

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: P386613

Luminaire Tested: GAW-SA2B-740-U-SL4

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-2019  
Report Number: P386613  
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-740-U-SL4  
Description: GALLEON WALL LUMINAIRE  
(2) 70 CRI, 4000K, 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: 11333 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

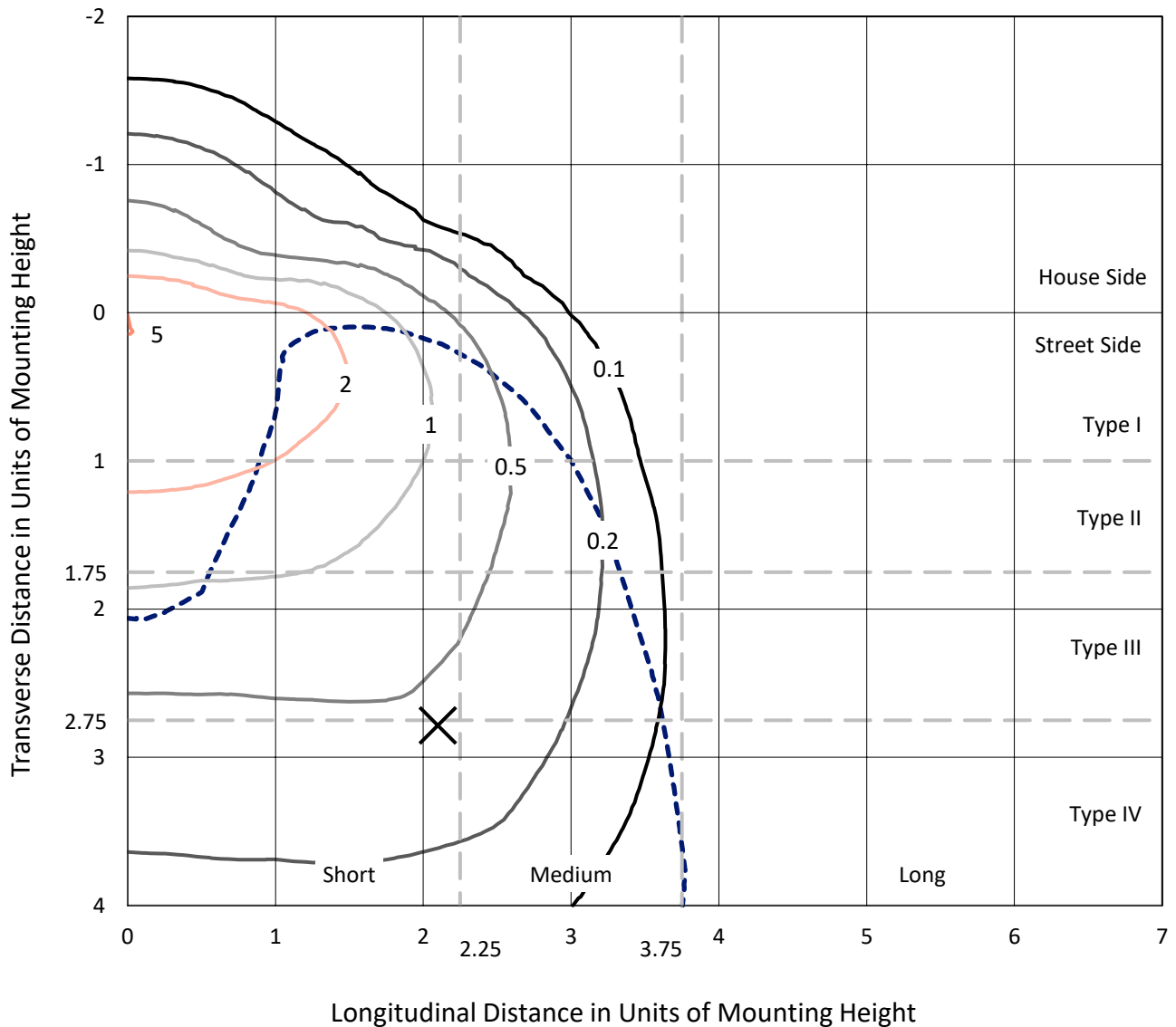
Input Watts (W): 86  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

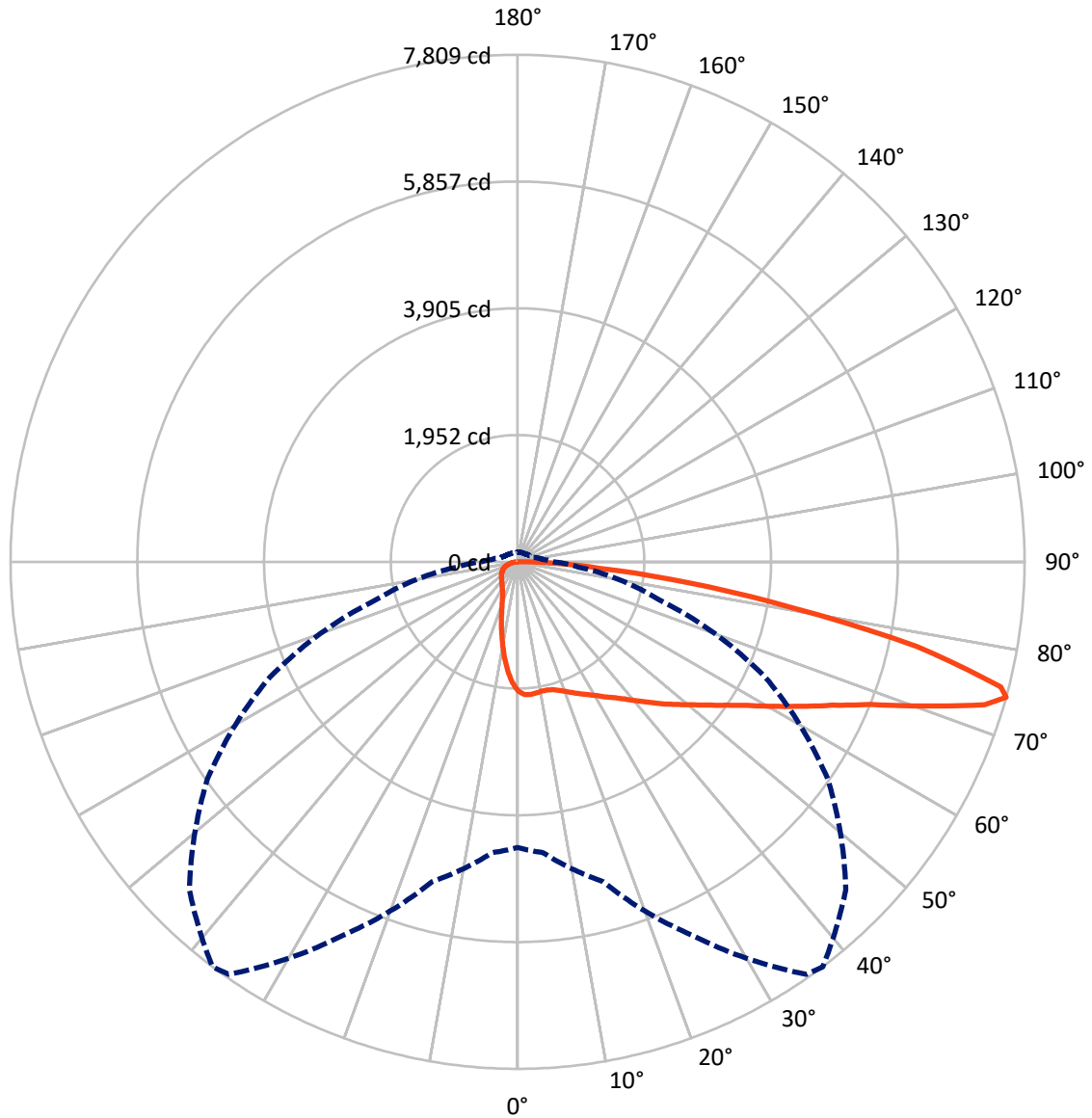
× Max cd  
 - - - 1/2 Max cd



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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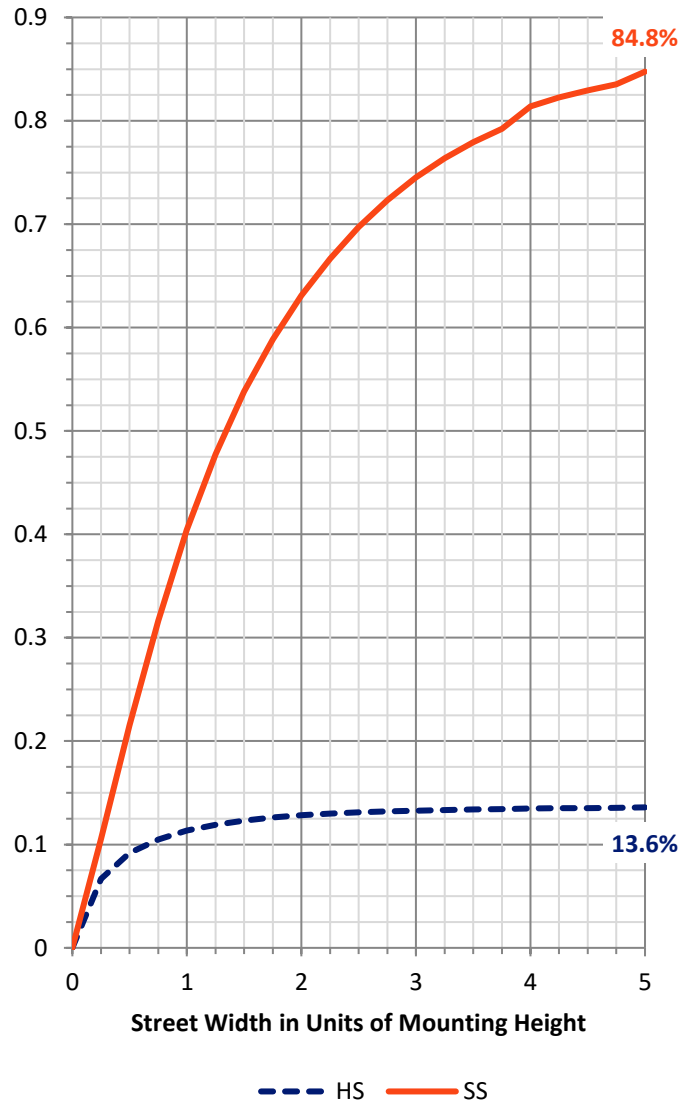
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1559.3	0.0	1559.3
	% Fixture	13.8	0.0	13.8
<b>Street Side</b>	Lumens	9773.7	0.0	9773.7
	% Fixture	86.2	0.0	86.2
<b>Total</b>	Lumens	11333.0	0.0	11333.0
	% 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°	694.5	6.1
30°-40°	1009.9	8.9
40°-50°	1486.4	13.1
50°-60°	2087.4	18.4
60°-70°	2642.0	23.3
70°-80°	2326.4	20.5
