

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: P269278

Luminaire Tested: **GLEON-AF-04-LED-E1-T4W-7027-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269278
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24147)
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-T4W-7027-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13648.5 lumens
Efficiency: N/A
Efficacy: 105.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-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

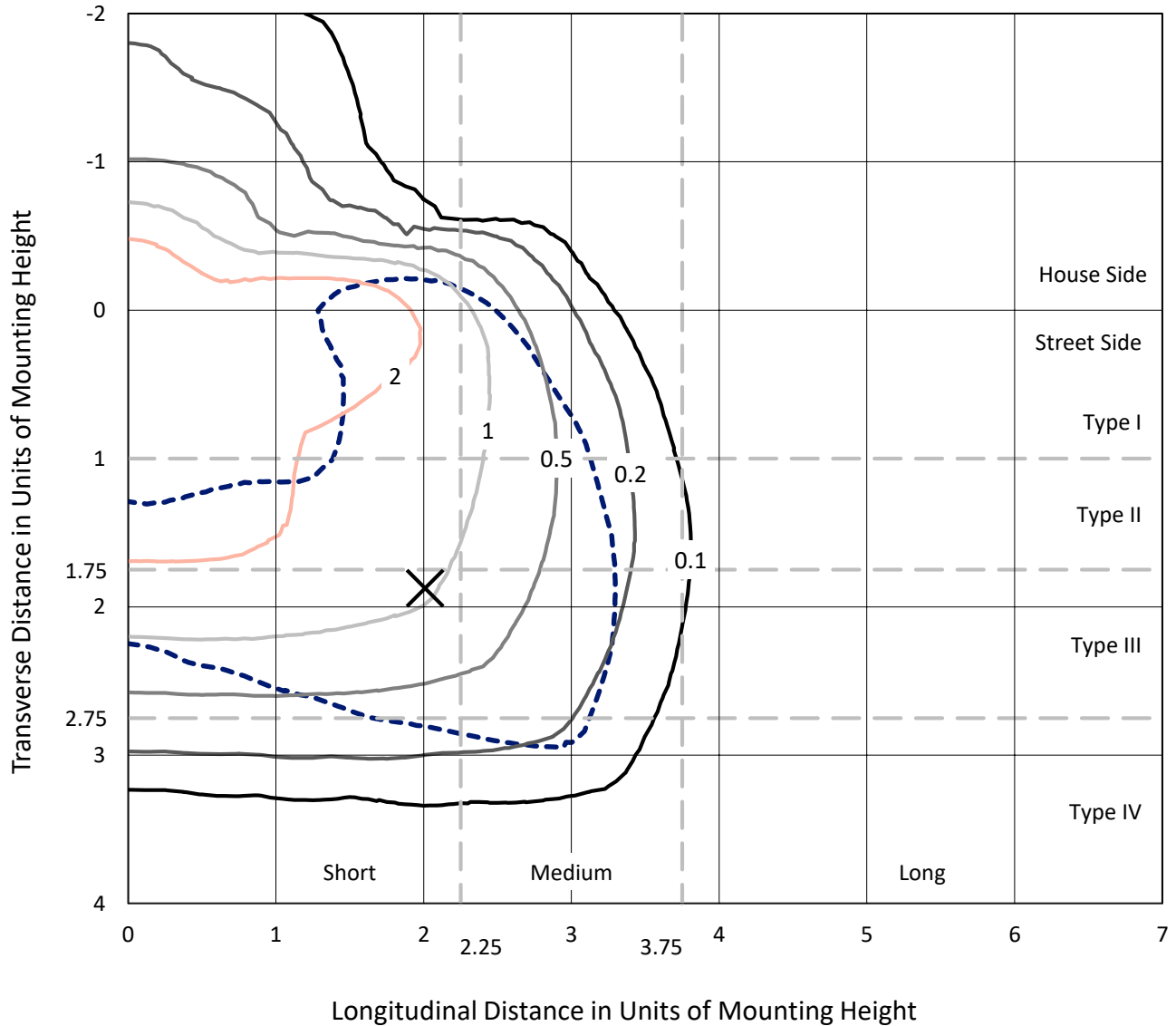


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

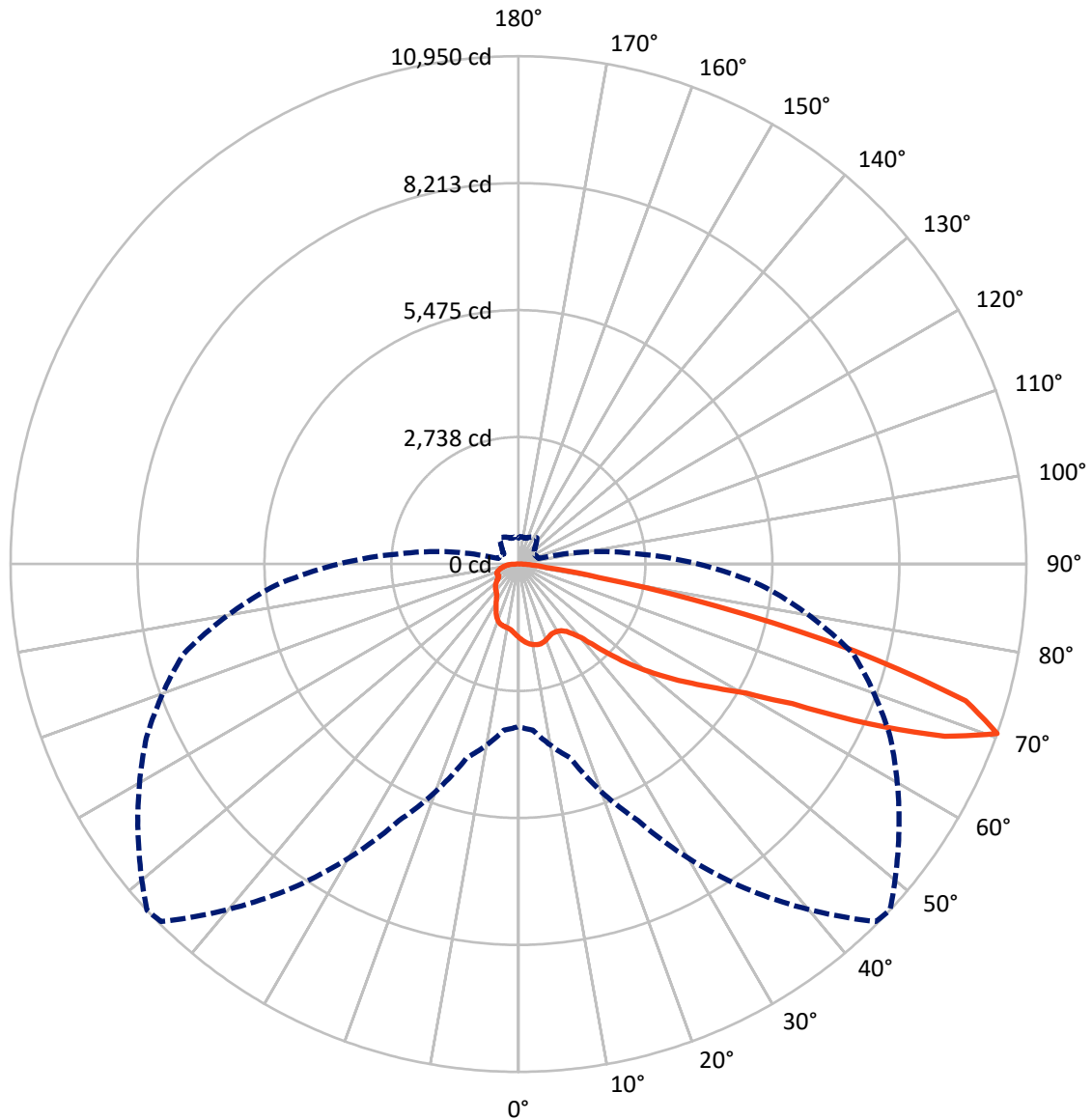


Based on 20 foot mounting height. Maximum calculated value = 4.6 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2847.4	0.0	2847.4
	% Fixture	20.9	0.0	20.9
Street Side	Lumens	10801.1	0.0	10801.1
	% Fixture	79.1	0.0	79.1
Total	Lumens	13648.5	0.0	13648.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	151.7	1.1
10°-20°	445.2	3.3
20°-30°	657.4	4.8
30°-40°	955.5	7.0
40°-50°	1719.6	12.6
50°-60°	2979.0	21.8
60°-70°	4251.9	31.2
70°-80°	2182.7	16.0
80°-90°	305.6	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°	13648.5	100.0
0°-180°	13648.5	100.0



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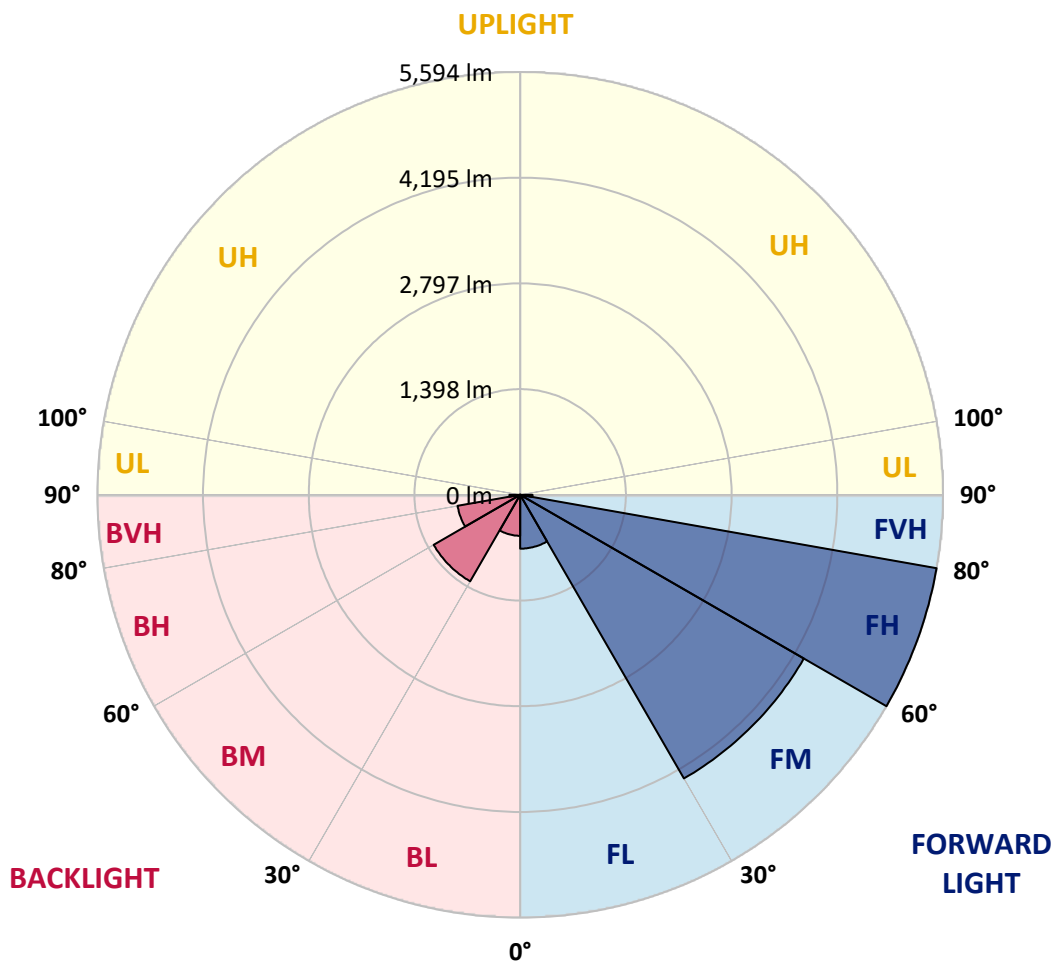
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	712.1	5.2			
FM	(30°-60°)	4332.4	31.7			
FH	(60°-80°)	5593.5	41.0			G3/7500
FVH	(80°-90°)	163.1	1.2			G2/225
BL	(0°-30°)	542.2	4.0	B2/1000		
