

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: P386413

Luminaire Tested: GAW-SA2A-750-U-SL2

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-2019
Report Number: P386413
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-750-U-SL2
Description: GALLEON WALL LUMINAIRE
(2) 70 CRI, 5000K, 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: 9527 lumens
Efficiency: N/A
Efficacy: 144.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G3

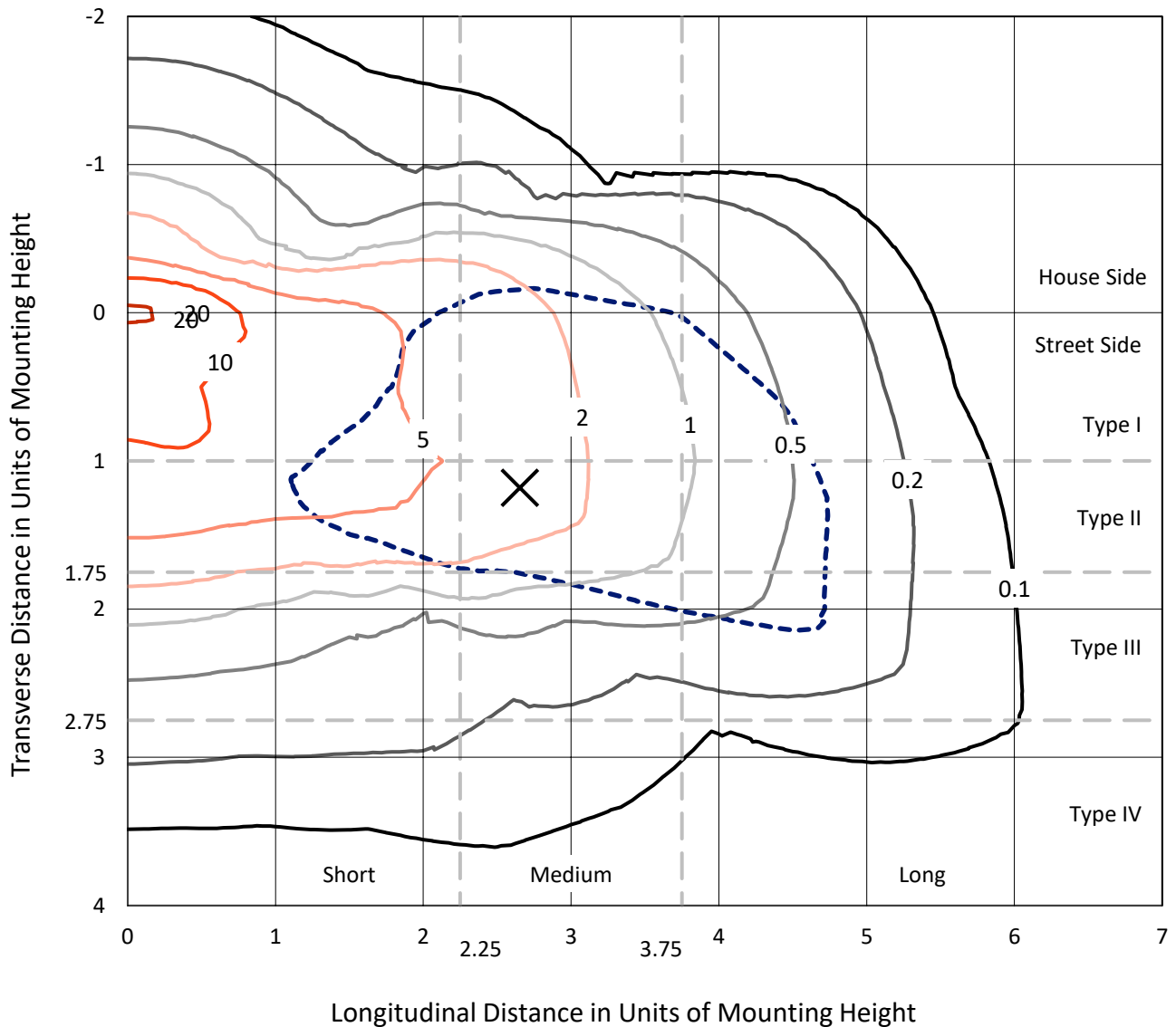
Input Watts (W): 66
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

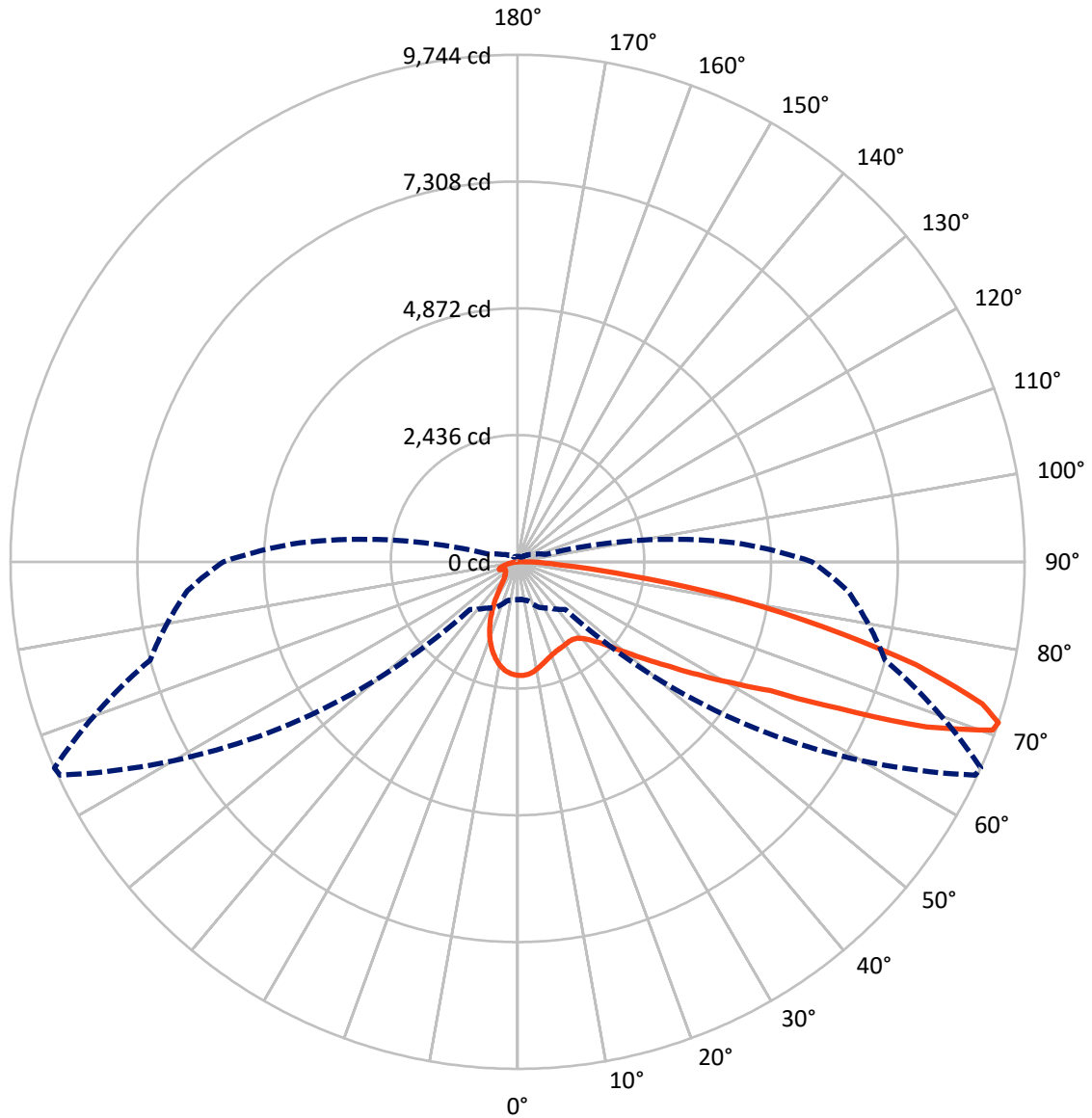
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 21.8 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	1765.6	0.0	1765.6
	% Fixture	18.5	0.0	18.5
Street Side	Lumens	7761.4	0.0	7761.4
	% Fixture	81.5	0.0	81.5
Total	Lumens	9527.0	0.0	9527.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	192.1	2.0
10°-20°	460.8	4.8
20°-30°	618.9	6.5
30°-40°	814.2	8.5
40°-50°	1184.4	12.4
50°-60°	1850.2	19.4
60°-70°	2317.6	24.3
70°-80°	1767.8	18.6
80°-90°	321.0	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°	9527.0	100.0
0°-180°	9527.0	100.0

Coefficient of Utilization

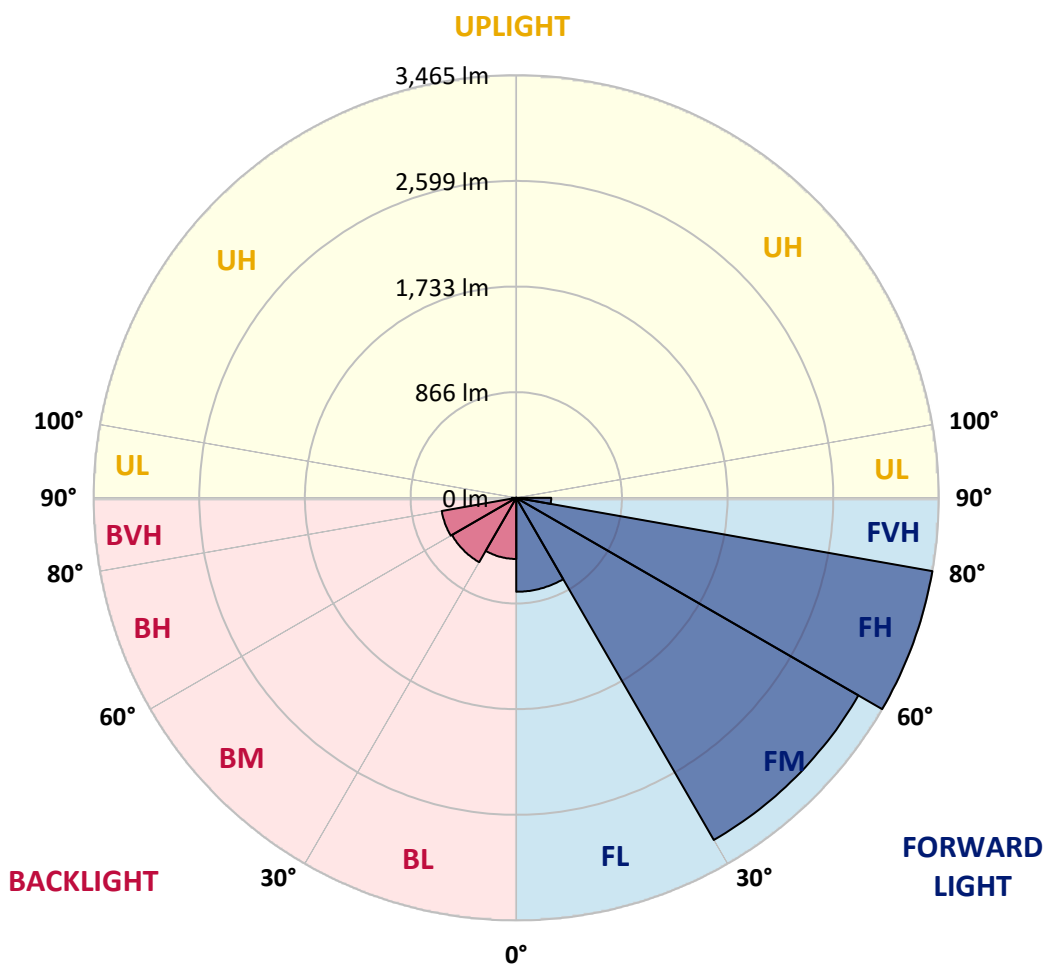


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	770.4	8.1			
FM (30°-60°)	3239.7	34.0			
FH (60°-80°)	3465.1	36.4			G2/5000
FVH (80°-90°)	286.3	3.0			G3/500
BL (0°-30°)	501.4	5.3	B2/1000		
BM (30°-60°)	609.1	6.4	B1/1000		