80°-90°	460.0	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°	11333.0	100.0
0°-180°	11333.0	100.0

**Coefficient of Utilization**



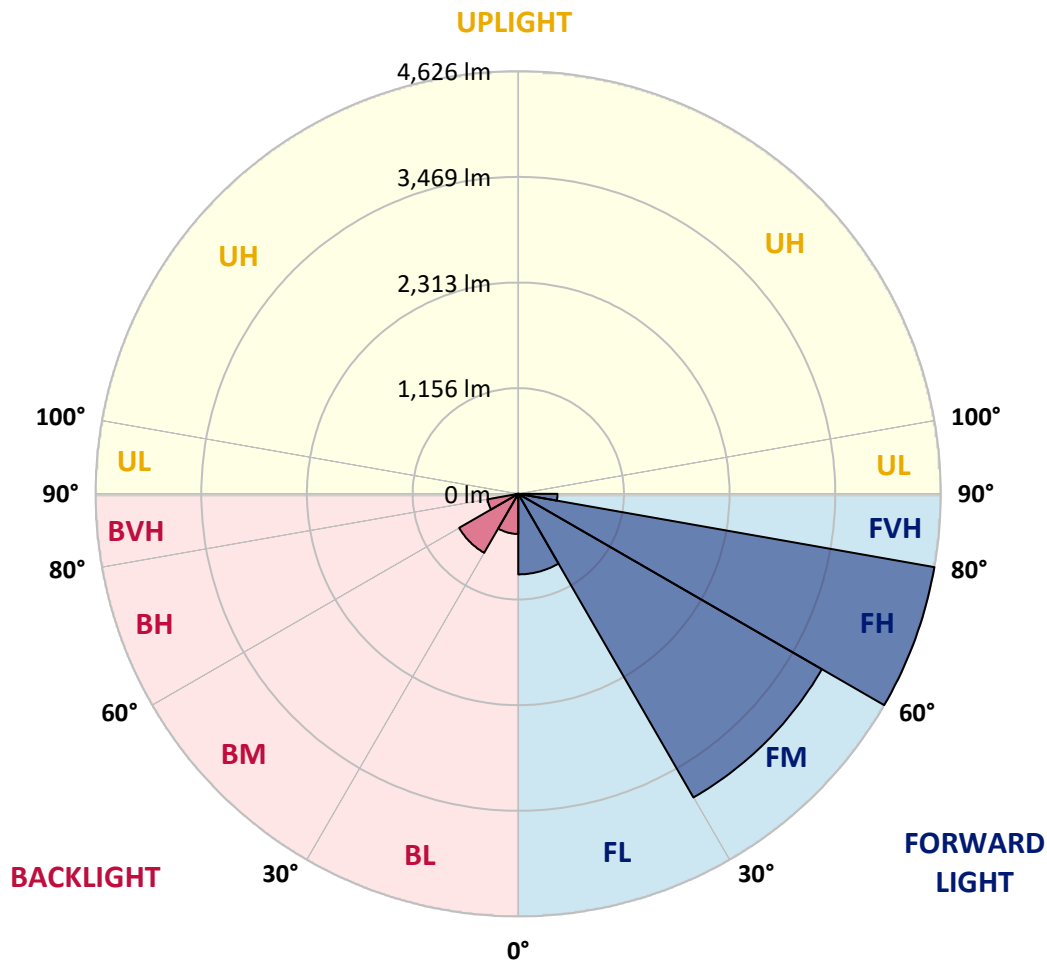
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	881.8	7.8			
FM (30°-60°)	3837.4	33.9			
FH (60°-80°)	4625.5	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°)	746.2	6.6	B1/1000		
BH (60°-80°)	342.8	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°	1996.8	1996.8	1996.8	1996.8	1996.8	1996.8	1996.8	1996.8	1996.8	1996.8	1996.8
2.5°	2065.1	2065.5	2065.1	2061.9	2054.3	2047.9	2042.7	2035.2	2018.4	2005.6	1986.5
5°	2084.7	2082.3	2080.7	2074.7	2062.7	2055.5	2045.5	2031.2	2003.6	1978.1	1946.9
7.5°	2075.5	2072.7	2069.1	2061.9	2048.3	2042.3	2028.4	2009.6	1976.5	1942.9	1898.2
10°	2047.1	2046.3	2044.7	2043.1	2031.6	2026.8	2014.0	1994.0	1961.3	1920.6	1868.3
12.5°	2015.6	2017.6	2024.0	2032.4	2027.2	2024.8	2016.8	2003.2	1969.7	1925.8	1862.7
15°	1995.6	2001.2	2018.4	2040.3	2044.7	2043.9	2041.9	2033.2	1997.6	1948.9	1875.5
17.5°	1988.8	1998.0	2030.8	2067.1	2079.9	2082.7	2083.5	2068.3	2028.8	1977.3	1888.6
20°	2001.2	2012.8	2060.7	2110.6	2131.0	2132.6	2129.0	2102.6	2058.3	2001.6	1895.8
