

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: P302835

Luminaire Tested: **GLNA-AF-03-LED-E1-T4W-7030-800**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P302835  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P191569)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GLNA-AF-03-LED-E1-T4W-7030-800  
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE  
(3) 70 CRI, 3000K CCT 800mA LIGHTSQUARE WITH 16 LEDS EACH AND Type IV  
Wide OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 14053.6 lumens  
Efficiency: N/A  
Efficacy: 113.3 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

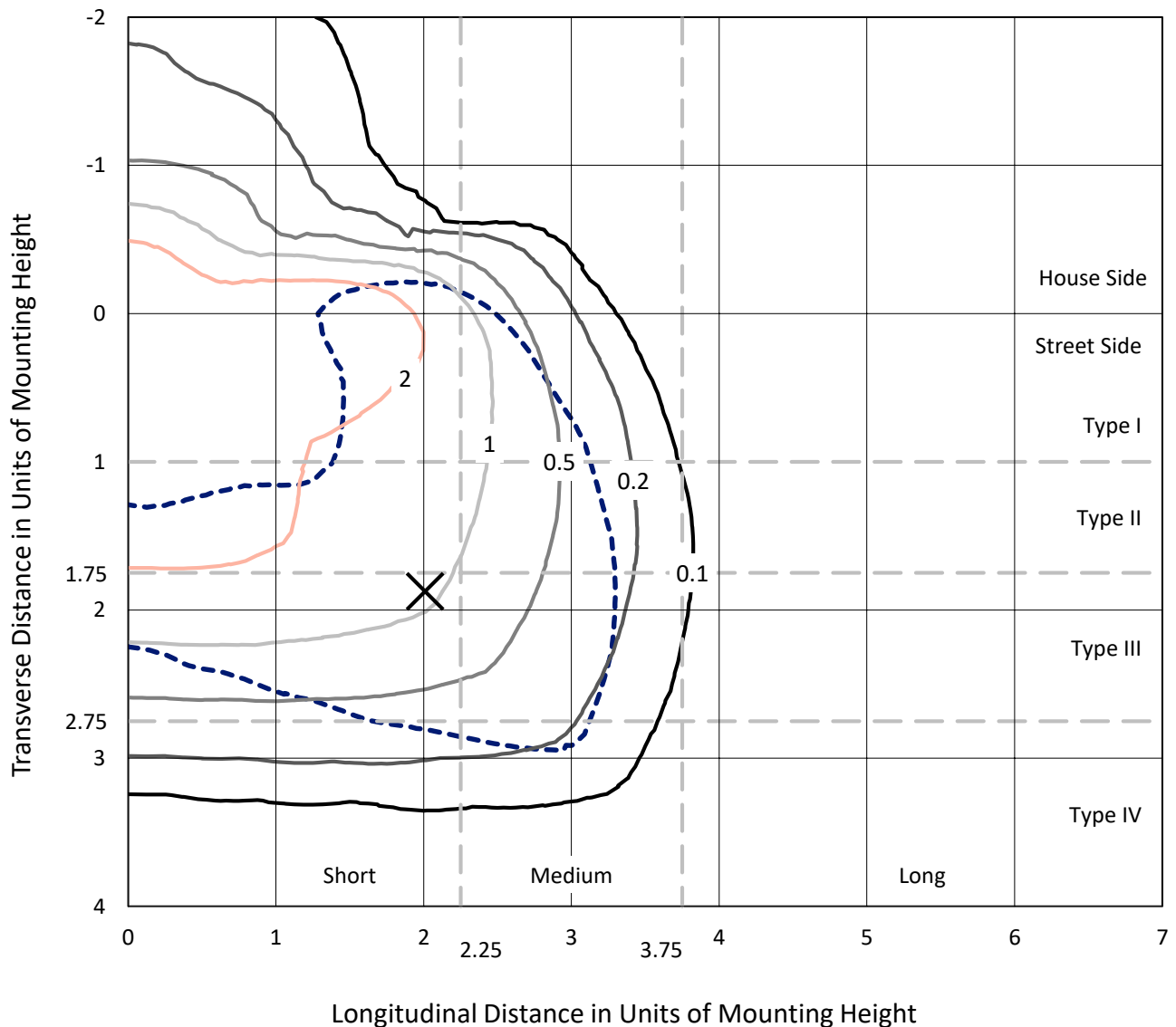
Input Watts (W): 124  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



