

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: STREETWORKS

Report Number: P386385

Luminaire Tested: GAW-SA2A-735-U-SL2

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-2019
Report Number: P386385
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-20)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: STREETWORKS
Catalog Number: GAW-SA2A-735-U-SL2
Description: GALLEON WALL LUMINAIRE
(2) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8950.6 lumens
Efficiency: N/A
Efficacy: 135.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G3

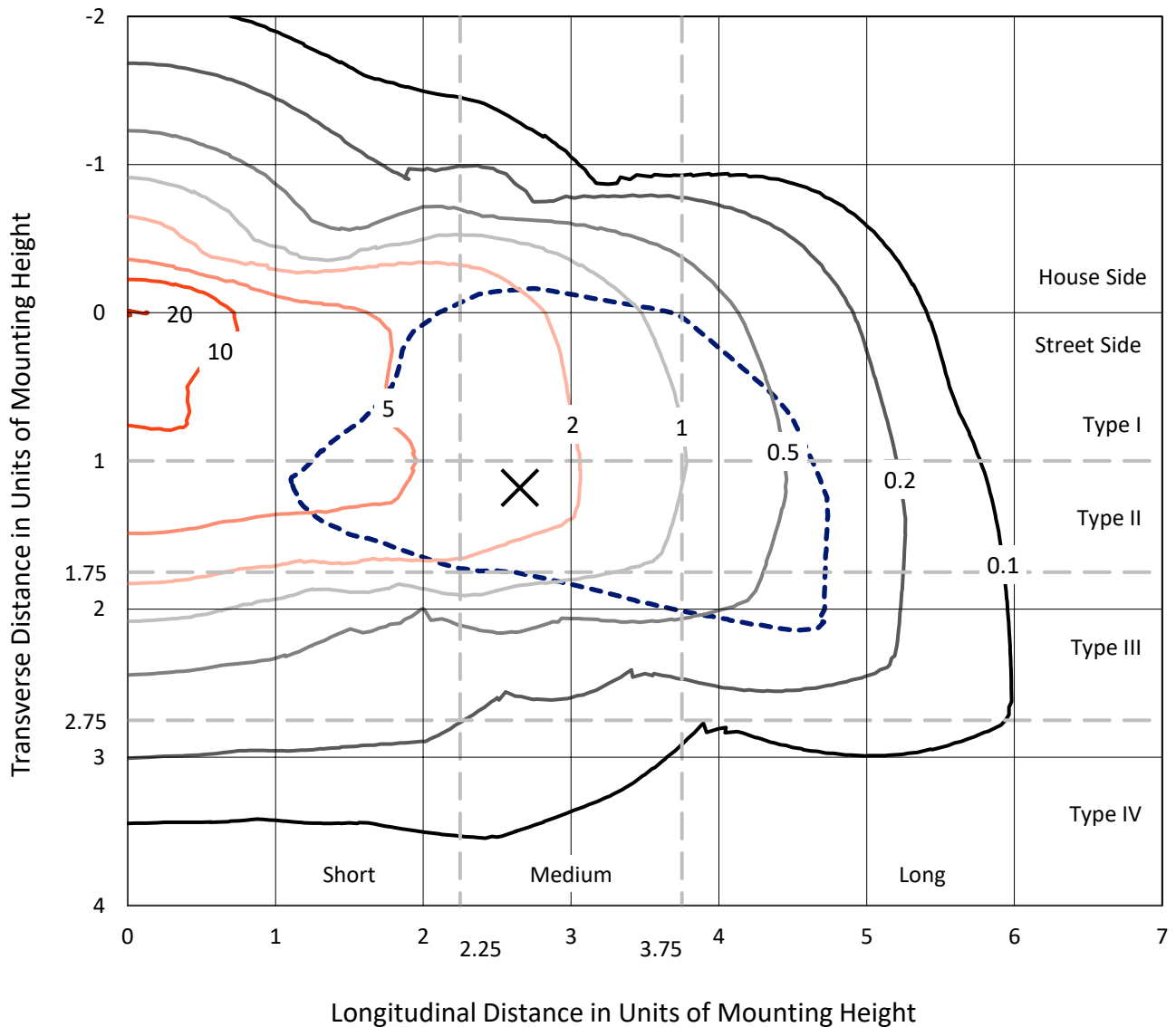
Input Watts (W): 66
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

