

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: P319027

Luminaire Tested: **GAN-SA3A-740-U-T4W**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P319027  
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-SA3A-740-U-T4W  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 70 CRI, 4000K, 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: 14128 lumens  
Efficiency: N/A  
Efficacy: 147.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G3

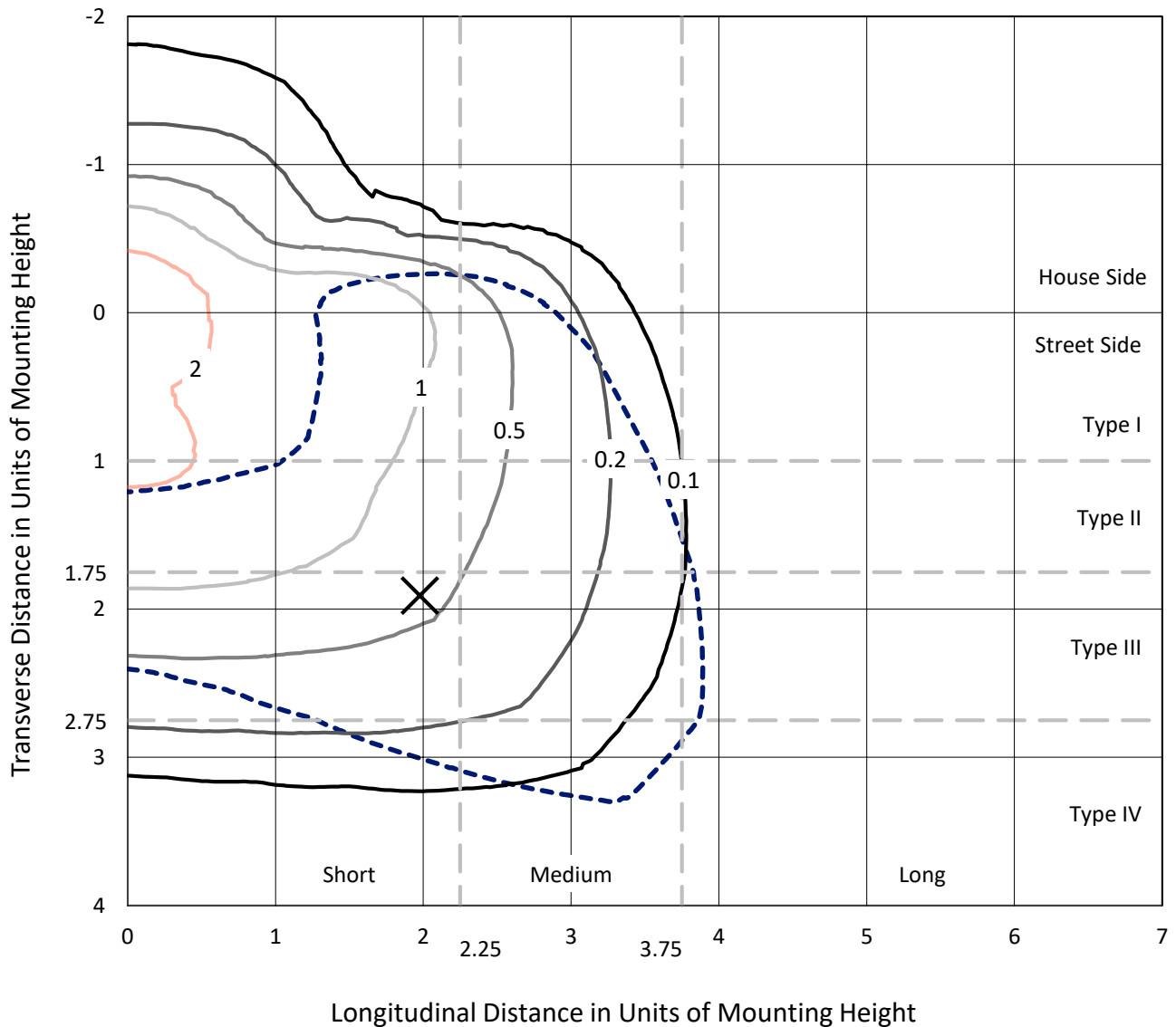
Input Watts (W): 96  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