REPORT NUMBER: P302835  
 CATALOG NUMBER: GLNA-AF-03-LED-E1-T4W-7030-800

### Iso-Footcandle Lines of Horizontal Illumination

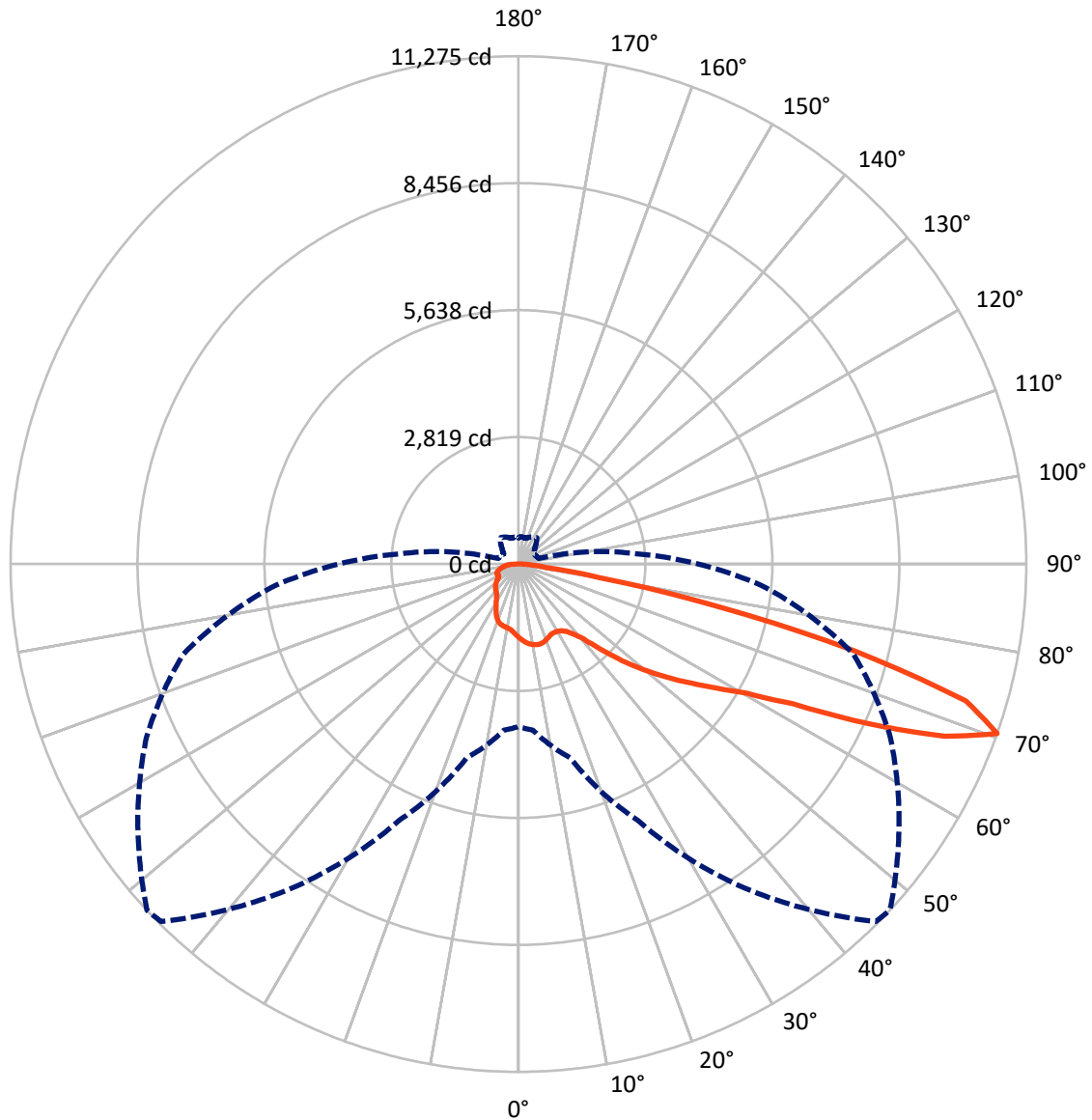
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 4.7 fc  
 Type IV - Short - Semi-Cutoff

