

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: P386669

Luminaire Tested: GAW-SA2B-760-U-SL4

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-2019  
Report Number: P386669  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-24)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: STREETWORKS  
Catalog Number: GAW-SA2B-760-U-SL4  
Description: GALLEON WALL LUMINAIRE  
(2) 70 CRI, 5700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL  
LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 11332 lumens  
Efficiency: N/A  
Efficacy: 131.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G3

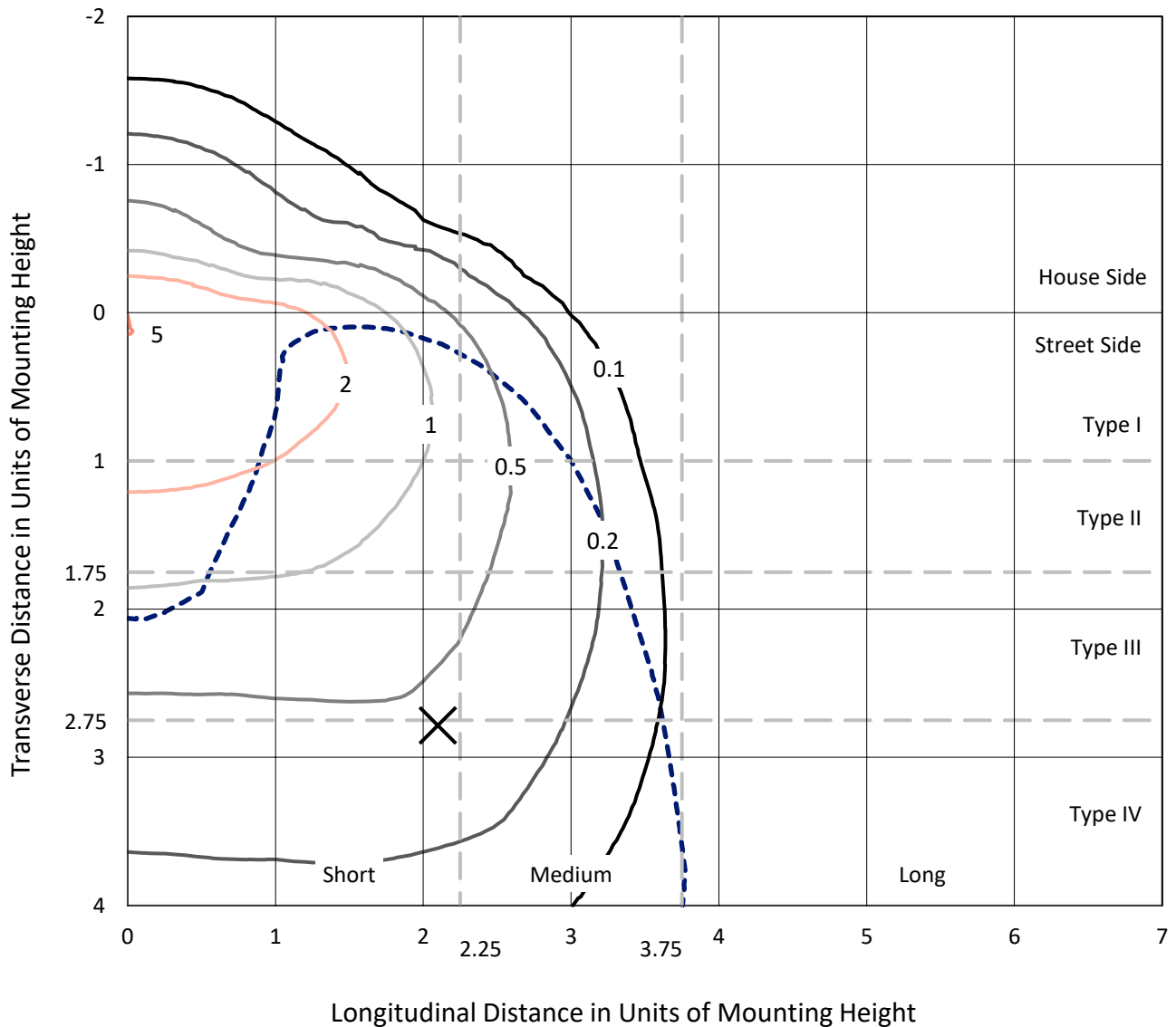
Input Watts (W): 86  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

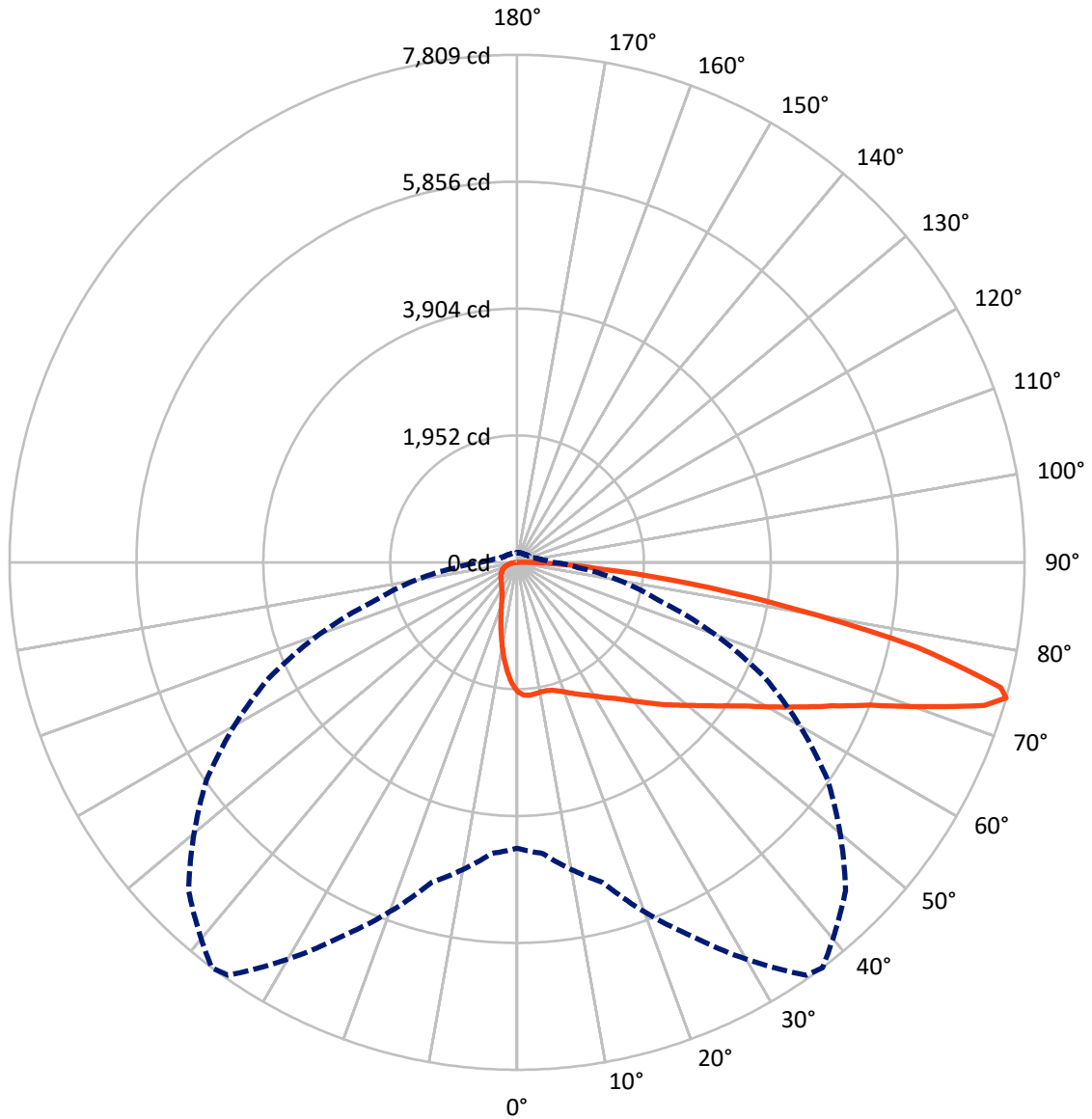
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 5.1 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 37-Deg Lateral      - - - Horizontal Cone Through 74-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1559.2	0.0	1559.2
	% Fixture	13.8	0.0	13.8
<b>Street Side</b>	Lumens	9772.8	0.0	9772.8
	% Fixture	86.2	0.0	86.2
<b>Total</b>	Lumens	11332.0	0.0	11332.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	175.8	1.6
10°-20°	450.7	4.0
20°-30°	694.4	6.1
30°-40°	1009.8	8.9
40°-50°	1486.3	13.1
50°-60°	2087.2	18.4
60°-70°	2641.7	23.3
70°-80°	2326.1	20.5
80°-90°	459.9	4.1
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°	11332.0	100.0
0°-180°	11332.0	100.0

**Coefficient of Utilization**



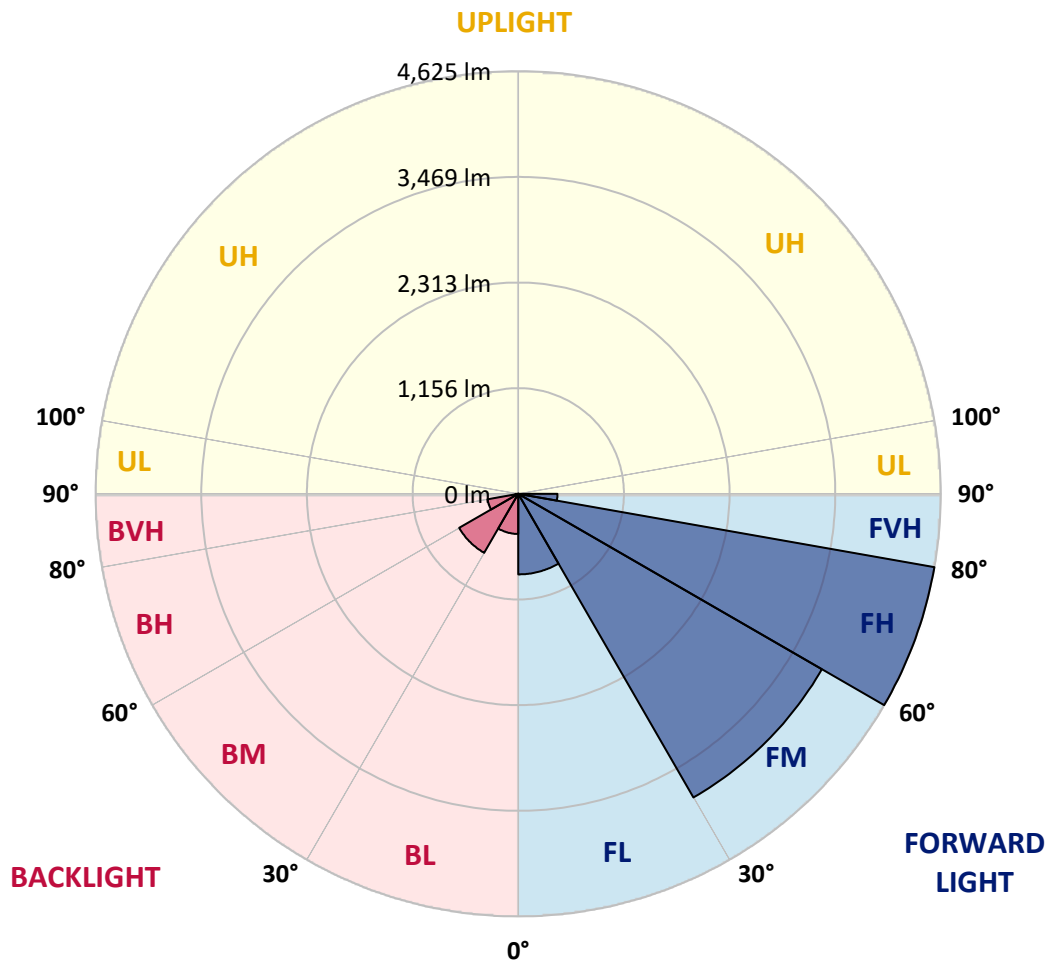