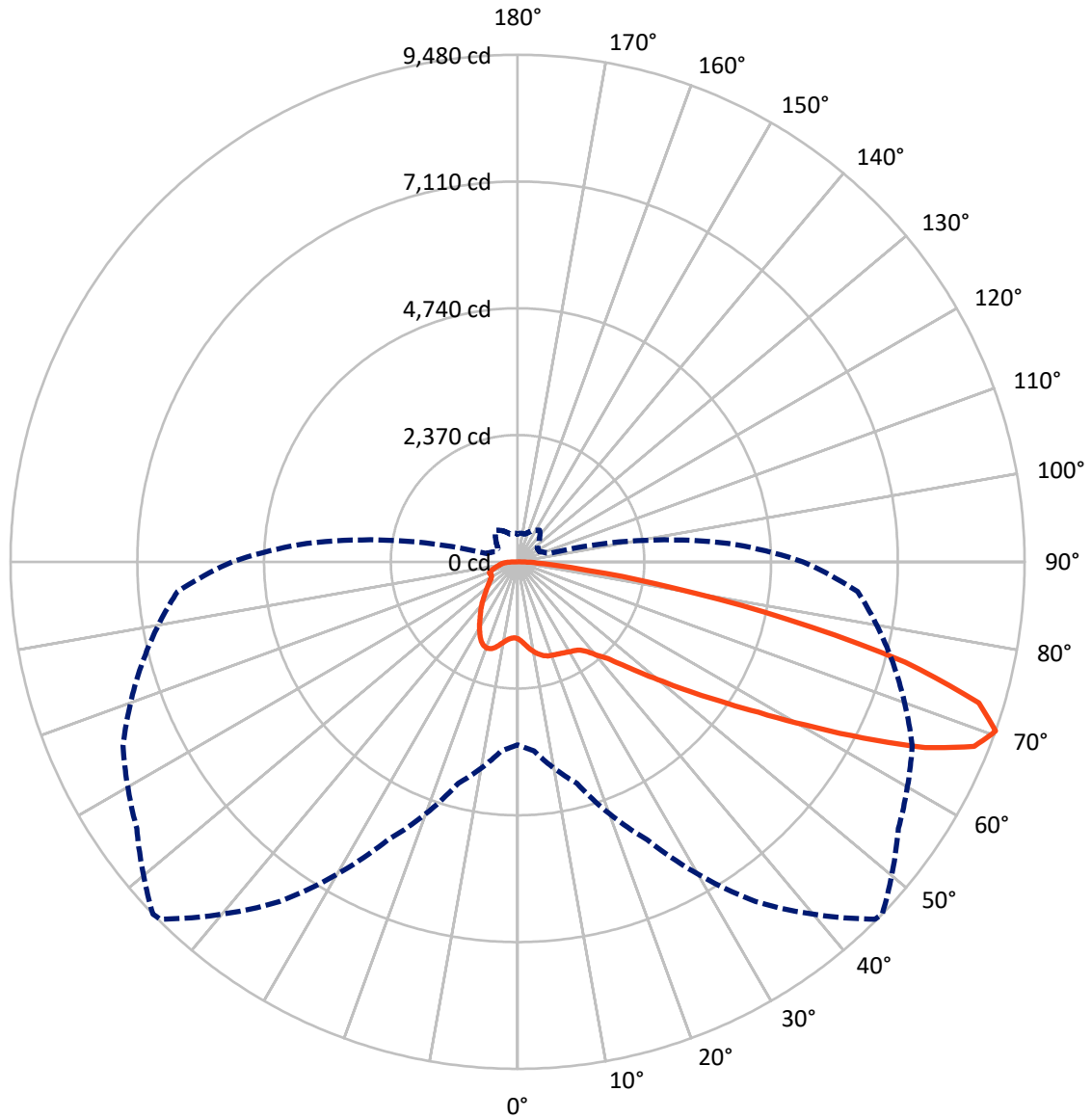
✕ Max cd  
 - - - 1/2 Max cd



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	3238.1	0.0	3238.1
	% Fixture	22.9	0.0	22.9
<b>Street Side</b>	Lumens	10889.9	0.0	10889.9
	% Fixture	77.1	0.0	77.1
<b>Total</b>	Lumens	14128.0	0.0	14128.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	146.7	1.0
10°-20°	488.9	3.5
20°-30°	815.1	5.8
30°-40°	1156.7	8.2
40°-50°	1701.5	12.0
50°-60°	2881.5	20.4
60°-70°	4090.2	29.0
70°-80°	2484.8	17.6
80°-90°	362.6	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°	14128.0	100.0
0°-180°	14128.0	100.0