REPORT NUMBER: P302835  
CATALOG NUMBER: GLNA-AF-03-LED-E1-T4W-7030-800

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P302835

CATALOG NUMBER: GLNA-AF-03-LED-E1-T4W-7030-800

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2931.8	0.0	2931.8
	% Fixture	20.9	0.0	20.9
<b>Street Side</b>	Lumens	11121.7	0.0	11121.7
	% Fixture	79.1	0.0	79.1
<b>Total</b>	Lumens	14053.6	0.0	14053.6
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	156.2	1.1
10°-20°	458.4	3.3
20°-30°	676.9	4.8
30°-40°	983.9	7.0
40°-50°	1770.6	12.6
50°-60°	3067.4	21.8
60°-70°	4378.1	31.2
70°-80°	2247.4	16.0
80°-90°	314.6	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°	14053.6	100.0
0°-180°	14053.6	100.0



REPORT NUMBER: P302835

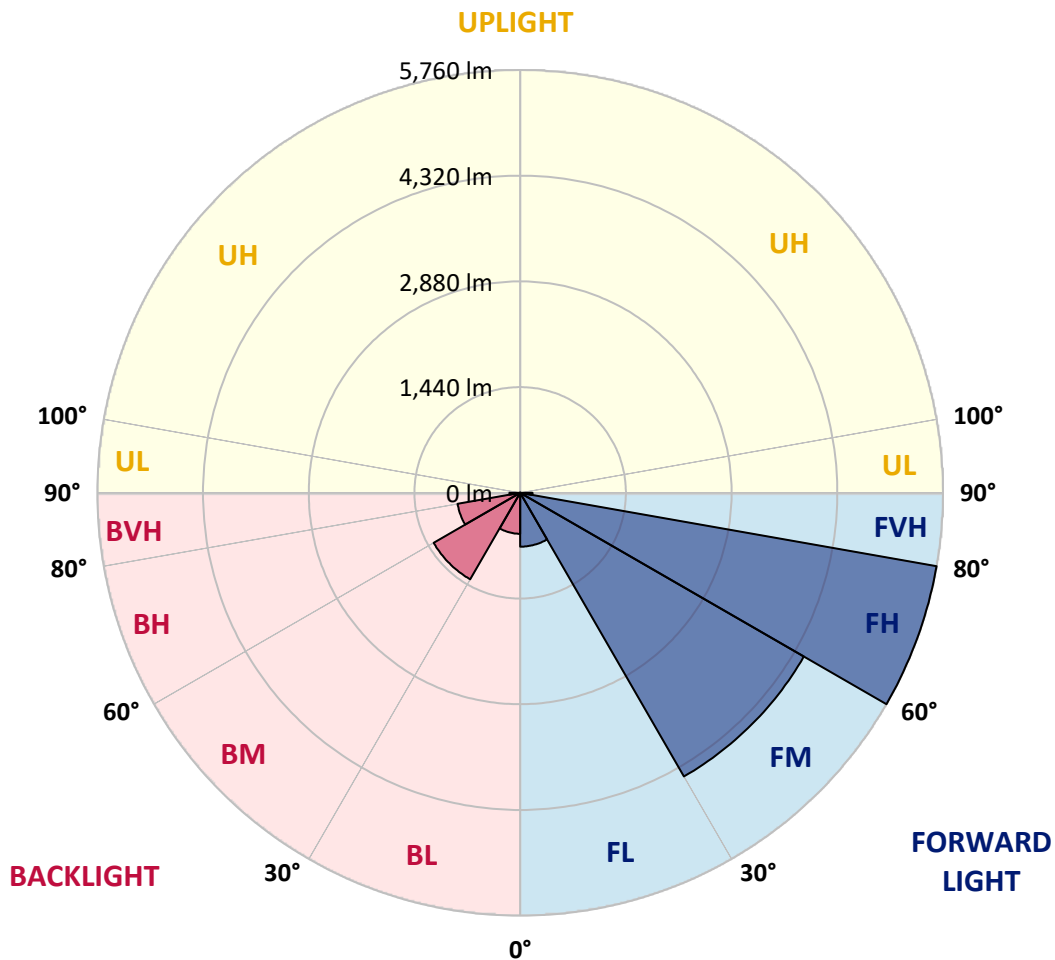
CATALOG NUMBER: GLNA-AF-03-LED-E1-T4W-7030-800