22.5°	2038.7	2049.1	2109.0	2165.3	2188.4	2190.8	2180.1	2140.1	2089.4	2030.4	1905.8
25°	2111.0	2123.8	2183.7	2239.9	2251.9	2252.3	2236.8	2187.3	2130.2	2070.7	1927.4
27.5°	2205.2	2218.0	2271.9	2327.0	2320.6	2317.0	2295.8	2246.3	2183.3	2126.2	1965.7
30°	2310.2	2324.2	2375.3	2414.4	2399.2	2392.0	2374.9	2311.0	2257.1	2202.0	2024.4
32.5°	2418.8	2431.6	2476.3	2503.0	2483.9	2480.7	2454.7	2396.4	2353.3	2317.8	2119.4
35°	2530.2	2539.4	2583.3	2598.4	2572.9	2572.1	2564.9	2511.4	2484.3	2501.0	2257.5
37.5°	2643.9	2646.3	2683.9	2684.7	2677.1	2680.3	2687.9	2654.3	2661.9	2714.2	2437.2
40°	2745.3	2751.7	2778.9	2787.3	2800.4	2811.6	2849.5	2827.6	2886.3	2978.9	2660.7
42.5°	2820.4	2832.8	2876.3	2897.8	2940.6	2958.1	3011.6	3032.0	3150.1	3289.1	2926.6
45°	2883.9	2903.0	2972.9	3017.2	3089.5	3120.2	3196.8	3265.1	3448.3	3625.6	3206.4
47.5°	2952.5	2976.9	3064.3	3148.9	3247.1	3281.9	3421.2	3523.4	3766.5	3964.1	3470.3
50°	3053.5	3072.3	3157.7	3290.7	3413.2	3457.9	3650.7	3797.3	4089.9	4286.7	3699.0
52.5°	3194.5	3187.3	3259.5	3446.0	3610.4	3665.5	3895.9	4088.7	4417.6	4578.5	3892.3
55°	3336.2	3324.2	3374.9	3608.4	3840.4	3898.3	4165.7	4381.3	4729.4	4841.2	4040.4