BH (60°-80°)	620.4	6.5	B2/1000		G2/1000
BVH (80°-90°)	34.8	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°	2182.5	2182.5	2182.5	2182.5	2182.5	2182.5	2182.5	2182.5	2182.5	2182.5	2182.5
2.5°	2142.0	2138.7	2148.6	2158.8	2162.7	2169.3	2179.2	2184.8	2184.4	2185.4	2182.1
5°	1999.9	1995.6	2015.4	2031.5	2062.4	2097.3	2139.7	2170.0	2170.6	2187.7	2192.3
7.5°	1865.4	1862.4	1885.1	1911.1	1946.9	2000.2	2069.0	2134.1	2138.0	2184.4	2200.5
10°	1757.5	1756.8	1778.9	1807.1	1848.9	1908.5	1987.4	2082.8	2088.7	2168.6	2201.9
12.5°	1673.3	1674.6	1693.7	1725.9	1770.0	1832.1	1917.7	2025.2	2034.8	2143.6	2194.3
15°	1611.1	1616.4	1631.8	1664.4	1707.8	1771.0	1858.8	1971.9	1986.4	2115.7	2190.0
17.5°	1575.6	1581.5	1592.4	1619.3	1660.1	1721.0	1804.2	1928.2	1941.3	2094.3	2190.3
20°	1565.0	1570.0	1576.2	1592.7	1627.2	1682.5	1761.1	1888.7	1902.9	2077.2	2193.6
22.5°	1585.8	1589.4	1590.0	1588.7	1609.8	1654.8	1729.8	1859.8	1874.9	2066.0	2195.9
25°	1630.2	1635.1	1631.5	1619.3	1612.4	1640.0	1713.7	1840.7	1855.8	2057.8	2191.3
27.5°	1697.0	1697.6	1694.6	1678.9	1646.3	1641.7	1708.8	1829.5	1844.0	2048.2	2181.8
30°	1787.7	1792.0	1786.7	1765.4	1712.1	1668.0	1714.7	1818.7	1831.8	2036.1	2166.3
32.5°	1894.0	1904.5	1904.2	1881.8	1805.5	1726.9	1739.1	1812.1	1822.3	2023.2	2147.6
35°	2004.2	2018.6	2045.6	2036.1	1941.7	1820.0	1785.8	1822.6	1829.5	2021.6	2134.4
37.5°	2118.6	2133.1	2188.7	2214.4	2103.8	1953.2	1859.4	1859.8	1863.1	2041.7	2133.4
40°	2238.4	2253.8	2337.4	2404.2	2314.0	2121.9	1978.2	1937.4	1933.8	2091.0	2152.8