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	733.3	5.2			
FM	(30°-60°)	4461.0	31.7			
FH	(60°-80°)	5759.5	41.0			G3/7500
FVH	(80°-90°)	167.9	1.2			G2/225
BL	(0°-30°)	558.2	4.0	B2/1000		
BM	(30°-60°)	1360.9	9.7	B2/2500		
BH	(60°-80°)	866.0	6.2	B2/1000		G2/1000
BVH	(80°-90°)	146.7	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





REPORT NUMBER: P302835

CATALOG NUMBER: GLNA-AF-03-LED-E1-T4W-7030-800

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	1630.6	1630.6	1630.6	1630.6	1630.6	1630.6	1630.6	1630.6	1630.6	1630.6	1630.6
2.5°	1726.4	1723.0	1721.7	1718.9	1715.5	1698.3	1694.9	1682.6	1665.6	1647.6	1629.3
5°	1840.0	1839.3	1831.6	1817.9	1796.1	1758.5	1749.6	1719.6	1679.2	1640.2	1601.3
7.5°	1939.7	1933.5	1919.2	1891.7	1853.6	1802.3	1790.0	1748.2	1692.8	1639.5	1586.8
10°	2012.8	2009.4	1978.0	1940.3	1890.4	1833.6	1819.3	1772.8	1711.9	1644.2	1578.6
12.5°	2054.6	2047.7	2011.4	1966.5	1907.0	1851.6	1837.0	1790.0	1721.7	1644.2	1567.0
15°	2051.8	2047.1	2010.7	1961.5	1901.5	1852.9	1840.0	1792.7	1719.6	1637.4	1552.0
17.5°	1997.1	1999.2	1968.5	1919.9	1870.6	1833.6	1822.0	1778.4	1705.8	1623.8	1534.3
20°	1901.5	1911.0	1890.4	1847.5	1820.0	1794.8	1787.3	1750.3	1684.7	1604.0	1515.0
22.5°	1805.7	1814.5	1806.4	1770.0	1765.9	1751.0	1746.9	1720.3	1666.3	1591.8	1503.5
25°	1735.3	1743.5	1742.1	1710.5	1723.0	1722.4	1718.9	1705.8	1662.2	1591.8	1505.5
27.5°	1716.2	1718.9	1716.2	1687.4	1704.4	1718.3	1715.5	1713.3	1674.4	1611.5	1531.6
30°	1781.8	1777.8	1756.4	1698.3	1714.2	1733.3	1730.5	1731.9	1711.2	1663.5	1589.7
32.5°	2043.7	2025.0	1958.1	1794.8	1753.0	1763.2	1764.6	1787.3	1790.7	1743.5	1679.9
35°	2435.4	2414.9	2328.0	2053.2	1874.0	1838.6	1838.6	1872.7	1893.1	1858.4	1820.0
