

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: P319685

Luminaire Tested: **GAN-SA1C-740-U-SL3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319685
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-22)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA1C-740-U-SL3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 4000K, 1050mA LIGHTSQUARE WITH 16 LEDS AND TYPE III SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7406 lumens
Efficiency: N/A
Efficacy: 125.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

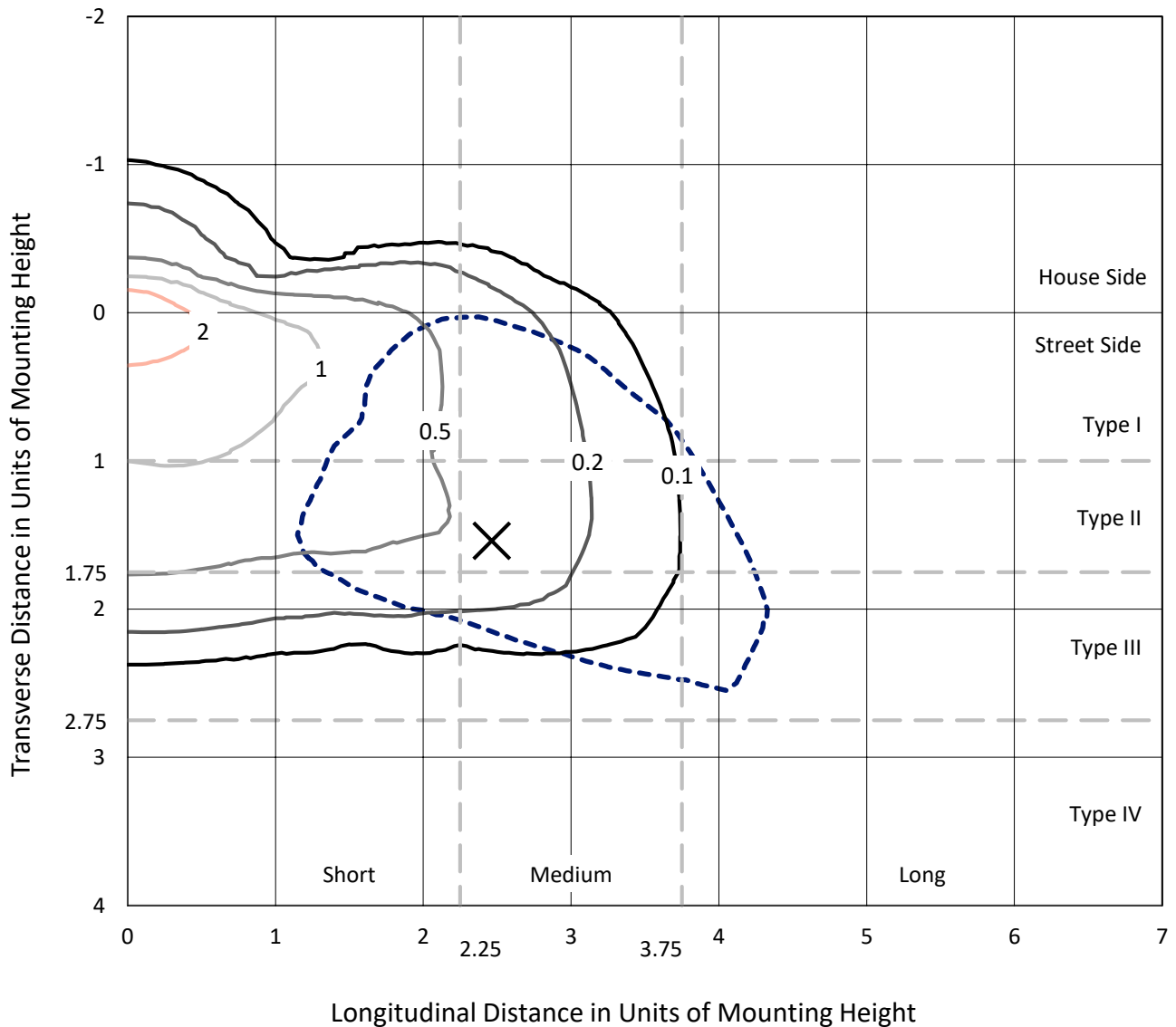
Input Watts (W): 59
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

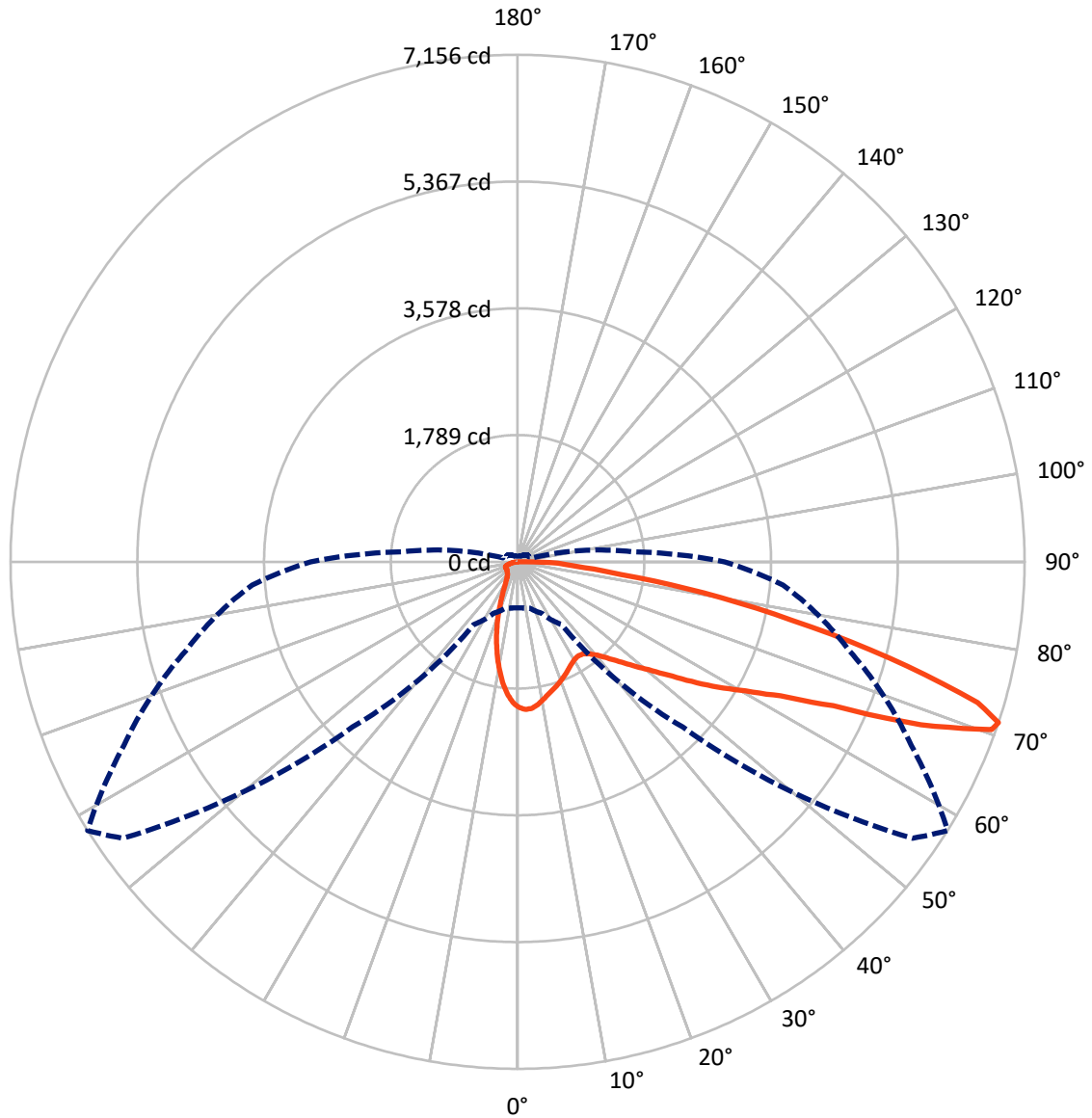
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.3 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1107.2	0.0	1107.2
	% Fixture	15.0	0.0	15.0
Street Side	Lumens	6298.8	0.0	6298.8
	% Fixture	85.0	0.0	85.0
Total	Lumens	7406.0	0.0	7406.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	177.0	2.4
10°-20°	393.6	5.3
20°-30°	500.3	6.8
30°-40°	637.2	8.6
40°-50°	903.6	12.2
50°-60°	1398.4	18.9
60°-70°	1903.8	25.7
70°-80°	1270.0	17.1
80°-90°	222.0	3.0
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°	7406.0	100.0
0°-180°	7406.0	100.0

Coefficient of Utilization

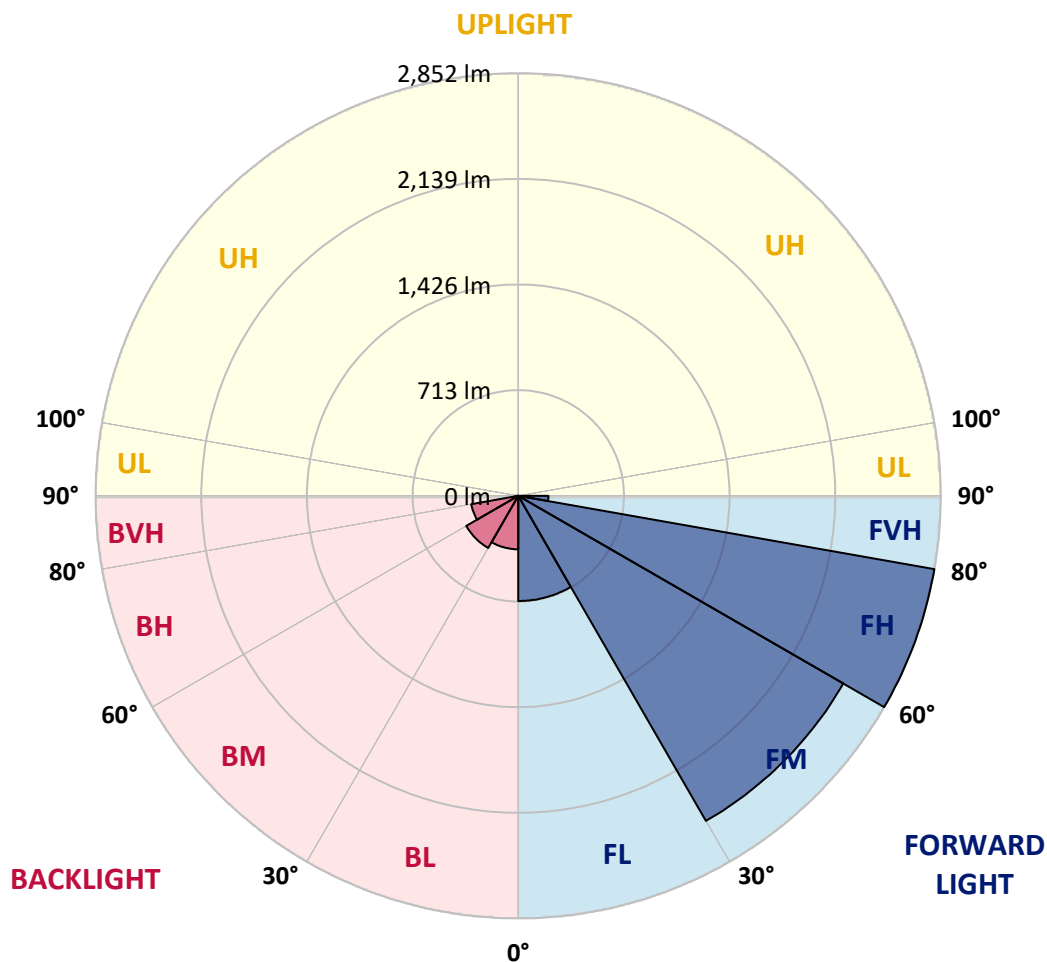


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	710.0	9.6			
FM (30°-60°)	2533.2	34.2			
FH (60°-80°)	2852.0	38.5			G2/5000
FVH (80°-90°)	203.6	2.7			G2/225