**Coefficient of Utilization**

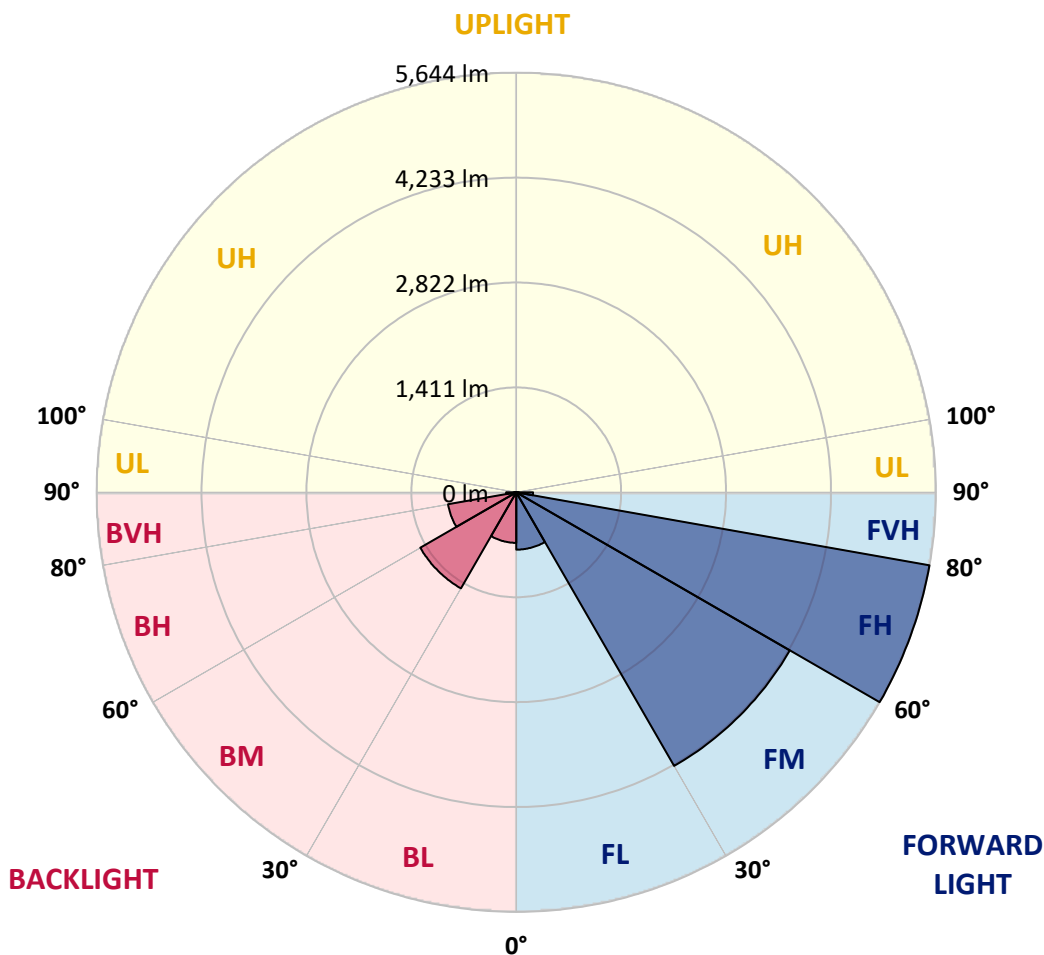


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	770.9	5.5			
FM (30°-60°)	4249.1	30.1			
FH (60°-80°)	5644.1	39.9			G3/7500
FVH (80°-90°)	225.9	1.6			G3/500
BL (0°-30°)	679.8	4.8	B2/1000		
BM (30°-60°)	1490.6	10.6	B2/2500		
BH (60°-80°)	930.9	6.6	B2/1000		G2/1000
BVH (80°-90°)	136.7	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