57.5°	3493.9	3471.1	3513.8	3791.7	4102.2	4171.3	4467.9	4692.3	5036.0	5053.6	4134.6
60°	3656.3	3625.6	3673.5	4018.8	4434.8	4516.2	4821.6	4995.7	5325.0	5223.6	4164.9
62.5°	3798.4	3776.9	3850.7	4272.3	4809.6	4899.1	5168.9	5318.2	5610.0	5294.3	4055.5
65°	3922.6	3926.2	4053.9	4557.3	5227.6	5323.0	5567.3	5715.8	5834.4	5252.4	3799.6
67.5°	4070.7	4091.1	4309.0	4932.6	5753.8	5858.4	6147.0	6149.4	5959.8	5006.4	3295.8
70°	4286.7	4328.6	4659.9	5453.2	6501.9	6645.6	6868.3	6404.1	5783.7	4339.8	2593.2
72.5°	4478.3	4556.5	5033.2	6048.8	7413.7	7522.6	7290.3	6257.2	5048.0	3252.3	1615.6
74°	4400.5	4497.5	5101.1	6342.2	7757.0	7809.3	7147.8	5828.4	4208.8	2252.3	938.9
75°	4232.8	4338.2	5002.1	6339.4	7713.5	7684.3	6803.7	5338.6	3466.3	1536.1	624.8
77.5°	3416.0	3527.4	4214.8	5433.2	6324.6	6297.1	5226.4	3581.3	1518.2	503.8	317.4
80°	1986.1	2071.1	2616.4	3450.3	4264.7	4314.6	3437.2	1772.1	597.2	283.0	215.2
82.5°	882.2	940.9	1263.9	1761.3	2573.7	2638.0	1800.0	928.6	368.9	172.1	129.3
85°	578.8	622.4	767.3	838.7	1225.6	1269.5	881.0	723.0	243.5	94.6	95.0
87.5°	416.4	458.3	570.1	497.8	562.5	532.5	479.4	669.1	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°	1996.8	1996.8	1996.8	1996.8	1996.8	1996.8	1996.8	1996.8	1996.8	1996.8	1996.8