BL (0°-30°)	360.9	4.9	B1/500		
BM (30°-60°)	406.1	5.5	B1/1000		
BH (60°-80°)	321.8	4.3	B1/500		G1/500
BVH (80°-90°)	18.4	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2
 Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	2052.0	2052.0	2052.0	2052.0	2052.0	2052.0	2052.0	2052.0	2052.0	2052.0	2052.0
2.5°	2106.4	2103.6	2104.6	2102.5	2097.6	2092.7	2085.5	2086.8	2076.7	2061.8	2043.2
5°	2066.7	2065.6	2073.4	2077.8	2081.4	2078.5	2076.5	2079.0	2064.3	2043.7	2011.5
7.5°	1983.3	1972.0	1981.8	1996.5	2010.4	2021.0	2034.9	2036.7	2027.4	2005.8	1963.5
10°	1864.9	1854.1	1868.5	1891.5	1919.4	1944.6	1972.8	1977.9	1979.7	1960.1	1908.8
12.5°	1742.1	1733.9	1748.3	1780.6	1826.7	1865.7	1910.6	1918.3	1934.3	1921.2	1858.2
15°	1632.2	1629.1	1646.7	1678.4	1731.5	1791.1	1855.9	1870.1	1897.2	1892.8	1818.7
17.5°	1537.3	1536.5	1549.9	1583.2	1642.0	1717.4	1801.5	1825.5	1865.7	1870.9	1786.2
20°	1466.6	1465.1	1474.3	1498.9	1559.5	1644.9	1742.6	1775.7	1833.7	1851.8	1752.7
22.5°	1428.7	1428.4	1428.7	1440.3	1489.8	1569.3	1685.4	1725.6	1802.5	1836.5	1715.6
25°	1422.2	1421.5	1415.8	1414.5	1442.6	1506.1	1628.6	1673.0	1772.8	1826.0	1680.2
27.5°	1439.0	1440.0	1432.6	1420.4	1426.1	1464.5	1579.3	1626.8	1749.1	1823.9	1655.7
30°	1473.8	1473.3	1466.9	1454.2	1443.1	1449.1	1544.3	1591.7	1733.1	1832.9	1638.9
32.5°	1512.3	1515.1	1513.8	1506.8	1490.3	1466.6	1533.7	1580.1	1728.5	1854.6	1631.7
35°	1558.4	1561.5	1570.8	1576.2	1556.9	1518.7	1556.4	1596.6	1741.9	1895.4	1643.3