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	1439.4	1439.4	1439.4	1439.4	1439.4	1439.4	1439.4	1439.4	1439.4	1439.4	1439.4
2.5°	1511.4	1512.4	1514.3	1509.5	1495.9	1492.1	1490.6	1476.6	1467.4	1453.9	1442.3
5°	1632.3	1633.2	1630.3	1616.8	1586.8	1564.6	1562.7	1530.7	1501.7	1470.8	1447.6
7.5°	1758.5	1759.9	1750.7	1725.1	1683.0	1644.4	1642.0	1598.4	1554.4	1507.5	1472.7
10°	1870.2	1864.4	1849.4	1813.6	1763.8	1716.4	1714.5	1669.0	1618.3	1561.7	1515.3
12.5°	1944.6	1939.8	1920.4	1876.9	1822.3	1778.8	1774.9	1732.8	1683.5	1621.6	1566.0
15°	1985.7	1989.1	1963.0	1913.7	1860.5	1823.7	1820.4	1790.4	1746.4	1684.0	1620.2
17.5°	1991.0	1993.9	1968.8	1920.0	1876.4	1851.3	1849.9	1830.0	1798.1	1738.2	1671.4
20°	1960.1	1962.0	1941.2	1901.1	1872.6	1864.8	1864.4	1855.7	1832.0	1778.8	1714.0
22.5°	1915.1	1916.6	1901.6	1872.6	1862.9	1875.0	1878.4	1875.0	1858.1	1808.3	1747.4
25°	1904.0	1903.0	1887.6	1858.1	1866.3	1891.9	1896.3	1897.7	1886.1	1842.6	1789.9
27.5°	1957.7	1954.3	1924.8	1877.4	1882.7	1913.7	1919.5	1933.5	1926.2	1888.1	1838.3
30°	2112.9	2107.1	2046.6	1950.9	1924.8	1940.8	1948.0	1970.2	1971.7	1939.8	1902.6
32.5°	2374.9	2367.7	2259.4	2088.2	1995.9	1968.3	1975.1	2008.4	2026.3	2001.7	1961.5
35°	2706.1	2697.9	2555.8	2321.7	2114.8	2021.0	2025.8	2052.4	2088.2	2053.4	2000.2
37.5°	3051.3	3031.5	2894.7	2596.4	2303.9	2133.7	2133.7	2137.1	2154.0	2081.4	2045.7
40°	3394.6	3374.8	3251.0	2919.3	2548.5	2311.1	2300.0	2225.0	2211.5	2149.1	2137.1
42.5°	3713.7	3707.9	3634.9	3284.4	2835.7	2485.7	2470.2	2343.0	2345.9	2307.2	2307.7
45°	4053.1	4053.1	3993.7	3652.8	3170.3	2766.1	2750.6	2563.5	2592.5	2574.6	2617.6
47.5°	4330.2	4338.9	4330.7	4036.7	3559.5	3122.4	3094.4	2869.1	2950.3	3011.7	3136.9
50°	4613.0	4626.6	4628.0	4457.8	4029.9	3546.0	3514.0	3274.7	3456.0	3632.0	3878.1
52.5°	5023.5	5054.0	4932.6	4878.0	4606.3	4048.8	4017.4	3796.4	4099.1	4346.1	4770.2
55°	5404.0	5377.4	5290.9	5324.7	5223.2	4621.3	4597.6	4403.7	4815.6	5136.7	5687.4
57.5°	5610.0	5608.1	5695.1	5840.1	5888.5	5327.2	5307.3	5118.8	5623.5	5864.8	6548.5
60°	5851.7	5855.1	6070.8	6400.0	6599.2	6206.2	6197.4	6054.3	6408.3	6544.6	7223.9
62.5°	5885.6	5946.5	6317.8	6884.5	7264.5	7233.1	7252.4	6897.1	7110.3	7087.1	7728.2
65°	5496.4	5576.6	6248.7	7031.0	7925.9	8356.3	8374.1	7744.6	7663.9	7550.8	7908.5
67.5°	4698.6	4817.6	5547.6	6712.4	8144.0	9186.4	9211.6	8401.7	8123.2	7707.9	7474.4
70°	3419.3	3551.3	4286.2	5732.8	7755.3	9451.9	9480.4	8692.3	8140.6	7260.7	6380.7
72.5°	2065.5	2169.0	2774.8	4220.4	6545.6	8968.4	9019.1	8323.9	7432.3	6150.1	4711.7
75°	907.0	974.7	1341.7	2432.0	4686.0	7420.2	7483.5	7124.8	6038.9	4469.4	2784.9
77.5°	386.3	405.7	550.2	1056.4	2649.1	5070.4	5157.4	5205.8	4097.1	2432.0	1176.8
80°	240.8	248.5	311.4	478.2	1239.7	2847.8	2941.6	3062.9	2034.5	894.0	411.0
82.5°	146.5	155.2	206.9	289.1	645.5	1290.9	1335.9	1421.5	789.5	386.3	212.7
85°	88.0	94.3	126.7	182.8	367.5	507.7	507.2	560.9	371.8	248.5	112.2