42.5°	2406.1	2419.9	2520.3	2605.5	2547.2	2338.0	2142.3	2057.1	2049.6	2187.7	2215.0
45°	2618.3	2630.1	2736.7	2827.8	2797.9	2584.7	2348.6	2221.9	2220.6	2348.9	2341.0
47.5°	2870.6	2879.8	2975.5	3063.7	3074.5	2868.6	2607.8	2476.2	2454.8	2569.9	2536.1
50°	3133.4	3143.6	3208.7	3303.4	3384.0	3248.5	2941.3	2787.7	2759.1	2861.7	2812.4
52.5°	3307.4	3320.9	3377.5	3497.5	3732.0	3664.9	3335.7	3165.3	3121.9	3215.3	3177.5
55°	3229.8	3260.0	3346.5	3539.0	4010.3	4301.1	3822.2	3605.7	3556.7	3634.3	3612.0
57.5°	2876.8	2918.3	3036.4	3333.4	4049.5	4861.6	4557.7	4124.5	4089.9	4067.5	4077.7
60°	2231.8	2271.6	2418.0	2805.1	3776.8	5270.8	5664.5	4763.9	4713.9	4502.4	4511.6
62.5°	1579.5	1559.5	1659.8	1943.0	3068.9	5318.8	6924.0	5619.1	5454.6	4961.6	4921.1
65°	1204.5	1199.9	1245.0	1335.1	1858.8	4744.2	7674.3	7056.5	6799.6	5501.7	5406.3
67.5°	989.8	981.5	1025.9	1157.2	1197.0	3060.7	7690.7	8724.2	8471.9	6174.0	5967.4
70°	813.8	804.6	846.0	1015.4	1106.2	1552.2	6472.7	9700.8	9687.3	7025.3	6391.1
71°	729.6	723.0	772.7	960.8	1086.8	1293.7	5588.5	9703.4	9743.9	7313.4	6366.1
72.5°	594.0	596.4	649.0	855.2	1072.3	1142.4	4107.4	9251.2	9336.7	7588.1	6138.8
75°	394.7	396.7	465.8	657.9	1039.7	1117.7	2257.4	7762.8	7920.0	7423.6	5601.7
77.5°	265.1	264.5	311.5	451.3	905.9	1117.7	1323.6	5805.9	5978.6	5906.9	4318.5
80°	182.6	181.2	214.5	311.5	685.8	1131.2	1023.3	4068.9	4121.2	3190.0	1755.2
82.5°	111.8	112.8	140.1	220.1	466.8	1018.0	966.1	2218.6	2161.7	894.7	438.5