BM	(30°-60°)	1321.7	9.7	B2/2500		
BH	(60°-80°)	841.0	6.2	B2/1000		G2/1000
BVH	(80°-90°)	142.5	1.0			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°	47°	55°	65°	75°	85°
0°	1583.6	1583.6	1583.6	1583.6	1583.6	1583.6	1583.6	1583.6	1583.6	1583.6	1583.6
2.5°	1676.5	1673.4	1671.9	1669.3	1665.9	1649.4	1646.1	1634.0	1617.5	1600.2	1582.4
5°	1786.8	1786.2	1778.9	1765.6	1744.2	1707.8	1699.1	1669.9	1630.9	1593.0	1555.1
7.5°	1883.7	1877.7	1863.9	1837.4	1800.2	1750.3	1738.4	1697.8	1644.1	1592.2	1541.1
10°	1954.8	1951.5	1920.9	1884.5	1836.0	1780.9	1767.0	1721.7	1662.7	1596.9	1533.1
12.5°	1995.3	1988.7	1953.5	1909.6	1851.9	1798.0	1784.2	1738.4	1671.9	1596.9	1521.9
15°	1992.7	1987.9	1952.8	1905.0	1846.6	1799.5	1786.8	1741.1	1669.9	1590.3	1507.3
17.5°	1939.6	1941.5	1911.7	1864.5	1816.7	1780.9	1769.7	1727.1	1656.7	1577.1	1490.0
20°	1846.6	1855.9	1836.0	1794.2	1767.5	1743.0	1735.7	1699.9	1636.2	1557.8	1471.5
22.5°	1753.6	1762.2	1754.3	1719.0	1715.1	1700.5	1696.4	1670.7	1618.1	1545.9	1460.1
25°	1685.2	1693.2	1691.9	1661.3	1673.4	1672.6	1669.3	1656.7	1614.2	1545.9	1462.1
27.5°	1666.6	1669.3	1666.6	1638.8	1655.3	1668.6	1665.9	1664.0	1626.1	1565.0	1487.4
30°	1730.3	1726.5	1705.8	1649.4	1664.6	1683.2	1680.5	1681.9	1662.0	1615.5	1543.7
32.5°	1984.7	1966.7	1901.7	1743.0	1702.5	1712.4	1713.7	1735.7	1738.9	1693.2	1631.4
35°	2365.1	2345.3	2260.9	1994.0	1820.1	1785.6	1785.6	1818.7	1838.7	1804.8	1767.5
37.5°	2768.2	2746.3	2701.2	2341.9	2067.0	1912.3	1909.0	1932.3	1960.8	1968.7	1978.1