87.5°	42.1	46.9	67.7	94.8	185.2	190.5	178.4	202.1	225.8	162.9	56.6
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°	1439.4	1439.4	1439.4	1439.4	1439.4	1439.4	1439.4	1439.4	1439.4	1439.4	1439.4
2.5°	1438.4	1436.5	1430.2	1425.3	1424.4	1421.5	1419.1	1420.5	1422.4	1422.9	1422.9
5°	1437.9	1432.6	1424.4	1421.0	1425.3	1431.1	1438.4	1448.1	1453.9	1458.2	1461.1
7.5°	1461.1	1451.0	1441.8	1439.9	1448.6	1464.0	1480.5	1500.8	1514.8	1524.5	1526.4
10°	1499.8	1487.2	1478.0	1480.0	1495.5	1517.7	1540.9	1567.0	1588.3	1601.3	1602.3
12.5°	1544.3	1532.2	1523.5	1531.7	1557.3	1584.4	1608.6	1631.3	1650.7	1663.7	1663.7
15°	1595.5	1586.8	1576.7	1595.5	1630.3	1654.5	1664.7	1675.8	1686.4	1696.1	1694.2
17.5°	1644.9	1636.6	1631.3	1653.6	1689.8	1700.9	1694.2	1685.9	1685.9	1691.3	1692.2
20°	1687.4	1680.1	1683.5	1705.3	1724.1	1712.5	1687.4	1661.3	1650.7	1653.6	1656.5
22.5°	1724.6	1721.2	1731.4	1741.6	1728.0	1687.4	1641.0	1605.7	1592.6	1591.7	1592.6
25°	1768.1	1767.7	1780.2	1761.9	1701.9	1627.0	1564.6	1530.3	1523.0	1528.8	1538.5
27.5°	1822.3	1827.6	1833.9	1766.7	1648.7	1535.6	1472.2	1448.6	1455.8	1469.8	1479.0
30°	1891.4	1905.9	1892.4	1754.6	1572.3	1431.1	1370.7	1363.9	1383.8	1403.6	1413.3
32.5°	1958.6	1981.4	1948.5	1723.2	1473.7	1320.4	1273.5	1271.6	1295.8	1315.1	1328.6
35°	2012.8	2057.8	1990.6	1660.8	1359.6	1218.4	1184.1	1171.0	1179.7	1202.5	1217.9
37.5°	2083.4	2158.3	2019.6	1565.6	1235.8	1134.3	1094.2	1064.2	1056.4	1065.6	1073.4
40°	2212.5	2311.6	2033.1	1432.6	1114.9	1050.2	1009.5	965.5	935.1	912.8	913.3
42.5°	2423.3	2511.3	2024.4	1271.1	1003.3	968.0	922.0	871.3	821.9	771.7	767.8
45°	2765.6	2808.1	1998.3	1100.0	905.1	881.9	838.9	788.1	722.3	665.3	660.0
47.5°	3313.4	3219.1	1957.7	950.6	818.6	808.9	769.2	710.7	641.1	595.2	591.3
50°	4060.4	3812.4	1937.9	831.6	742.2	745.1	712.7	650.8	585.0	551.2	547.3
52.5°	4953.9	4503.3	1976.0	739.7	680.8	690.9	666.7	608.7	553.6	527.0	523.1
55°	5880.8	5218.9	2017.1	673.0	622.7	642.6	634.3	586.5	536.7	512.0	508.6
57.5°	6674.2	5753.1	1934.9	618.9	571.0	602.0	609.2	572.5	528.0	505.7	501.9
60°	7173.6	5968.3	1719.3	568.1	529.9	569.6	594.7	568.6	531.4	529.4	526.5
62.5°	7410.5	5949.4	1395.9	528.0	504.3	555.5	605.3	590.3	570.0	587.4	588.9
65°	7304.2	5665.1	1039.5	501.4	485.9	560.9	637.2	631.4	581.2	598.6	601.0
67.5°	6604.1	4986.8	769.7	478.2	465.6	575.8	695.3	645.0	559.4	572.0	564.2
70°	5337.8	3953.5	593.7	452.1	444.8	573.9	721.4	636.8	535.7	538.6	517.8
72.5°	3680.9	2696.0	483.0	427.9	414.8	523.1	703.0	616.5	515.9	493.6	466.1
75°	2001.7	1447.1	410.5	402.8	362.1	459.3	669.2	602.0	498.0	468.5	453.0
77.5°	787.6	600.5	356.3	368.4	316.7	405.7	631.4	574.4	473.3	434.7	426.9
80°	321.5	306.5	295.4	318.6	272.2	354.9	586.0	542.0	443.8	403.2	387.8
82.5°	182.3	190.5	229.7	251.4	221.0	326.8	564.2	515.9	408.6	361.2	342.8
85°	93.3	111.7	160.0	180.3	162.5	278.0	519.8	451.6	327.8	276.6	278.0
87.5°	45.0	62.4	101.1	113.1	105.4	201.1	388.2	327.3	255.3	202.1	195.8
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)