

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: STREETWORKS

Report Number: P319016

Luminaire Tested: **GAN-SA2D-730-U-T4W**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P319016  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-18)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-SA2D-730-U-T4W  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 14356 lumens  
Efficiency: N/A  
Efficacy: 111.3 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G3

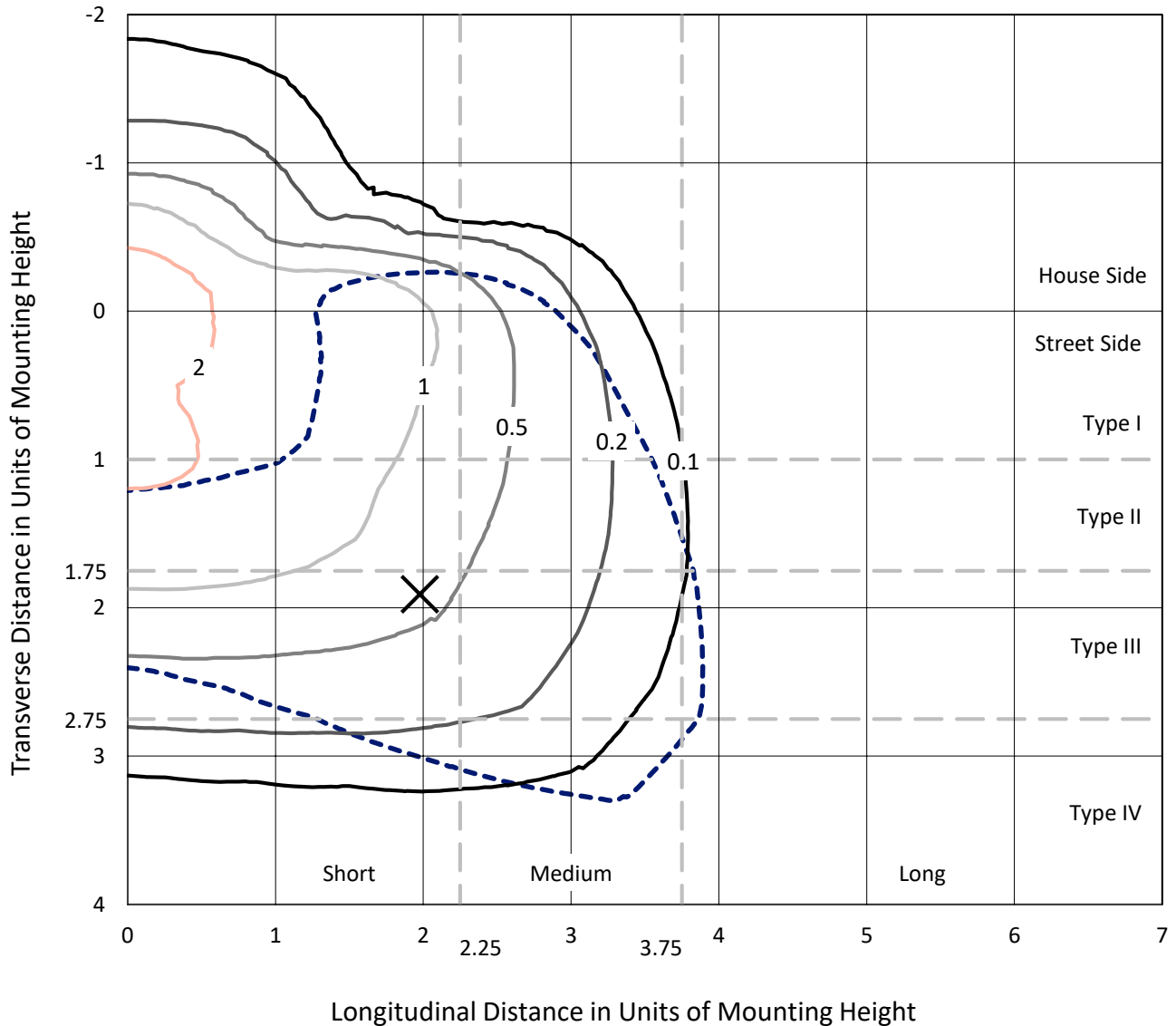
Input Watts (W): 129  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

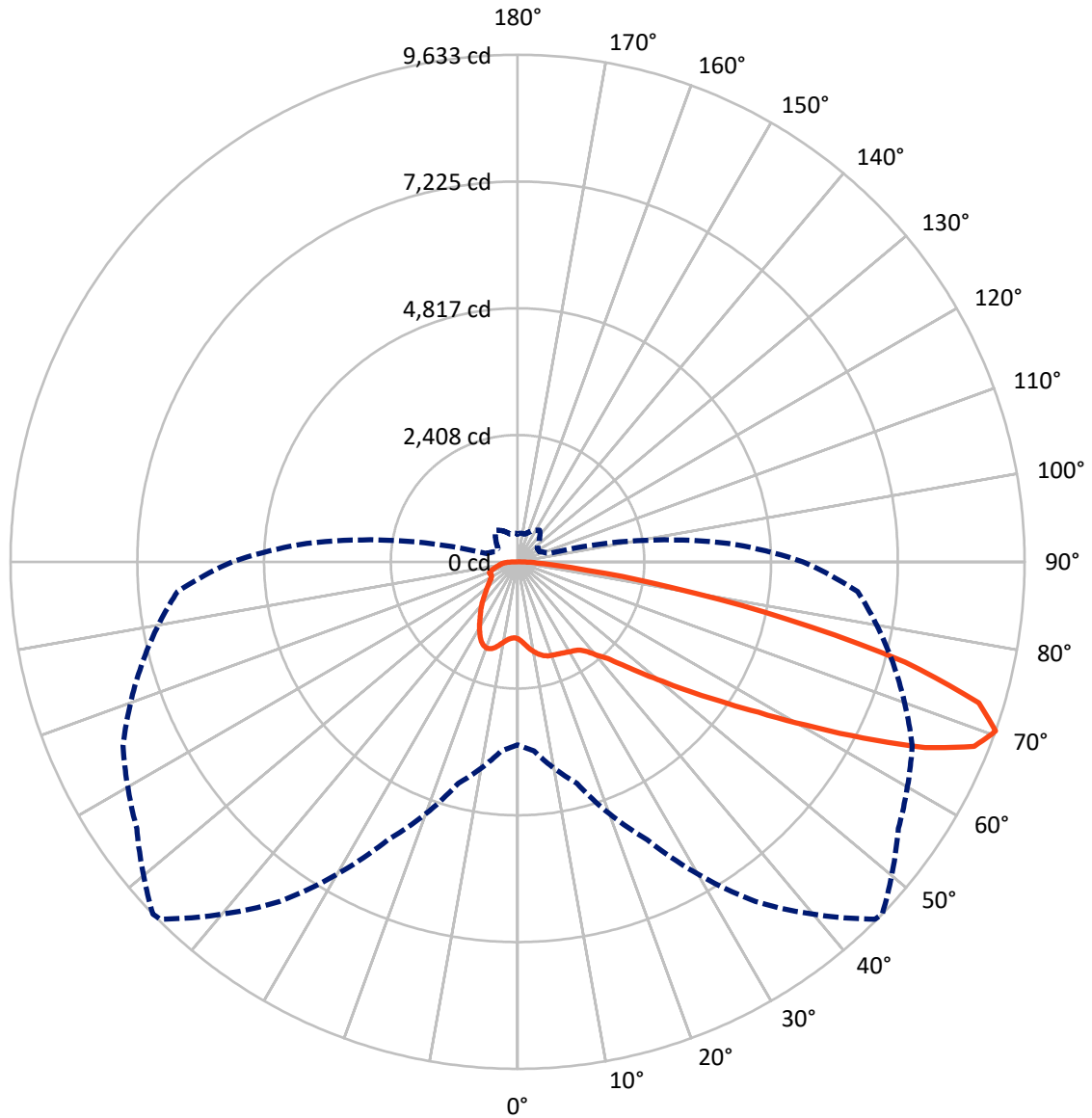
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.9 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 46-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3290.3	0.0	3290.3
	% Fixture	22.9	0.0	22.9
<b>Street Side</b>	Lumens	11065.7	0.0	11065.7
	% Fixture	77.1	0.0	77.1
<b>Total</b>	Lumens	14356.0	0.0	14356.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	149.1	1.0
10°-20°	496.8	3.5
20°-30°	828.3	5.8
30°-40°	1175.4	8.2
40°-50°	1728.9	12.0
50°-60°	2927.9	20.4
60°-70°	4156.2	29.0
70°-80°	2524.9	17.6
80°-90°	368.5	2.6
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°	14356.0	100.0
0°-180°	14356.0	100.0

**Coefficient of Utilization**



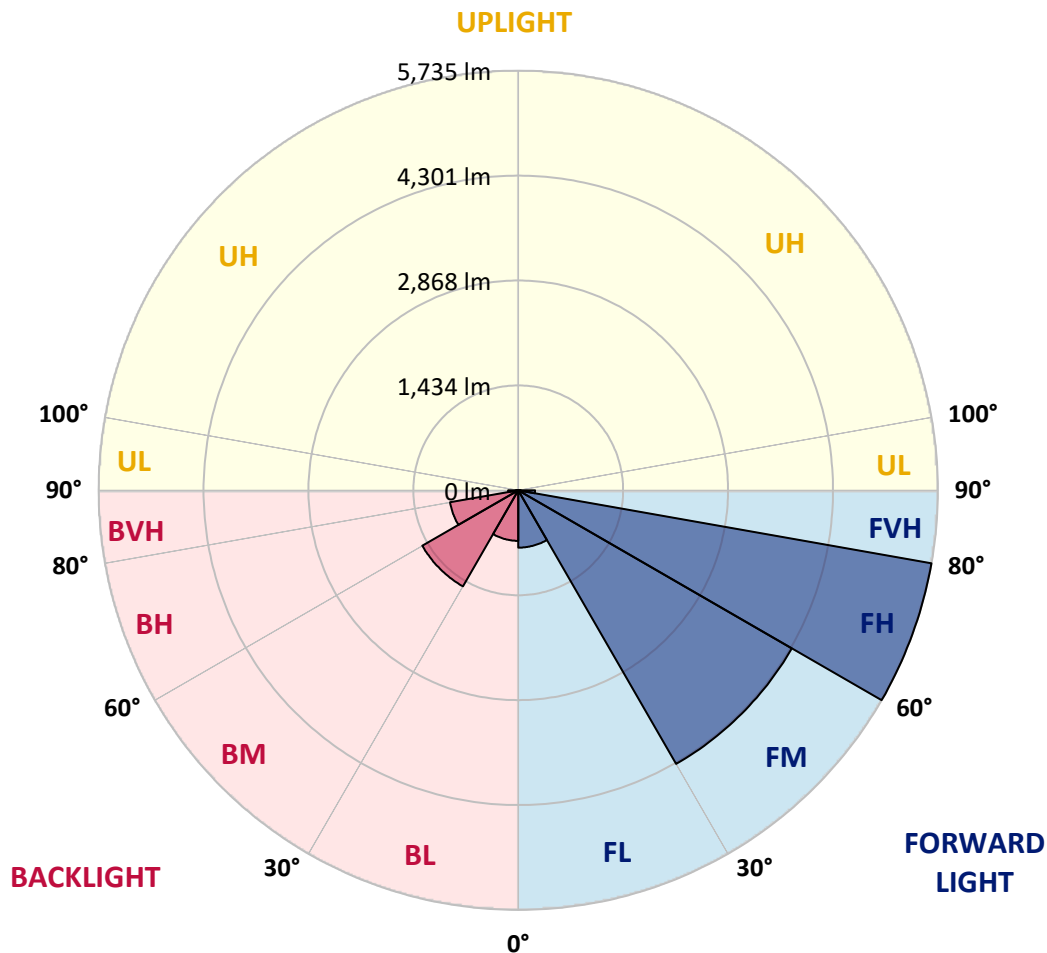
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	783.3	5.5			
FM (30°-60°)	4317.6	30.1			
FH (60°-80°)	5735.1	39.9			G3/7500
FVH (80°-90°)	229.5	1.6			G3/500