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	881.8	7.8			
FM (30°-60°)	3837.1	33.9			
FH (60°-80°)	4625.1	40.8			G2/5000
FVH (80°-90°)	428.8	3.8			G3/500
BL (0°-30°)	439.2	3.9	B1/500		
BM (30°-60°)	746.1	6.6	B1/1000		
BH (60°-80°)	342.7	3.0	B1/500		G1/500
BVH (80°-90°)	31.2	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G3**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	37°	45°	55°	65°	75°	85°
0°	1996.7	1996.7	1996.7	1996.7	1996.7	1996.7	1996.7	1996.7	1996.7	1996.7	1996.7
2.5°	2064.9	2065.3	2064.9	2061.7	2054.1	2047.7	2042.6	2035.0	2018.2	2005.4	1986.3
5°	2084.5	2082.1	2080.5	2074.5	2062.5	2055.3	2045.4	2031.0	2003.4	1977.9	1946.8
7.5°	2075.3	2072.5	2068.9	2061.7	2048.1	2042.2	2028.2	2009.4	1976.3	1942.8	1898.1
10°	2047.0	2046.2	2044.6	2043.0	2031.4	2026.6	2013.8	1993.9	1961.1	1920.4	1868.1
12.5°	2015.4	2017.4	2023.8	2032.2	2027.0	2024.6	2016.6	2003.0	1969.5	1925.6	1862.5
15°	1995.5	2001.0	2018.2	2040.2	2044.6	2043.8	2041.8	2033.0	1997.5	1948.8	1875.3
17.5°	1988.7	1997.9	2030.6	2066.9	2079.7	2082.5	2083.3	2068.1	2028.6	1977.1	1888.5
20°	2001.0	2012.6	2060.5	2110.4	2130.8	2132.4	2128.8	2102.4	2058.1	2001.4	1895.7
22.5°	2038.6	2048.9	2108.8	2165.1	2188.3	2190.7	2179.9	2140.0	2089.3	2030.2	1905.6
25°	2110.8	2123.6	2183.5	2239.7	2251.7	2252.1	2236.6	2187.1	2130.0	2070.5	1927.2
27.5°	2205.0	2217.8	2271.7	2326.8	2320.4	2316.8	2295.6	2246.1	2183.1	2126.0	1965.5
30°	2310.0	2324.0	2375.1	2414.2	2399.0	2391.8	2374.7	2310.8	2256.9	2201.8	2024.2
32.5°	2418.6	2431.4	2476.1	2502.8	2483.6	2480.5	2454.5	2396.2	2353.1	2317.6	2119.2