37.5°	2850.5	2827.7	2781.4	2411.5	2128.4	1969.2	1965.8	1989.6	2018.9	2027.3	2036.8
40°	3322.1	3298.2	3311.2	2813.4	2483.3	2195.3	2146.8	2129.7	2209.0	2261.7	2338.4
42.5°	3838.4	3827.3	3832.1	3261.2	2887.2	2533.9	2464.9	2376.5	2472.4	2565.9	2726.7
45°	4316.2	4325.7	4321.0	3740.6	3337.3	2946.7	2873.6	2702.6	2796.4	2956.9	3219.0
47.5°	4734.7	4695.0	4756.5	4264.2	3841.2	3409.1	3318.7	3089.8	3184.7	3382.9	3826.0
50°	5242.7	5237.2	5147.1	4963.1	4450.2	3873.2	3754.9	3489.7	3637.3	3912.9	4591.2
52.5°	5776.7	5677.5	5594.9	5506.5	5096.4	4349.1	4204.0	3888.2	4169.3	4515.8	5523.8
55°	5886.0	5841.7	5944.1	6092.6	5719.3	4843.5	4674.5	4388.0	4768.3	5205.2	6599.2
57.5°	6119.9	6119.2	6331.3	6595.8	6360.6	5367.8	5197.5	4991.8	5441.6	5994.7	7740.9
60°	6277.9	6322.2	6716.1	7229.6	6990.2	5973.6	5816.9	5688.4	6207.5	6877.4	8804.8
62.5°	6360.6	6420.7	6958.2	7486.6	7880.4	6982.1	6825.6	6640.3	7220.7	7845.6	9426.9
65°	6016.8	6134.8	6920.5	7708.9	8659.9	8616.8	8546.4	8221.0	8487.5	8610.6	9202.1
67.5°	5064.9	5185.9	6100.8	7501.6	9216.5	10193.5	10208.5	9652.7	9267.1	8676.2	7736.8
70°	3608.6	3703.6	4460.6	6289.5	8792.5	11223.8	11275.1	10312.3	9111.8	7694.4	5405.5
72.5°	1713.3	1771.4	2488.0	4093.5	6977.3	10283.7	10382.9	9470.1	7747.7	5696.6	2948.8
75°	629.7	647.4	840.9	1741.4	4046.9	7583.8	7700.7	6788.6	5135.9	2836.1	1123.3
77.5°	377.4	389.0	471.9	735.0	1591.8	4334.8	4507.6	3692.0	2244.6	1055.7	552.5
80°	263.9	272.0	338.3	457.3	752.1	1652.0	1805.7	1506.9	894.2	668.0	401.9
82.5°	178.5	182.6	238.0	309.0	499.8	589.9	636.5	670.1	603.1	497.1	255.0
85°	116.9	121.0	161.4	203.7	317.9	305.0	311.8	394.4	440.3	337.7	141.5
87.5°	67.0	69.7	97.2	108.8	156.0	129.2	130.6	207.8	281.8	227.8	86.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P302835