BL (0°-30°)	690.8	4.8	B2/1000		
BM (30°-60°)	1514.6	10.6	B2/2500		
BH (60°-80°)	945.9	6.6	B2/1000		G2/1000
BVH (80°-90°)	138.9	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°	46°	55°	65°	75°	85°
0°	1462.6	1462.6	1462.6	1462.6	1462.6	1462.6	1462.6	1462.6	1462.6	1462.6	1462.6
2.5°	1535.8	1536.8	1538.7	1533.8	1520.1	1516.1	1514.7	1500.4	1491.1	1477.3	1465.5
5°	1658.6	1659.6	1656.7	1642.9	1612.4	1589.8	1587.9	1555.5	1526.0	1494.5	1470.9
7.5°	1786.9	1788.3	1779.0	1753.0	1710.2	1670.9	1668.4	1624.2	1579.5	1531.9	1496.5
10°	1900.3	1894.4	1879.2	1842.9	1792.3	1744.1	1742.1	1696.0	1644.4	1586.9	1539.7
12.5°	1976.0	1971.1	1951.4	1907.2	1851.7	1807.5	1803.6	1760.8	1710.7	1647.8	1591.3
15°	2017.8	2021.2	1994.7	1944.6	1890.5	1853.2	1849.7	1819.3	1774.6	1711.2	1646.3
17.5°	2023.2	2026.1	2000.6	1950.9	1906.7	1881.2	1879.7	1859.6	1827.1	1766.2	1698.4
20°	1991.7	1993.7	1972.6	1931.8	1902.8	1894.9	1894.4	1885.6	1861.5	1807.5	1741.7
22.5°	1946.0	1947.5	1932.3	1902.8	1893.0	1905.3	1908.7	1905.3	1888.1	1837.5	1775.6
25°	1934.7	1933.8	1918.0	1888.1	1896.4	1922.5	1926.9	1928.3	1916.6	1872.3	1818.8
27.5°	1989.3	1985.8	1955.9	1907.7	1913.1	1944.6	1950.5	1964.7	1957.3	1918.5	1867.9
30°	2147.0	2141.1	2079.7	1982.4	1955.9	1972.1	1979.4	2002.0	2003.5	1971.1	1933.3
32.5°	2413.3	2405.9	2295.8	2121.9	2028.1	2000.1	2007.0	2040.9	2059.0	2034.0	1993.2
35°	2749.8	2741.4	2597.0	2359.2	2148.9	2053.6	2058.5	2085.6	2121.9	2086.5	2032.5
37.5°	3100.6	3080.4	2941.4	2638.3	2341.0	2168.1	2168.1	2171.5	2188.7	2115.0	2078.7