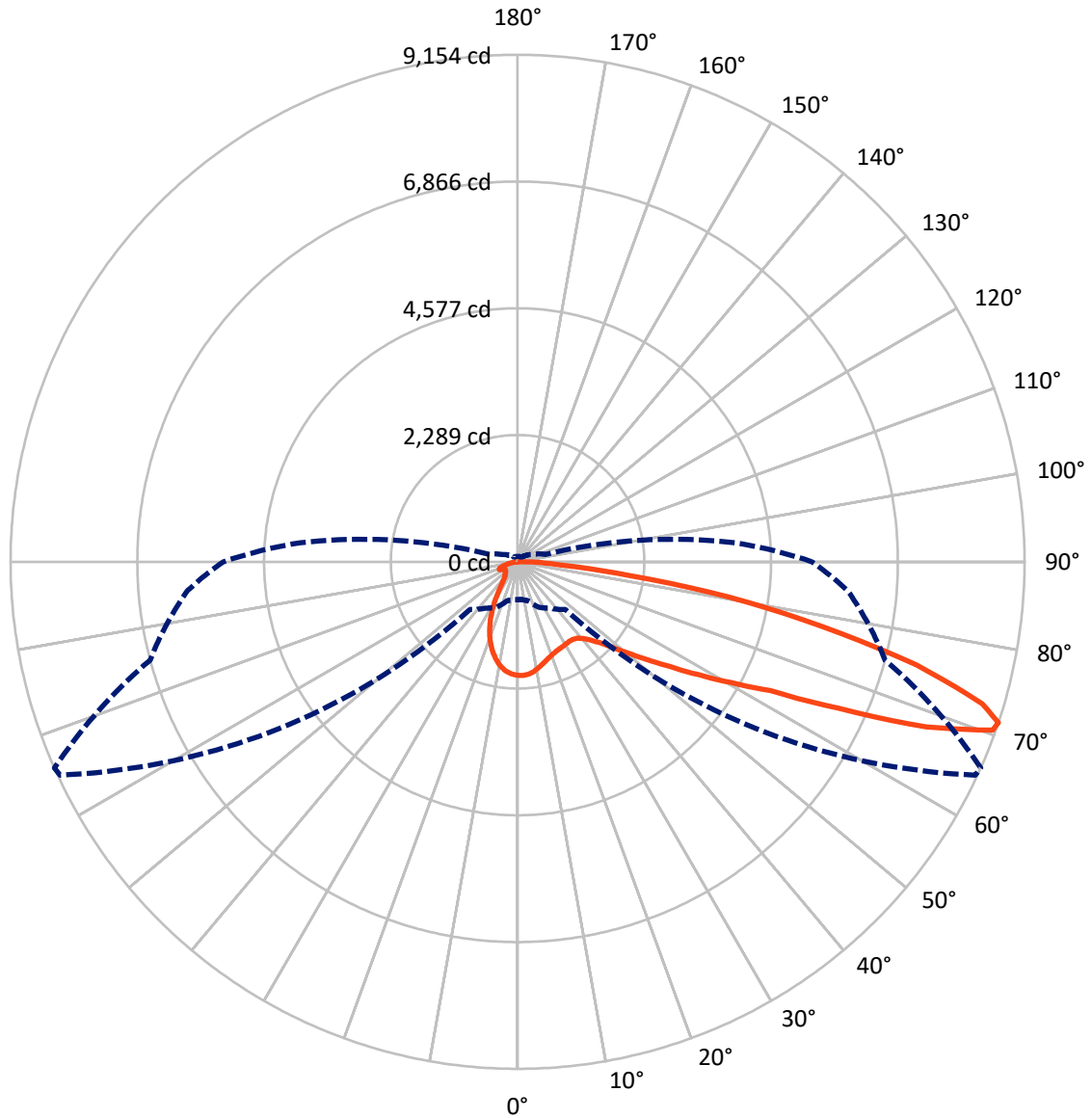
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 20.5 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1658.8	0.0	1658.8
	% Fixture	18.5	0.0	18.5
Street Side	Lumens	7291.8	0.0	7291.8
	% Fixture	81.5	0.0	81.5
Total	Lumens	8950.6	0.0	8950.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	180.5	2.0
10°-20°	432.9	4.8
20°-30°	581.5	6.5
30°-40°	764.9	8.5
40°-50°	1112.7	12.4
50°-60°	1738.2	19.4
60°-70°	2177.4	24.3
70°-80°	1660.9	18.6
80°-90°	301.6	3.4
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°	8950.6	100.0
0°-180°	8950.6	100.0