35°	2529.9	2539.1	2583.0	2598.2	2572.7	2571.9	2564.7	2511.2	2484.0	2500.8	2257.3
37.5°	2643.7	2646.1	2683.6	2684.4	2676.8	2680.0	2687.6	2654.1	2661.7	2714.0	2436.9
40°	2745.1	2751.5	2778.6	2787.0	2800.2	2811.4	2849.3	2827.3	2886.0	2978.6	2660.5
42.5°	2820.1	2832.5	2876.0	2897.6	2940.3	2957.9	3011.3	3031.7	3149.9	3288.8	2926.3
45°	2883.6	2902.8	2972.6	3016.9	3089.2	3119.9	3196.6	3264.8	3448.0	3625.3	3206.1
47.5°	2952.3	2976.6	3064.0	3148.7	3246.9	3281.6	3420.9	3523.1	3766.2	3963.8	3470.0
50°	3053.3	3072.0	3157.4	3290.4	3412.9	3457.6	3650.4	3796.9	4089.5	4286.3	3698.7
52.5°	3194.2	3187.0	3259.2	3445.6	3610.1	3665.2	3895.5	4088.3	4417.2	4578.1	3891.9
55°	3335.9	3323.9	3374.6	3608.1	3840.0	3897.9	4165.4	4380.9	4729.0	4840.7	4040.0
57.5°	3493.5	3470.8	3513.5	3791.3	4101.9	4170.9	4467.5	4691.9	5035.5	5053.1	4134.2
60°	3656.0	3625.3	3673.2	4018.5	4434.4	4515.8	4821.2	4995.2	5324.5	5223.2	4164.6
62.5°	3798.1	3776.6	3850.4	4271.9	4809.2	4898.6	5168.5	5317.8	5609.6	5293.8	4055.2
65°	3922.3	3925.8	4053.6	4556.9	5227.1	5322.5	5566.8	5715.3	5833.9	5251.9	3799.3
67.5°	4070.3	4090.7	4308.7	4932.2	5753.3	5857.8	6146.4	6148.8	5959.2	5006.0	3295.6
70°	4286.3	4328.2	4659.5	5452.7	6501.3	6645.0	6867.7	6403.5	5783.2	4339.4	2593.0
72.5°	4477.9	4556.1	5032.8	6048.2	7413.0	7522.0	7289.7	6256.6	5047.5	3252.0	1615.4
74°	4400.1	4497.1	5100.6	6341.6	7756.3	7808.6	7147.2	5827.9	4208.5	2252.1	938.9
75°	4232.4	4337.8	5001.6	6338.8	7712.8	7683.6	6803.1	5338.1	3466.0	1536.0	624.7
77.5°	3415.7	3527.1	4214.4	5432.7	6324.1	6296.5	5225.9	3581.0	1518.0	503.8	317.3