40°	3449.4	3429.3	3303.5	2966.5	2589.6	2348.4	2337.1	2261.0	2247.2	2183.8	2171.5
42.5°	3773.7	3767.8	3693.6	3337.4	2881.5	2525.8	2510.0	2380.8	2383.8	2344.5	2345.0
45°	4118.6	4118.6	4058.1	3711.8	3221.4	2810.7	2795.0	2604.9	2634.3	2616.2	2659.9
47.5°	4400.1	4408.9	4400.6	4101.9	3616.9	3172.8	3144.3	2915.4	2997.9	3060.3	3187.5
50°	4687.5	4701.2	4702.7	4529.8	4095.0	3603.2	3570.8	3327.6	3511.8	3690.6	3940.7
52.5°	5104.6	5135.5	5012.2	4956.7	4680.6	4114.1	4082.2	3857.7	4165.2	4416.3	4847.2
55°	5491.2	5464.2	5376.3	5410.7	5307.5	4695.8	4671.8	4474.7	4893.3	5219.6	5779.1
57.5°	5700.5	5698.6	5787.0	5934.4	5983.5	5413.1	5393.0	5201.4	5714.3	5959.4	6654.1
60°	5946.2	5949.6	6168.7	6503.3	6705.7	6306.3	6297.5	6152.0	6511.7	6650.2	7340.5
62.5°	5980.6	6042.5	6419.8	6995.6	7381.8	7349.8	7369.5	7008.4	7225.0	7201.5	7852.9
65°	5585.1	5666.6	6349.5	7144.5	8053.9	8491.1	8509.3	7869.6	7787.6	7672.6	8036.2
67.5°	4774.4	4895.3	5637.2	6820.7	8275.4	9334.7	9360.2	8537.3	8254.3	7832.3	7595.0
70°	3474.5	3608.6	4355.4	5825.3	7880.4	9604.4	9633.4	8832.6	8272.0	7377.8	6483.7
72.5°	2098.8	2204.0	2819.6	4288.5	6651.2	9113.1	9164.7	8458.2	7552.2	6249.3	4787.7
75°	921.7	990.5	1363.4	2471.2	4761.7	7540.0	7604.3	7239.8	6136.3	4541.6	2829.9
77.5°	392.5	412.2	559.1	1073.5	2691.8	5152.2	5240.7	5289.8	4163.3	2471.2	1195.8
80°	244.7	252.5	316.4	485.9	1259.7	2893.7	2989.1	3112.4	2067.4	908.4	417.6
82.5°	148.9	157.7	210.3	293.8	655.9	1311.8	1357.5	1444.4	802.3	392.5	216.2