40°	3226.4	3203.1	3215.8	2732.4	2411.7	2132.0	2085.0	2068.3	2145.4	2196.5	2270.8
42.5°	3727.7	3717.0	3721.8	3167.3	2804.1	2460.7	2393.8	2308.0	2401.0	2492.0	2648.1
45°	4191.9	4201.2	4196.5	3632.7	3241.1	2861.9	2790.9	2624.8	2715.8	2871.8	3126.1
47.5°	4598.2	4559.6	4619.4	4141.4	3730.4	3310.8	3223.1	3000.6	3093.0	3285.6	3715.7
50°	5091.6	5086.3	4998.6	4819.9	4321.9	3761.7	3646.7	3389.0	3532.6	3800.1	4458.7
52.5°	5610.2	5513.8	5433.6	5347.9	4949.5	4223.7	4082.9	3776.1	4049.1	4385.7	5364.5
55°	5716.5	5673.2	5772.9	5917.0	5554.4	4703.9	4539.8	4261.6	4630.8	5055.0	6409.0
57.5°	5943.5	5942.8	6148.7	6405.6	6177.3	5213.1	5047.8	4848.0	5284.8	5821.9	7517.8
60°	6096.8	6140.1	6522.6	7021.2	6788.9	5801.4	5649.4	5524.4	6028.4	6679.2	8551.1
62.5°	6177.3	6235.7	6757.6	7270.8	7653.3	6780.8	6628.8	6448.8	7012.6	7619.5	9155.3
65°	5843.2	5958.1	6721.1	7486.7	8410.3	8368.4	8300.1	7984.0	8242.9	8362.4	8936.8
67.5°	4918.8	5036.4	5925.0	7285.4	8950.8	9899.6	9914.2	9374.4	8999.8	8426.2	7513.9
70°	3504.6	3597.0	4331.9	6108.1	8539.1	10900.3	10950.1	10015.2	8849.2	7472.7	5249.6
72.5°	1664.0	1720.4	2416.4	3975.4	6776.2	9987.3	10083.6	9197.0	7524.6	5532.5	2863.8
75°	611.6	628.9	816.6	1691.1	3930.3	7365.2	7478.7	6592.9	4988.0	2754.4	1090.9
77.5°	366.5	377.7	458.1	713.9	1545.9	4209.7	4377.8	3585.7	2179.9	1025.2	536.5
80°	256.2	264.3	328.7	444.2	730.4	1604.3	1753.6	1463.5	868.5	648.8	390.5
82.5°	173.4	177.2	231.0	300.2	485.4	572.9	618.3	650.7	585.6	482.7	247.7
