072.8
42.5°	4313.3	4214.5	4004.1	3927.9	3916.3	3565.9	2977.9	2820.4	3057.3	3496.2	3222.5
45°	4680.5	4587.6	4406.2	4310.0	4352.6	3814.4	3146.4	3044.4	3305.1	3745.9	3376.8
47.5°	5072.3	4926.4	4686.3	4715.3	4808.3	4049.3	3318.0	3285.1	3576.8	4025.4	3568.5
50°	5086.5	4974.8	4869.6	5043.2	5187.8	4265.5	3533.0	3537.5	3909.2	4377.1	3823.4
52.5°	4791.5	4767.6	4934.8	5207.8	5416.3	4436.5	3777.6	3798.2	4334.6	4781.2	4103.5
55°	4688.2	4661.1	4854.1	5150.3	5447.2	4577.9	4042.8	4080.3	4848.9	5207.1	4376.5
57.5°	4939.9	4879.9	4892.8	5123.2	5371.7	4732.8	4332.0	4407.5	5407.9	5579.5	4552.1
60°	5643.4	5515.0	5271.0	5265.2	5412.4	4965.1	4666.3	4758.6	5988.7	5757.7	4483.6
62.5°	6630.3	6501.8	6044.9	5747.3	5725.4	5348.5	5076.8	5101.3	6324.3	5516.3	4066.1
65°	7698.4	7583.5	7073.0	6652.9	6450.2	5983.6	5553.7	5254.3	6214.6	4852.2	3335.5
67.5°	8995.0	8871.8	8432.9	8045.0	7850.1	7008.5	5888.7	5107.7	5518.2	3758.8	2397.7
70°	9901.8	9776.0	9603.0	9917.3	10394.3	8487.1	5931.9	4512.0	4121.6	2498.4	1443.1
72.5°	8718.8	8660.1	8975.7	10299.4	12286.0	9384.2	5362.0	3285.1	2393.8	1326.3	835.2
73°	7988.2	7975.3	8513.6	10031.6	12299.5	9246.1	5112.3	3053.4	2053.0	1173.3	763.5
75°	3607.2	3711.1	4890.9	7662.3	10686.0	7619.0	3598.1	1751.6	1159.8	810.6	576.3
77.5°	866.8	902.9	1530.3	3638.8	6748.4	4540.4	1630.3	866.1	741.6	572.5	420.8
80°	369.2	381.4	589.3	1344.4	3177.3	1828.4	751.3	580.2	513.1	399.5	295.0
82.5°	205.2	218.1	334.3	609.9	1282.4	623.5	458.2	404.0	337.5	240.7	191.7
85°	116.2	123.3	195.6	340.8	543.4	250.4	274.3	268.5	190.4	123.9	94.2
87.5°	54.9	59.4	94.2	158.1	213.0	98.1	139.4	153.6	119.4	75.5	49.1
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°	2028.5	2028.5	2028.5	2028.5	2028.5	2028.5	2028.5	2028.5	2028.5	2028.5
2.5°	2027.2	2038.8	2052.4	2059.5	2065.9	2073.7	2081.4	2081.4	2082.7	2083.4
5°	2013.0	2036.9	2058.2	2067.2	2069.2	2069.2	2067.2	2056.9	2047.9	2051.7
7.5°	1983.3	2018.2	2036.3	2033.0	2008.5	1980.1	1956.2	1927.2	1912.3	1909.8
10°	1940.7	1980.8	1984.0	1951.7	1891.0	1830.4	1780.0	1731.0	1707.7	1701.9
12.5°	1893.6	1930.4	1909.8	1843.3	1745.8	1657.4	1593.5	1543.8	1521.9	1516.1
15°	1855.5	1880.7	1828.4	1723.9	1601.3	1507.7	1454.7	1418.0	1402.5	1398.0
17.5°	1835.5	1840.7	1745.2	1603.8	1473.5	1395.4	1362.5	1345.0	1339.2	1336.0
20°	1845.2	1809.1	1665.8	1492.2	1368.9	1314.0	1306.3	1301.8	1300.5	1298.6
22.5°	1893.6	1799.4	1592.9	1386.3	1277.3	1253.4	1259.8	1259.2	1257.9	1256.6
25°	1980.1	1807.8	1521.9	1285.7	1200.5	1195.3	1206.9	1206.9	1201.7	1201.7
27.5°	2094.3	1825.2	1442.5	1190.1	1130.8	1131.4	1140.4	1137.9	1132.0	1128.2
30°	2233.8	1836.2	1349.5	1104.3	1065.6	1063.0	1065.6	1054.6	1037.2	1035.9
32.5°	2376.4	1822.6	1241.8	1028.1	996.5	990.7	988.8	973.3	953.3	947.5
35°	2505.5	1772.9	1132.0	967.5	930.7	917.8	926.8	921.6	903.6	899.1
37.5°	2599.7	1680.6	1033.3	913.9	883.6	880.3	886.1	888.1	866.8	862.3
40°	2662.9	1555.4	948.7	868.7	874.5	862.3	842.9	829.3	822.9	821.0
42.5°	2713.9	1425.1	877.8	847.4	876.5	841.0	799.0	777.1	788.7	793.9
45°	2772.7	1297.9	818.4	821.0	866.8	816.4	768.7	747.4	751.9	753.2
47.5°	2853.3	1143.0	754.5	778.4	834.5	799.7	750.0	719.6	698.3	688.6
50°	2965.0	959.7	688.0	730.6	802.9	787.4	720.9	688.6	649.3	640.2
52.5°	3042.4	788.7	633.1	690.6	774.5	762.9	697.7	655.7	614.4	606.7
55°	3000.5	655.1	585.4	646.1	737.1	732.5	678.3	622.2	589.9	583.4
57.5°	2790.7	570.5	548.6	604.1	691.2	706.7	652.5	593.8	570.5	566.0
60°	2390.6	517.6	525.4	575.7	653.8	680.9	626.7	578.3	562.8	559.6
62.5°	1854.9	482.1	507.9	555.0	624.8	662.8	612.5	576.3	570.5	566.7
65°	1328.9	453.7	489.2	534.4	598.3	646.1	607.3	573.8	575.1	571.8
67.5°	902.9	428.6	466.6	511.2	572.5	631.2	600.2	564.7	580.9	577.0
70°	631.9	404.0	440.2	481.5	540.2	610.6	587.3	551.2	549.9	534.4
72.5°	493.1	371.8	404.0	440.2	498.9	581.5	561.5	520.8	499.5	483.4
73°	470.5	364.0	395.0	431.1	489.9	574.4	554.4	512.5	488.6	473.7
75°	389.2	330.4	358.8	391.1	451.1	540.9	519.6	474.4	444.0	435.0
77.5°	305.9	282.7	309.8	338.8	397.6	491.8	467.9	424.7	407.9	400.2
80°	226.5	234.3	258.2	284.0	344.6	439.5	418.2	375.0	449.8	431.1
82.5°	159.4	177.5	199.4	222.7	289.1	388.5	362.7	318.2	329.2	273.7
85°	94.2	116.2	136.8	156.8	208.5	322.1	299.5	253.6	207.8	198.1
87.5°	54.9	64.5	70.3	91.0	143.3	242.7	211.0	187.8	107.8	72.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)