2.5°	1978.1	1971.7	1957.3	1930.2	1915.0	1902.2	1881.1	1868.7	1863.1	1862.7	1865.1
5°	1929.0	1914.2	1877.1	1831.6	1795.2	1762.1	1721.0	1696.2	1678.7	1668.3	1671.1
7.5°	1871.9	1848.7	1790.4	1717.8	1659.5	1595.2	1531.8	1493.8	1464.3	1442.3	1446.3
10°	1832.8	1800.8	1715.8	1611.2	1514.2	1420.8	1333.3	1281.1	1239.5	1207.6	1210.0
12.5°	1819.6	1776.5	1658.7	1519.0	1382.9	1255.1	1140.9	1060.7	1018.0	981.6	984.4
15°	1821.6	1763.7	1610.8	1435.9	1264.7	1103.8	965.3	871.5	813.6	788.4	788.8
17.5°	1823.2	1748.9	1560.5	1346.9	1147.7	962.5	812.0	717.0	662.3	639.1	639.5
20°	1818.0	1725.0	1498.2	1244.7	1025.6	832.7	687.0	606.4	564.9	546.9	546.9
22.5°	1811.2	1696.6	1428.0	1142.1	905.0	720.2	597.6	536.1	512.2	500.2	499.8
25°	1814.4	1675.5	1356.1	1036.7	794.0	630.3	538.1	497.4	481.4	473.9	473.5
27.5°	1831.6	1665.5	1289.8	931.7	697.0	562.9	498.2	469.5	459.1	454.3	454.3
30°	1862.7	1665.5	1220.8	842.3	616.4	513.0	467.5	447.9	440.7	437.5	437.5
32.5°	1917.0	1674.7	1154.1	753.7	552.1	473.9	441.9	428.7	423.2	421.6	421.6
35°	2010.4	1705.8	1089.0	669.9	500.2	441.9	417.6	410.0	406.0	405.6	406.8
37.5°	2141.7	1769.3	1028.0	608.0	463.5	416.0	397.2	391.2	388.8	390.8	392.4