80°	1985.9	2070.9	2616.2	3450.0	4264.3	4314.2	3436.9	1771.9	597.2	283.0	215.2
82.5°	882.2	940.8	1263.8	1761.1	2573.5	2637.7	1799.9	928.5	368.8	172.0	129.3
85°	578.8	622.3	767.2	838.7	1225.5	1269.4	881.0	722.9	243.5	94.6	95.0
87.5°	416.3	458.2	570.0	497.8	562.4	532.5	479.4	669.0	97.8	53.9	31.9
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°	1996.7	1996.7	1996.7	1996.7	1996.7	1996.7	1996.7	1996.7	1996.7	1996.7	1996.7
2.5°	1977.9	1971.5	1957.1	1930.0	1914.8	1902.1	1880.9	1868.5	1862.9	1862.5	1864.9
5°	1928.8	1914.0	1876.9	1831.4	1795.1	1761.9	1720.8	1696.1	1678.5	1668.1	1670.9
7.5°	1871.7	1848.6	1790.3	1717.6	1659.4	1595.1	1531.6	1493.7	1464.2	1442.2	1446.2
10°	1832.6	1800.7	1715.6	1611.1	1514.1	1420.7	1333.2	1280.9	1239.4	1207.5	1209.9
12.5°	1819.4	1776.3	1658.6	1518.8	1382.7	1255.0	1140.8	1060.6	1017.9	981.6	984.4
15°	1821.4	1763.5	1610.7	1435.8	1264.6	1103.7	965.2	871.4	813.5	788.4	788.8
17.5°	1823.0	1748.8	1560.4	1346.8	1147.6	962.4	811.9	716.9	662.2	639.1	639.5
20°	1817.8	1724.8	1498.1	1244.6	1025.5	832.7	687.0	606.3	564.8	546.9	546.9
22.5°	1811.0	1696.5	1427.8	1142.0	904.9	720.1	597.6	536.1	512.1	500.2	499.8
25°	1814.2	1675.3	1356.0	1036.6	794.0	630.3	538.1	497.4	481.4	473.8	473.4
27.5°	1831.4	1665.3	1289.7	931.7	697.0	562.8	498.2	469.4	459.0	454.3	454.3
30°	1862.5	1665.3	1220.7	842.3	616.3	512.9	467.4	447.9	440.7	437.5	437.5
32.5°	1916.8	1674.5	1154.0	753.6	552.1	473.8	441.9	428.7	423.1	421.5	421.5
35°	2010.2	1705.7	1088.9	669.8	500.2	441.9	417.5	409.9	406.0	405.6	406.8
37.5°	2141.6	1769.1	1027.9	607.9	463.4	415.9	397.2	391.2	388.8	390.8	392.4