Coefficient of Utilization

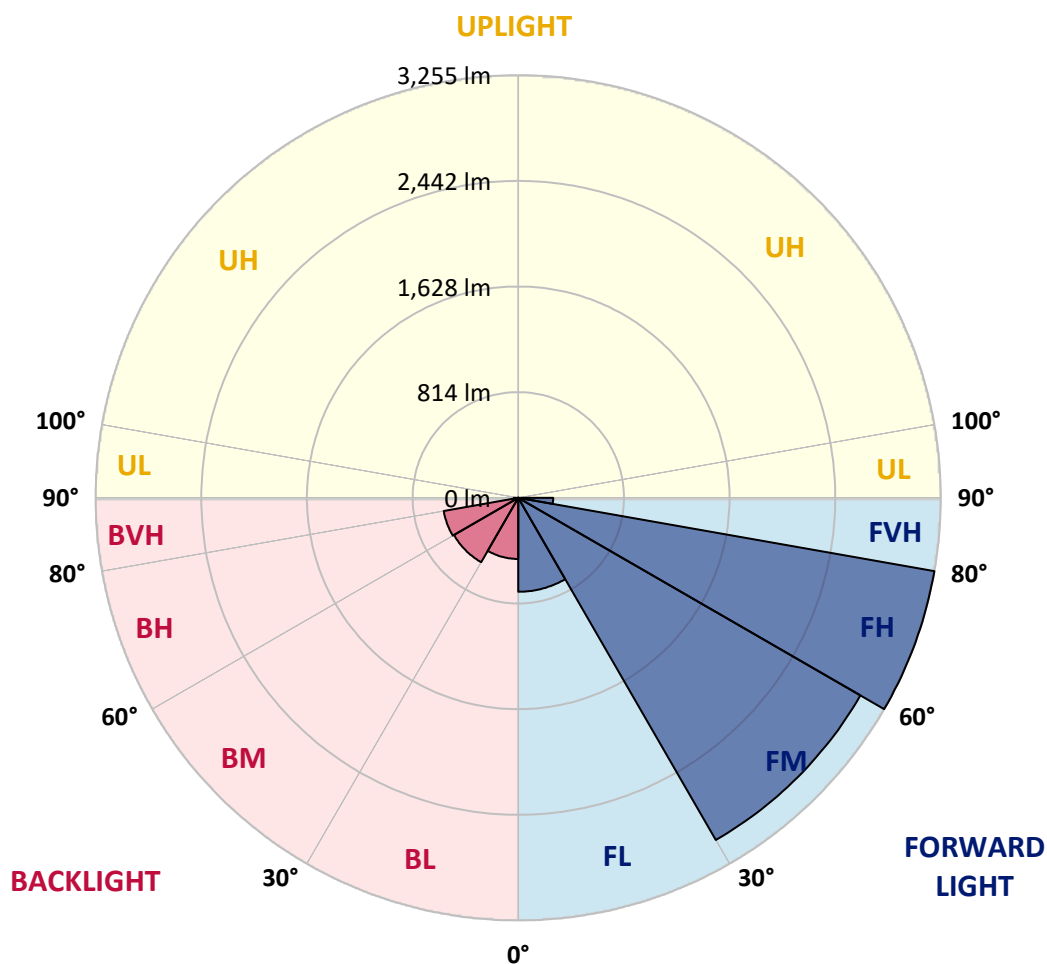


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	723.8	8.1			
FM (30°-60°)	3043.6	34.0			
FH (60°-80°)	3255.4	36.4			G2/5000
FVH (80°-90°)	268.9	3.0			G3/500
BL (0°-30°)	471.0	5.3	B1/500		
BM (30°-60°)	572.2	6.4	B1/1000		
BH (60°-80°)	582.9	6.5	B2/1000		G2/1000
BVH (80°-90°)	32.6	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3
 Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	2050.4	2050.4	2050.4	2050.4	2050.4	2050.4	2050.4	2050.4	2050.4	2050.4	2050.4
2.5°	2012.4	2009.3	2018.6	2028.2	2031.8	2038.0	2047.3	2052.6	2052.3	2053.1	2050.1
5°	1878.9	1874.8	1893.4	1908.6	1937.6	1970.4	2010.2	2038.7	2039.2	2055.3	2059.6
7.5°	1752.5	1749.7	1771.0	1795.5	1829.1	1879.2	1943.8	2004.9	2008.7	2052.3	2067.4
10°	1651.2	1650.5	1671.2	1697.8	1737.0	1793.0	1867.1	1956.8	1962.3	2037.5	2068.6
12.5°	1572.0	1573.3	1591.1	1621.5	1662.9	1721.3	1801.7	1902.6	1911.7	2014.0	2061.5
15°	1513.6	1518.5	1533.1	1563.7	1604.5	1663.8	1746.3	1852.6	1866.2	1987.7	2057.5
17.5°	1480.2	1485.8	1496.0	1521.3	1559.7	1616.8	1695.0	1811.5	1823.8	1967.6	2057.8
20°	1470.3	1474.9	1480.9	1496.3	1528.8	1580.7	1654.6	1774.4	1787.8	1951.5	2060.9
22.5°	1489.8	1493.3	1493.8	1492.6	1512.4	1554.7	1625.2	1747.3	1761.5	1941.0	2063.1
25°	1531.5	1536.2	1532.8	1521.3	1514.9	1540.8	1610.0	1729.3	1743.5	1933.3	2058.8
27.5°	1594.2	1594.9	1592.1	1577.2	1546.7	1542.4	1605.4	1718.8	1732.4	1924.3	2049.8
30°	1679.5	1683.6	1678.6	1658.6	1608.5	1567.1	1611.0	1708.6	1721.0	1912.9	2035.3
32.5°	1779.4	1789.3	1789.0	1767.9	1696.3	1622.4	1633.8	1702.5	1712.0	1900.9	2017.6
35°	1882.9	1896.5	1921.8	1912.9	1824.2	1709.9	1677.7	1712.3	1718.8	1899.3	2005.3
37.5°	1990.5	2004.0	2056.2	2080.4	1976.6	1835.0	1746.9	1747.3	1750.4	1918.1	2004.4
40°	2102.9	2117.5	2195.9	2258.7	2174.0	1993.6	1858.5	1820.2	1816.8	1964.5	2022.6
42.5°	2260.6	2273.5	2367.7	2447.8	2393.1	2196.6	2012.7	1932.6	1925.6	2055.3	2080.9
45°	2459.9	2471.0	2571.1	2656.7	2628.6	2428.3	2206.4	2087.5	2086.2	2206.7	2199.3
47.5°	2696.9	2705.5	2795.4	2878.3	2888.4	2695.0	2449.9	2326.3	2306.3	2414.4	2382.6