40°	2307.0	1855.5	972.5	552.1	435.5	395.2	378.4	374.5	373.3	376.1	378.4
42.5°	2506.6	1972.1	927.0	511.8	414.0	377.6	362.5	357.7	356.5	359.7	362.9
45°	2722.6	2097.4	895.0	481.8	397.2	364.5	348.5	343.3	340.9	342.5	346.1
47.5°	2919.0	2216.0	882.2	460.7	381.2	353.3	336.1	329.7	325.8	325.0	327.7
50°	3084.7	2304.2	888.2	447.9	368.5	340.9	324.2	317.0	311.0	307.4	309.4
52.5°	3205.2	2359.7	893.8	442.3	358.5	327.3	311.0	304.2	296.2	290.2	290.2
55°	3292.7	2372.5	881.4	437.9	350.9	312.6	296.2	289.8	281.8	275.1	274.3
57.5°	3327.0	2336.6	835.5	431.5	345.7	298.6	280.6	275.9	269.1	261.1	260.7
60°	3280.7	2225.6	746.9	418.0	338.9	287.0	265.1	261.9	258.7	251.1	250.7
62.5°	3094.6	1982.1	632.3	390.4	325.4	274.7	250.7	252.3	252.7	247.5	246.7
65°	2757.3	1647.5	520.6	354.5	305.0	259.9	235.9	243.5	247.9	247.1	245.9
67.5°	2267.1	1282.3	441.1	316.6	278.2	239.5	220.0	228.7	232.3	235.1	234.3
70°	1682.7	904.2	364.9	276.7	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	176.1	175.3	170.1	170.1	170.1
74°	562.9	398.0	261.5	212.0	192.0	169.3	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	123.8	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)