40°	2306.8	1855.3	972.4	552.1	435.5	395.2	378.4	374.4	373.2	376.0	378.4
42.5°	2506.4	1971.9	926.9	511.7	413.9	377.6	362.4	357.7	356.5	359.7	362.8
45°	2722.3	2097.2	894.9	481.8	397.2	364.4	348.5	343.3	340.9	342.5	346.1
47.5°	2918.7	2215.8	882.2	460.6	381.2	353.3	336.1	329.7	325.7	324.9	327.7
50°	3084.4	2304.0	888.2	447.9	368.4	340.9	324.1	316.9	311.0	307.4	309.4
52.5°	3204.9	2359.5	893.7	442.3	358.5	327.3	311.0	304.2	296.2	290.2	290.2
55°	3292.4	2372.3	881.4	437.9	350.9	312.6	296.2	289.8	281.8	275.0	274.2
57.5°	3326.7	2336.3	835.5	431.5	345.7	298.6	280.6	275.8	269.0	261.1	260.7
60°	3280.4	2225.4	746.8	417.9	338.9	287.0	265.0	261.9	258.7	251.1	250.7
62.5°	3094.4	1981.9	632.3	390.4	325.3	274.6	250.7	252.3	252.7	247.5	246.7
65°	2757.1	1647.4	520.5	354.5	305.0	259.9	235.9	243.5	247.9	247.1	245.9
67.5°	2266.9	1282.1	441.1	316.5	278.2	239.5	219.9	228.7	232.3	235.1	234.3
70°	1682.5	904.1	364.8	276.6	245.9	215.6	199.2	203.6	201.2	204.4	205.6
72.5°	938.1	542.5	297.4	236.7	212.4	187.6	176.0	175.2	170.0	170.0	170.0
74°	562.8	398.0	261.5	212.0	192.0	169.2	159.3	155.7	150.9	151.3	150.9
75°	452.7	342.1	239.9	195.6	177.6	158.5	148.5	143.7	140.1	140.1	139.7
77.5°	285.8	259.9	193.2	155.7	142.1	130.5	123.7	117.4	117.4	117.0	116.6
80°	216.0	206.8	150.5	117.8	109.0	100.2	95.8	93.0	93.0	94.2	93.8
82.5°	148.1	155.7	105.8	82.2	77.8	71.5	70.7	71.1	69.9	68.3	67.9
85°	108.2	117.0	71.5	51.9	47.5	43.5	46.7	48.3	46.3	42.7	41.1
87.5°	41.5	76.6	38.3	21.6	20.0	17.2	20.0	20.8	22.4	17.6	18.0
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)