85°	89.4	95.8	128.7	185.7	373.4	515.9	515.4	569.9	377.8	252.5	114.0
87.5°	42.7	47.7	68.8	96.3	188.2	193.6	181.3	205.4	229.4	165.6	57.5
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°	1462.6	1462.6	1462.6	1462.6	1462.6	1462.6	1462.6	1462.6	1462.6	1462.6	1462.6
2.5°	1461.6	1459.6	1453.3	1448.3	1447.4	1444.4	1442.0	1443.4	1445.4	1445.9	1445.9
5°	1461.1	1455.7	1447.4	1443.9	1448.3	1454.2	1461.6	1471.4	1477.3	1481.8	1484.7
7.5°	1484.7	1474.4	1465.1	1463.1	1471.9	1487.7	1504.4	1525.0	1539.2	1549.1	1551.0
10°	1524.0	1511.2	1501.9	1503.9	1519.6	1542.2	1565.8	1592.3	1613.9	1627.2	1628.2
12.5°	1569.2	1556.9	1548.1	1556.4	1582.5	1610.0	1634.5	1657.6	1677.3	1690.6	1690.6
15°	1621.3	1612.4	1602.1	1621.3	1656.7	1681.2	1691.5	1702.8	1713.6	1723.5	1721.5
17.5°	1671.4	1663.0	1657.6	1680.2	1717.1	1728.4	1721.5	1713.2	1713.2	1718.6	1719.5
20°	1714.6	1707.3	1710.7	1732.8	1752.0	1740.2	1714.6	1688.1	1677.3	1680.2	1683.2
22.5°	1752.5	1749.0	1759.3	1769.7	1755.9	1714.6	1667.5	1631.6	1618.3	1617.4	1618.3
25°	1796.7	1796.2	1809.0	1790.3	1729.4	1653.2	1589.8	1555.0	1547.6	1553.5	1563.3
27.5°	1851.7	1857.1	1863.5	1795.2	1675.3	1560.4	1496.0	1471.9	1479.3	1493.5	1502.9
30°	1922.0	1936.7	1922.9	1782.9	1597.7	1454.2	1392.8	1386.0	1406.1	1426.2	1436.1
32.5°	1990.2	2013.3	1979.9	1751.0	1497.5	1341.7	1294.1	1292.1	1316.7	1336.3	1350.1
35°	2045.3	2091.0	2022.7	1687.6	1381.5	1238.1	1203.2	1189.9	1198.8	1221.9	1237.6
37.5°	2117.0	2193.2	2052.2	1590.8	1255.8	1152.6	1111.8	1081.3	1073.5	1082.8	1090.7