CATALOG NUMBER: GLNA-AF-03-LED-E1-T4W-7030-800

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1630.6	1630.6	1630.6	1630.6	1630.6	1630.6	1630.6	1630.6	1630.6	1630.6	1630.6
2.5°	1624.5	1615.6	1595.9	1583.4	1571.8	1569.1	1564.3	1563.6	1562.9	1562.9	1560.9
5°	1588.2	1573.2	1542.5	1525.3	1510.9	1509.6	1508.9	1512.3	1513.7	1515.0	1513.0
7.5°	1565.0	1544.6	1506.2	1481.7	1464.6	1460.3	1467.3	1483.0	1493.2	1497.3	1495.3
10°	1550.7	1525.3	1481.0	1454.2	1439.9	1437.8	1446.7	1465.3	1486.4	1494.6	1493.9
12.5°	1534.3	1505.5	1458.3	1430.3	1422.2	1426.2	1437.8	1454.9	1476.9	1489.8	1490.5
15°	1517.8	1484.4	1435.8	1411.3	1407.9	1413.3	1424.2	1437.1	1454.2	1467.3	1468.7
17.5°	1498.0	1463.0	1414.7	1389.2	1386.5	1389.2	1389.9	1396.7	1407.9	1420.1	1423.5
20°	1476.9	1441.2	1390.6	1365.4	1353.1	1342.2	1329.7	1331.1	1334.5	1347.0	1349.7
22.5°	1461.7	1426.2	1372.2	1337.2	1304.5	1271.6	1247.1	1243.7	1245.0	1255.3	1258.7
25°	1463.0	1425.6	1367.4	1307.3	1235.5	1182.8	1149.9	1144.4	1143.8	1151.3	1156.3
27.5°	1489.8	1452.1	1385.1	1276.4	1160.3	1082.2	1047.5	1043.4	1038.0	1040.0	1045.4
30°	1549.3	1514.4	1428.3	1245.0	1078.8	983.9	947.6	943.5	936.0	932.6	936.7
32.5°	1646.3	1617.7	1491.2	1214.8	997.5	899.7	862.9	854.0	849.3	845.2	848.6
35°	1807.7	1795.5	1575.2	1182.1	925.8	834.7	801.3	787.7	780.9	788.4	793.8
37.5°	2060.7	2067.5	1685.3	1130.8	870.4	791.8	763.6	748.0	737.8	743.9	750.0
40°	2419.0	2423.8	1807.0	1058.4	822.5	766.4	736.4	722.1	707.6	696.7	696.0
42.5°	2889.3	2840.9	1926.7	979.8	767.1	750.7	717.3	699.4	677.6	647.4	641.3
45°	3447.2	3277.1	2017.5	889.4	704.8	731.6	696.0	671.5	637.2	604.5	601.1
47.5°	4090.0	3745.3	2062.1	795.9	646.7	703.5	670.1	631.0	587.9	571.5	569.5
50°	4874.8	4301.2	2083.2	704.8	596.3	666.7	632.4	586.5	550.4	547.0	545.0
52.5°	5768.6	4970.0	2090.2	630.4	554.5	618.8	601.7	557.2	528.4	531.4	531.4
55°	6703.9	5660.5	1997.1	576.3	516.1	569.5	581.1	545.7	521.6	532.7	536.8
57.5°	7562.4	6272.4	1704.4	534.8	480.0	532.0	573.6	556.6	540.2	584.5	587.2
60°	8221.6	6633.9	1273.0	497.1	453.2	518.9	593.6	598.3	602.4	708.2	722.8
62.5°	8359.7	6513.8	875.1	467.8	441.0	530.0	629.7	630.4	625.6	699.4	708.2
65°	7725.9	5752.7	636.5	451.2	430.8	549.7	660.6	646.0	614.7	670.8	654.2
67.5°	6135.5	4334.1	530.0	438.9	415.8	548.4	693.3	660.6	608.6	657.2	630.4
70°	3982.6	2620.7	471.9	428.7	397.8	522.3	712.3	659.2	590.6	611.3	579.7
72.5°	1943.1	1171.9	432.8	413.7	379.4	486.2	711.6	646.7	572.2	570.9	553.8
75°	760.2	536.8	397.2	391.0	348.1	445.1	692.6	629.0	550.4	528.4	522.3
77.5°	445.1	382.8	352.2	357.6	310.4	404.0	664.6	598.3	520.2	494.3	487.5
80°	324.0	286.6	300.2	309.0	265.2	363.1	626.9	560.6	486.8	499.8	490.3
82.5°	207.8	184.6	243.4	252.3	220.9	321.3	585.8	520.9	439.6	399.2	389.7
85°	106.0	116.9	181.2	192.1	170.3	263.9	536.1	468.5	386.3	332.2	337.7
87.5°	59.5	79.9	115.6	129.2	120.3	203.0	434.8	386.3	315.2	256.4	225.7
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)