85°	113.5	117.5	156.8	197.8	308.7	296.1	302.8	383.1	427.7	328.1	137.4
87.5°	65.0	67.7	94.3	105.6	151.4	125.6	126.8	201.8	273.5	221.2	83.6
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1583.6	1583.6	1583.6	1583.6	1583.6	1583.6	1583.6	1583.6	1583.6	1583.6	1583.6
2.5°	1577.7	1569.0	1549.8	1537.8	1526.5	1523.9	1519.3	1518.6	1518.0	1518.0	1515.9
5°	1542.5	1527.8	1498.1	1481.3	1467.4	1466.2	1465.5	1468.8	1470.0	1471.5	1469.4
7.5°	1519.9	1500.0	1462.8	1438.8	1422.2	1418.3	1424.9	1440.3	1450.1	1454.1	1452.2
10°	1506.0	1481.3	1438.2	1412.3	1398.4	1396.3	1404.9	1422.9	1443.5	1451.5	1450.9
12.5°	1490.0	1462.1	1416.3	1389.0	1381.1	1385.0	1396.3	1413.0	1434.2	1446.9	1447.4
15°	1474.1	1441.6	1394.3	1370.5	1367.2	1372.5	1383.1	1395.7	1412.3	1424.9	1426.2
17.5°	1454.8	1420.9	1373.8	1349.3	1346.6	1349.3	1350.0	1356.6	1367.2	1379.2	1382.4
20°	1434.2	1399.6	1350.6	1326.0	1314.1	1303.4	1291.6	1292.8	1296.2	1308.1	1310.7
22.5°	1419.6	1385.0	1332.6	1298.8	1266.9	1235.0	1211.2	1207.9	1209.2	1219.1	1222.5
25°	1420.9	1384.5	1328.1	1269.6	1199.9	1148.8	1116.9	1111.6	1110.8	1118.2	1122.8
27.5°	1446.9	1410.3	1345.3	1239.8	1126.8	1051.1	1017.2	1013.3	1008.0	1010.0	1015.3
30°	1504.7	1470.7	1387.2	1209.2	1047.9	955.4	920.4	916.4	909.1	905.8	909.7
32.5°	1599.0	1571.0	1448.2	1180.0	968.8	873.8	837.9	829.3	824.7	820.7	824.0
35°	1755.6	1743.7	1529.9	1148.0	899.1	810.7	778.2	764.9	758.3	765.5	770.9
37.5°	2001.3	2007.9	1636.8	1098.3	845.2	768.9	741.7	726.4	716.5	722.4	728.4