50°	2943.8	2953.4	3014.5	3103.6	3179.3	3052.0	2763.3	2619.0	2592.2	2688.5	2642.1
52.5°	3107.2	3119.9	3173.1	3285.9	3506.2	3443.2	3133.8	2973.7	2933.0	3020.7	2985.2
55°	3034.3	3062.8	3144.1	3324.8	3767.6	4040.8	3590.9	3387.5	3341.5	3414.4	3393.5
57.5°	2702.7	2741.7	2852.7	3131.7	3804.5	4567.4	4281.9	3874.9	3842.4	3821.5	3831.0
60°	2096.7	2134.1	2271.6	2635.4	3548.3	4951.8	5321.8	4475.6	4428.7	4230.0	4238.6
62.5°	1484.0	1465.1	1559.4	1825.4	2883.2	4997.0	6505.0	5279.1	5124.6	4661.4	4623.3
65°	1131.7	1127.4	1169.6	1254.4	1746.3	4457.1	7209.9	6629.6	6388.3	5168.8	5079.2
67.5°	929.9	922.1	963.8	1087.2	1124.5	2875.5	7225.3	8196.3	7959.3	5800.5	5606.4
70°	764.6	755.8	794.8	954.0	1039.3	1458.3	6081.1	9113.8	9101.1	6600.2	6004.4
71°	685.4	679.3	725.9	902.7	1021.0	1215.4	5250.4	9116.3	9154.3	6870.9	5980.9
72.5°	558.1	560.3	609.7	803.5	1007.4	1073.3	3858.8	8691.4	8771.8	7129.0	5767.4
75°	370.9	372.7	437.6	618.0	976.9	1050.1	2120.9	7293.1	7440.8	6974.4	5262.8
77.5°	249.0	248.5	292.6	423.9	851.1	1050.1	1243.6	5454.7	5616.9	5549.5	4057.2
80°	171.5	170.3	201.5	292.6	644.3	1062.7	961.4	3822.7	3871.8	2996.9	1649.0
82.5°	105.0	106.0	131.6	206.8	438.5	956.4	907.6	2084.4	2031.0	840.6	411.9
85°	60.2	59.9	84.1	140.0	281.5	807.2	885.1	897.1	822.9	253.1	149.0
87.5°	21.6	23.2	45.1	77.6	161.3	562.1	751.0	466.6	420.6	114.3	67.4
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°	2050.4	2050.4	2050.4	2050.4	2050.4	2050.4	2050.4	2050.4	2050.4	2050.4	2050.4
2.5°	2047.9	2049.8	2047.6	2035.3	2024.8	2007.8	1998.2	1984.8	1980.9	1979.0	1984.0
5°	2055.7	2056.2	2038.0	2005.6	1969.2	1926.1	1895.2	1857.3	1839.3	1831.6	1836.5
7.5°	2062.7	2060.0	2020.1	1958.0	1890.6	1815.8	1749.4	1688.6	1653.0	1638.5	1639.7
10°	2063.7	2051.9	1987.9	1891.8	1787.4	1677.7	1575.7	1481.8	1422.4	1383.8	1395.6
12.5°	2054.1	2034.4	1940.7	1806.3	1661.3	1511.8	1374.0	1233.0	1148.3	1109.1	1110.4
15°	2046.7	2010.9	1882.6	1705.6	1510.8	1312.7	1124.5	958.9	868.7	828.5	809.7
17.5°	2040.6	1985.5	1815.2	1592.1	1333.2	1081.9	855.7	708.0	658.5	646.8	641.9
20°	2031.8	1958.6	1740.1	1460.8	1130.7	823.6	624.9	551.9	552.3	565.8	567.7