37.5°	1602.3	1610.3	1636.4	1659.3	1642.8	1600.2	1616.7	1645.4	1783.4	1959.6	1674.5
40°	1652.9	1659.8	1702.4	1751.2	1748.6	1704.5	1714.0	1733.1	1856.7	2051.7	1731.0
42.5°	1702.7	1716.6	1778.2	1847.4	1867.2	1828.3	1843.5	1853.6	1959.9	2173.7	1829.6
45°	1769.0	1783.9	1869.6	1952.9	1999.3	1977.4	2001.7	2005.5	2089.6	2339.9	1972.8
47.5°	1869.3	1886.3	1986.2	2073.6	2144.6	2146.9	2186.9	2185.3	2251.6	2530.0	2153.1
50°	2025.6	2050.2	2131.9	2213.7	2299.9	2347.9	2401.3	2393.8	2445.9	2732.5	2360.8
52.5°	2230.5	2241.8	2302.5	2362.8	2469.9	2577.5	2654.1	2647.4	2666.2	2940.7	2596.5
55°	2442.8	2451.3	2476.3	2509.4	2653.3	2828.7	2990.7	2980.2	2932.4	3156.9	2829.5
57.5°	2633.7	2651.0	2668.3	2681.9	2838.0	3091.4	3335.1	3335.9	3221.4	3390.1	3070.2
60°	2663.4	2678.6	2792.9	2900.7	3154.0	3441.7	3703.8	3696.1	3520.4	3643.2	3338.5
62.5°	2354.3	2388.6	2579.5	2866.4	3458.5	4082.5	4174.1	4164.5	3877.9	3955.1	3650.9
65°	1687.2	1726.1	1956.5	2387.6	3310.9	4788.6	5022.8	4894.4	4365.5	4338.7	4016.7
67.5°	973.4	982.6	1082.5	1428.7	2521.0	4825.5	6317.6	6137.8	5122.7	4773.9	4195.8
70°	719.8	719.5	743.2	879.2	1364.2	3938.3	6933.4	7094.7	5919.8	4917.1	3942.7
71°	650.9	651.7	678.2	800.2	1080.4	3296.4	6802.6	7155.5	6129.8	4846.4	3759.5
72.5°	556.7	559.3	596.2	717.7	908.9	2273.3	6239.2	6790.2	6229.4	4672.0	3472.9
75°	422.3	428.2	479.3	605.0	830.7	1152.9	4579.1	5422.2	5533.9	4122.5	2580.6
77.5°	301.3	308.0	365.8	508.7	789.7	868.9	3066.6	3955.1	4072.4	2642.0	1164.0
80°	190.4	198.4	242.0	404.8	741.9	825.0	1927.1	2658.5	2220.7	845.4	296.2