40°	2349.2	2353.9	1755.0	1027.9	798.9	744.3	715.1	701.1	687.3	676.7	676.0
42.5°	2806.0	2759.0	1871.2	951.6	745.1	729.1	696.5	679.3	658.0	628.9	622.9
45°	3348.0	3182.5	1959.5	863.9	684.6	710.5	676.0	652.1	618.8	587.0	583.7
47.5°	3972.0	3637.3	2002.6	772.9	628.2	683.3	650.7	612.9	571.1	555.2	553.1
50°	4734.3	4177.3	2023.3	684.6	579.0	647.4	614.3	569.7	534.5	531.2	529.2
52.5°	5602.2	4826.7	2029.9	612.3	538.5	601.0	584.3	541.1	513.3	515.9	515.9
55°	6510.6	5497.3	1939.6	559.7	501.3	553.1	564.5	529.9	506.6	517.2	521.2
57.5°	7344.5	6091.5	1655.3	519.2	466.1	516.5	557.0	540.5	524.6	567.6	570.3
60°	7984.7	6442.9	1236.3	482.7	440.2	503.9	576.4	581.1	584.9	687.9	701.8
62.5°	8118.8	6326.0	849.9	454.2	428.3	514.5	611.6	612.3	607.6	679.3	687.9
65°	7503.3	5586.9	618.3	438.3	418.3	533.9	641.4	627.5	597.0	651.5	635.5
67.5°	5958.7	4209.1	514.5	426.2	403.7	532.5	673.3	641.4	590.9	638.1	612.3
70°	3867.8	2545.1	458.1	416.4	386.5	507.4	691.9	640.1	573.7	593.6	563.1
72.5°	1887.1	1138.2	420.2	401.7	368.6	472.1	691.2	628.2	555.8	554.4	537.8
75°	738.3	521.2	385.8	379.9	338.0	432.3	672.7	610.8	534.5	513.3	507.4
77.5°	432.3	371.9	342.0	347.3	301.4	392.4	645.4	581.1	505.2	480.1	473.4
80°	314.8	278.3	291.5	300.2	257.6	352.6	609.0	544.6	472.8	485.4	476.1
82.5°	201.8	179.3	236.3	245.0	214.4	312.2	569.0	505.9	427.0	387.8	378.5
85°	102.9	113.5	176.0	186.6	165.4	256.2	520.6	454.8	375.1	322.8	328.1
87.5°	57.9	77.8	112.2	125.6	116.9	197.2	422.4	375.1	306.1	249.0	219.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)