85°	64.1	63.8	89.5	149.0	299.7	859.2	942.1	954.9	875.9	269.4	158.5
87.5°	23.0	24.7	48.0	82.6	171.7	598.3	799.3	496.7	447.7	121.7	71.7
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°	2182.5	2182.5	2182.5	2182.5	2182.5	2182.5	2182.5	2182.5	2182.5	2182.5	2182.5
2.5°	2179.8	2181.8	2179.5	2166.3	2155.2	2137.1	2126.9	2112.7	2108.4	2106.5	2111.7
5°	2188.0	2188.7	2169.3	2134.8	2095.9	2050.2	2017.3	1976.9	1957.8	1949.6	1954.8
7.5°	2195.6	2192.6	2150.2	2084.1	2012.4	1932.8	1862.1	1797.3	1759.4	1744.0	1745.3
10°	2196.6	2184.1	2116.0	2013.7	1902.5	1785.8	1677.2	1577.2	1514.1	1472.9	1485.4
12.5°	2186.4	2165.3	2065.7	1922.6	1768.3	1609.1	1462.4	1312.4	1222.3	1180.5	1181.8
15°	2178.5	2140.3	2003.8	1815.4	1608.1	1397.3	1197.0	1020.7	924.6	881.9	861.8
17.5°	2171.9	2113.4	1932.1	1694.6	1419.0	1151.6	910.8	753.6	701.0	688.5	683.2
20°	2162.7	2084.8	1852.2	1554.9	1203.6	876.6	665.1	587.5	587.8	602.3	604.2
22.5°	2149.9	2052.2	1767.0	1398.0	972.3	638.5	521.4	499.0	521.7	549.3	554.2
25°	2130.8	2013.7	1672.3	1224.6	741.4	490.8	445.4	444.4	472.0	501.0	505.2
27.5°	2103.8	1963.4	1567.0	1038.4	546.4	417.1	399.0	405.9	426.3	447.3	449.0
30°	2067.7	1904.8	1450.9	842.1	428.3	371.4	369.4	375.6	388.1	402.9	404.3
32.5°	2027.9	1845.3	1326.9	651.9	366.8	346.7	348.7	351.6	357.5	363.5	364.8
35°	1991.7	1784.4	1199.9	495.4	337.5	330.6	329.3	328.6	329.3	327.3	327.6
37.5°	1968.3	1734.1	1067.7	394.4	320.7	316.4	312.5	307.5	302.0	298.7	299.3
40°	1959.8	1696.6	933.8	340.8	306.9	303.9	296.4	285.8	279.3	277.3	277.3