22.5°	2019.8	1928.0	1660.1	1313.4	913.5	599.8	489.8	468.8	490.1	516.1	520.7
25°	2001.8	1891.8	1571.1	1150.5	696.6	461.1	418.4	417.5	443.5	470.6	474.7
27.5°	1976.6	1844.6	1472.2	975.6	513.3	391.8	374.8	381.3	400.5	420.3	421.8
30°	1942.6	1789.5	1363.2	791.1	402.3	348.9	347.0	352.9	364.7	378.6	379.8
32.5°	1905.2	1733.7	1246.6	612.5	344.6	325.7	327.6	330.4	335.9	341.5	342.7
35°	1871.2	1676.4	1127.4	465.4	317.0	310.6	309.3	308.7	309.3	307.5	307.7
37.5°	1849.2	1629.2	1003.1	370.5	301.3	297.3	293.6	289.0	283.7	280.6	281.3
40°	1841.2	1594.0	877.3	320.1	288.3	285.6	278.4	268.6	262.4	260.5	260.5
42.5°	1862.8	1575.7	755.8	294.8	277.5	272.9	261.2	249.7	245.1	244.7	244.4
45°	1929.0	1583.2	640.3	280.9	267.6	258.6	243.2	233.6	230.5	231.2	230.8
47.5°	2047.6	1629.8	541.4	271.7	257.8	246.0	228.6	220.9	217.3	217.3	217.6
50°	2249.4	1738.9	462.7	263.9	249.4	234.3	218.1	208.6	203.7	203.4	203.4
52.5°	2543.3	1934.2	413.5	257.4	240.1	223.8	207.7	195.6	189.8	188.5	187.9
55°	2911.7	2214.2	399.9	253.1	227.7	212.3	195.0	182.9	176.4	173.7	173.3
57.5°	3323.6	2554.8	426.8	247.8	215.1	198.7	181.1	169.7	162.9	159.4	159.1
60°	3740.5	2926.5	536.5	240.4	204.6	183.8	166.8	156.4	149.6	145.9	145.2
62.5°	4157.9	3318.3	760.5	239.8	197.2	169.7	152.4	143.4	136.9	132.9	132.0
65°	4629.0	3747.2	1015.1	256.2	194.6	156.7	137.5	130.4	124.8	121.2	120.8
67.5°	5169.7	4231.5	990.8	289.9	203.0	144.9	123.6	118.1	114.0	110.9	110.7
70°	5423.4	4155.8	615.9	313.7	214.7	133.5	110.3	106.3	103.2	101.1	100.1
71°	5317.2	3945.9	516.4	310.8	213.5	128.5	105.0	102.0	98.9	97.0	96.1
72.5°	5027.3	3598.6	430.8	289.2	199.6	119.6	98.3	95.2	92.4	90.3	89.6
75°	4511.2	3213.9	344.9	231.2	159.1	101.1	86.2	82.9	80.7	79.4	78.2
77.5°	3316.2	2293.6	266.7	182.6	117.1	82.5	73.6	71.1	69.0	67.1	66.1
80°	1270.4	888.5	179.5	136.3	86.0	65.2	59.4	58.1	55.9	54.7	54.7
82.5°	342.1	265.5	95.8	82.5	57.5	47.6	45.5	44.8	42.9	40.5	40.8
85°	138.5	117.1	53.7	45.5	35.2	28.1	30.6	30.9	28.7	25.6	25.9
87.5°	60.9	49.8	30.0	20.1	15.4	10.8	13.9	13.9	12.7	10.5	9.6
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)