82.5°	111.7	117.9	150.1	264.4	606.0	794.6	1133.8	1473.6	864.2	255.4	134.7
85°	64.8	67.6	93.6	168.5	440.1	749.9	833.0	823.7	375.1	124.9	63.7
87.5°	30.2	33.5	55.5	88.0	244.3	543.6	658.4	568.8	233.2	58.6	29.9
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°	2052.0	2052.0	2052.0	2052.0	2052.0	2052.0	2052.0	2052.0	2052.0	2052.0	2052.0
2.5°	2034.2	2029.8	2011.5	1995.2	1978.2	1956.0	1931.5	1928.4	1913.4	1916.3	1911.1
5°	1993.9	1982.8	1938.7	1898.7	1851.5	1809.2	1763.3	1742.1	1711.7	1709.6	1701.9
7.5°	1936.4	1915.7	1847.4	1771.5	1695.7	1623.5	1552.0	1505.0	1457.1	1436.7	1434.9
10°	1871.6	1836.5	1735.9	1623.7	1514.3	1408.8	1306.7	1231.1	1163.0	1130.7	1129.4
12.5°	1810.2	1758.4	1620.4	1467.6	1318.0	1181.3	1041.2	941.9	856.5	827.9	815.7
15°	1758.1	1685.1	1507.9	1312.6	1131.0	941.1	781.7	677.2	598.3	570.9	565.7
17.5°	1707.6	1613.7	1392.6	1156.0	936.5	727.8	568.1	490.4	448.4	437.3	437.0
20°	1657.3	1540.1	1272.1	995.8	748.4	544.3	436.8	401.9	387.7	386.5	384.4
22.5°	1600.2	1462.2	1145.4	835.1	584.1	428.0	371.2	357.3	355.5	360.1	360.1
25°	1546.8	1384.8	1016.9	677.7	454.3	357.0	331.5	328.7	333.6	341.8	342.6
27.5°	1497.0	1310.3	891.6	537.9	364.0	314.5	303.9	307.3	316.0	325.6	325.8
30°	1456.0	1239.8	769.8	423.9	307.5	282.7	280.9	287.6	297.2	304.7	306.5
32.5°	1424.3	1179.7	652.2	340.8	270.6	259.0	260.6	266.2	272.2	276.3	279.1
35°	1409.6	1128.1	543.6	287.4	247.1	240.7	242.8	245.9	248.4	251.5	253.9
37.5°	1412.2	1088.2	446.6	254.1	231.4	228.1	228.1	228.1	228.1	229.6	229.9