42.5°	1982.8	1677.2	804.6	313.8	295.4	290.4	277.9	265.8	260.8	260.5	260.2
45°	2053.2	1685.1	681.5	299.0	284.9	275.3	258.9	248.7	245.4	246.0	245.7
47.5°	2179.5	1734.8	576.3	289.1	274.3	261.8	243.4	235.2	231.2	231.2	231.6
50°	2394.3	1850.9	492.4	280.9	265.4	249.3	232.2	222.0	216.8	216.4	216.4
52.5°	2707.1	2058.8	440.1	274.0	255.6	238.1	221.0	208.2	202.0	200.6	200.0
55°	3099.2	2356.8	425.6	269.4	242.4	226.0	207.6	194.7	187.8	184.9	184.5
57.5°	3537.6	2719.3	454.3	263.8	228.9	211.5	192.8	180.6	173.3	169.7	169.4
60°	3981.4	3115.0	571.0	255.9	217.8	195.7	177.6	166.4	159.2	155.3	154.6
62.5°	4425.8	3532.1	809.5	255.2	209.9	180.6	162.2	152.6	145.7	141.4	140.5
65°	4927.0	3988.6	1080.5	272.7	207.2	166.8	146.4	138.8	132.9	128.9	128.6
67.5°	5502.7	4504.0	1054.5	308.5	216.1	154.3	131.6	125.7	121.4	118.1	117.8
70°	5772.7	4423.5	655.6	333.9	228.6	142.1	117.4	113.2	109.9	107.6	106.6
71°	5659.6	4200.1	549.6	330.9	227.3	136.8	111.8	108.5	105.3	103.3	102.3
72.5°	5351.0	3830.4	458.5	307.9	212.5	127.3	104.6	101.3	98.4	96.0	95.4
75°	4801.7	3420.9	367.1	246.0	169.4	107.6	91.8	88.2	85.9	84.5	83.2
77.5°	3529.7	2441.3	283.9	194.4	124.7	87.8	78.3	75.7	73.4	71.4	70.4
80°	1352.2	945.7	191.1	145.1	91.4	69.4	63.2	61.8	59.5	58.2	58.2
82.5°	364.1	282.6	102.0	87.8	61.2	50.7	48.4	47.7	45.7	43.1	43.4
85°	147.4	124.7	57.2	48.4	37.5	29.9	32.6	32.9	30.6	27.3	27.6
87.5°	64.8	53.0	31.9	21.4	16.4	11.5	14.8	14.8	13.5	11.2	10.2
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)