40°	2248.2	2348.9	2065.9	1455.7	1132.9	1067.1	1025.8	981.1	950.2	927.6	928.1
42.5°	2462.4	2551.8	2057.1	1291.6	1019.4	983.6	936.9	885.3	835.2	784.1	780.2
45°	2810.2	2853.5	2030.5	1117.7	919.7	896.1	852.4	800.8	734.0	676.0	670.6
47.5°	3366.9	3271.1	1989.3	965.9	831.8	821.9	781.7	722.2	651.5	604.8	600.9
50°	4125.9	3873.9	1969.1	845.0	754.1	757.1	724.2	661.3	594.5	560.1	556.1
52.5°	5033.8	4576.0	2007.9	751.7	691.7	702.1	677.5	618.5	562.5	535.5	531.6
55°	5975.7	5303.1	2049.7	683.9	632.8	652.9	644.6	595.9	545.3	520.3	516.8
57.5°	6781.9	5846.0	1966.2	628.9	580.2	611.7	619.0	581.7	536.5	513.9	510.0
60°	7289.4	6064.6	1747.1	577.3	538.5	578.7	604.3	577.8	539.9	538.0	535.0
62.5°	7530.1	6045.4	1418.4	536.5	512.4	564.5	615.1	599.9	579.2	596.9	598.4
65°	7422.0	5756.5	1056.3	509.5	493.8	569.9	647.5	641.6	590.5	608.2	610.7
67.5°	6710.6	5067.3	782.1	485.9	473.1	585.1	706.5	655.4	568.4	581.2	573.3
70°	5423.9	4017.3	603.3	459.4	452.0	583.2	733.0	647.0	544.4	547.3	526.2
72.5°	3740.3	2739.5	490.8	434.8	421.5	531.6	714.3	626.4	524.2	501.6	473.6
75°	2034.0	1470.5	417.1	409.3	368.0	466.7	680.0	611.7	506.0	476.1	460.3
77.5°	800.3	610.2	362.1	374.4	321.8	412.2	641.6	583.7	481.0	441.7	433.8
80°	326.7	311.5	300.2	323.8	276.6	360.6	595.5	550.7	451.0	409.7	394.0
82.5°	185.2	193.6	233.4	255.5	224.5	332.1	573.3	524.2	415.1	367.0	348.3
85°	94.8	113.5	162.6	183.3	165.1	282.5	528.1	458.9	333.1	281.0	282.5
87.5°	45.7	63.4	102.7	115.0	107.1	204.4	394.5	332.6	259.4	205.4	199.0
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)