40°	1436.2	1065.2	367.6	233.0	220.8	217.2	214.4	211.8	209.7	210.8	210.3
42.5°	1497.6	1063.1	309.8	219.5	212.3	206.4	200.7	197.1	194.5	195.5	196.1
45°	1601.8	1088.9	270.9	210.0	204.3	195.3	188.1	184.2	182.4	185.7	186.3
47.5°	1736.7	1145.2	247.1	203.0	196.8	185.0	177.2	173.6	174.1	179.0	180.3
50°	1910.6	1236.5	235.8	198.6	191.7	176.2	168.2	165.1	166.7	173.6	175.2
52.5°	2101.5	1368.1	237.1	197.4	188.3	169.7	161.2	157.6	160.2	166.7	167.9
55°	2321.8	1526.2	258.5	199.2	183.4	165.6	155.6	149.4	151.4	157.4	158.4
57.5°	2566.6	1707.3	301.6	198.6	177.2	161.8	149.6	140.3	141.9	145.5	146.5
60°	2821.5	1926.1	368.4	200.2	174.4	157.1	141.6	130.0	129.5	132.6	133.1
62.5°	3127.5	2179.1	444.8	201.2	176.2	151.2	131.1	119.7	118.2	118.9	119.4
65°	3442.7	2362.3	416.1	197.1	181.9	146.3	121.8	109.6	106.8	106.3	106.5
67.5°	3452.5	2166.0	291.8	188.8	184.2	143.7	114.8	101.1	96.5	94.7	94.4
70°	3096.3	1759.7	227.3	180.1	174.9	139.6	108.4	94.2	87.2	84.4	84.1
71°	2922.4	1619.8	215.4	175.7	167.9	135.4	105.5	91.1	83.8	80.7	80.2
72.5°	2649.7	1452.2	201.0	168.7	154.5	124.9	100.1	86.7	79.2	75.6	74.8
75°	1901.6	949.6	172.6	150.4	128.0	99.6	87.7	77.9	71.5	67.1	66.6
77.5°	732.7	377.9	130.5	125.1	98.0	77.9	72.2	67.3	62.7	58.3	58.0
80°	226.5	169.0	95.2	94.2	70.9	58.0	56.2	54.9	53.1	48.5	47.5
82.5°	121.0	97.0	65.5	60.9	46.4	38.7	40.8	41.3	41.5	36.6	36.1
85°	57.8	51.3	36.9	34.6	27.1	21.7	25.0	27.1	27.3	22.4	20.9
87.5°	27.6	26.8	17.3	13.2	10.1	7.2	8.8	10.8	11.9	8.5	7.5
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)