

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: P386580

Luminaire Tested: GAW-SA2B-730-U-SL2-HSS

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-2019  
Report Number: P386580  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-21)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: STREETWORKS  
Catalog Number: GAW-SA2B-730-U-SL2-HSS  
Description: GALLEON WALL LUMINAIRE  
(2) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL  
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8996 lumens  
Efficiency: N/A  
Efficacy: 104.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B1 - U0 - G2

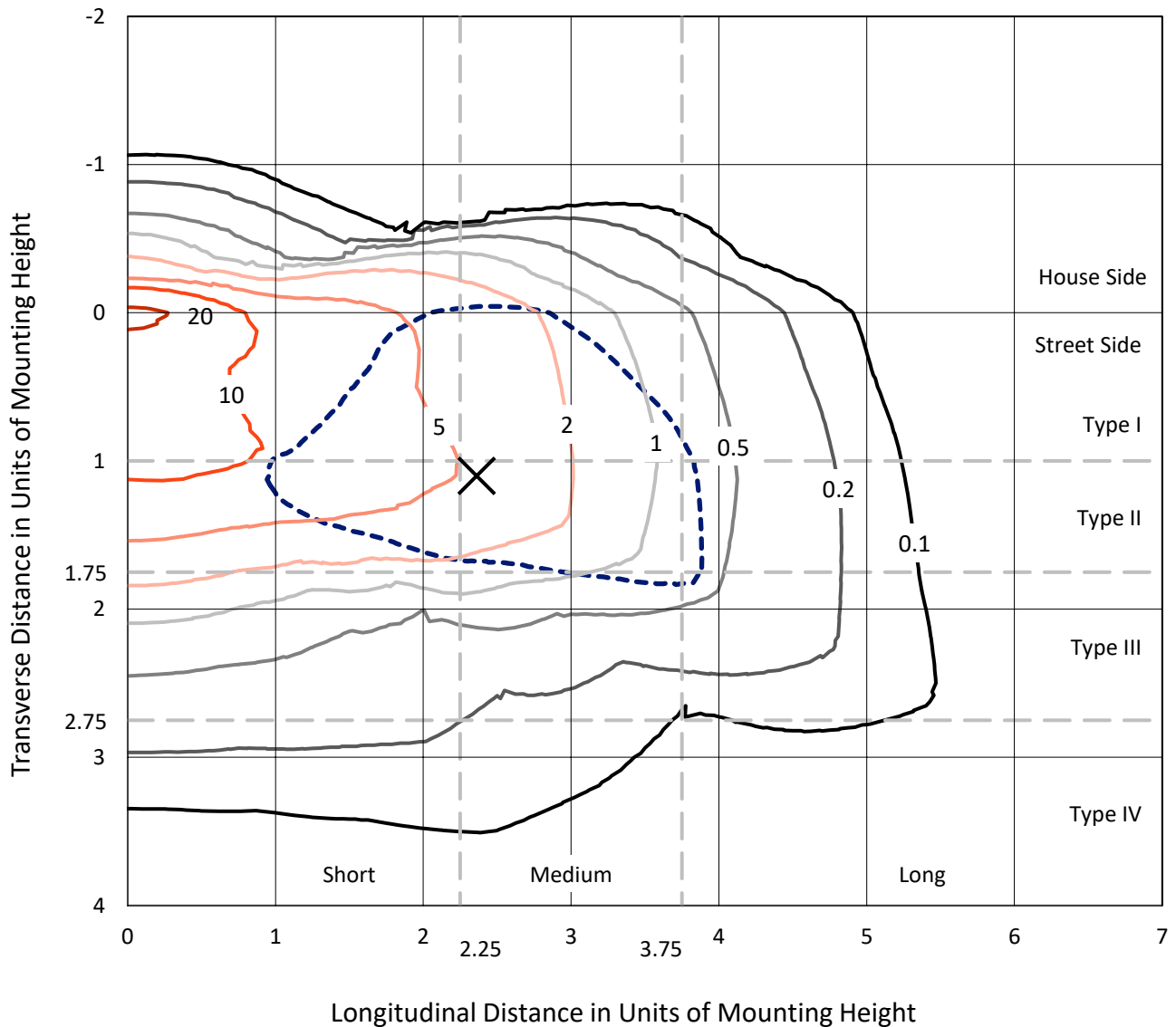
Input Watts (W): 86  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

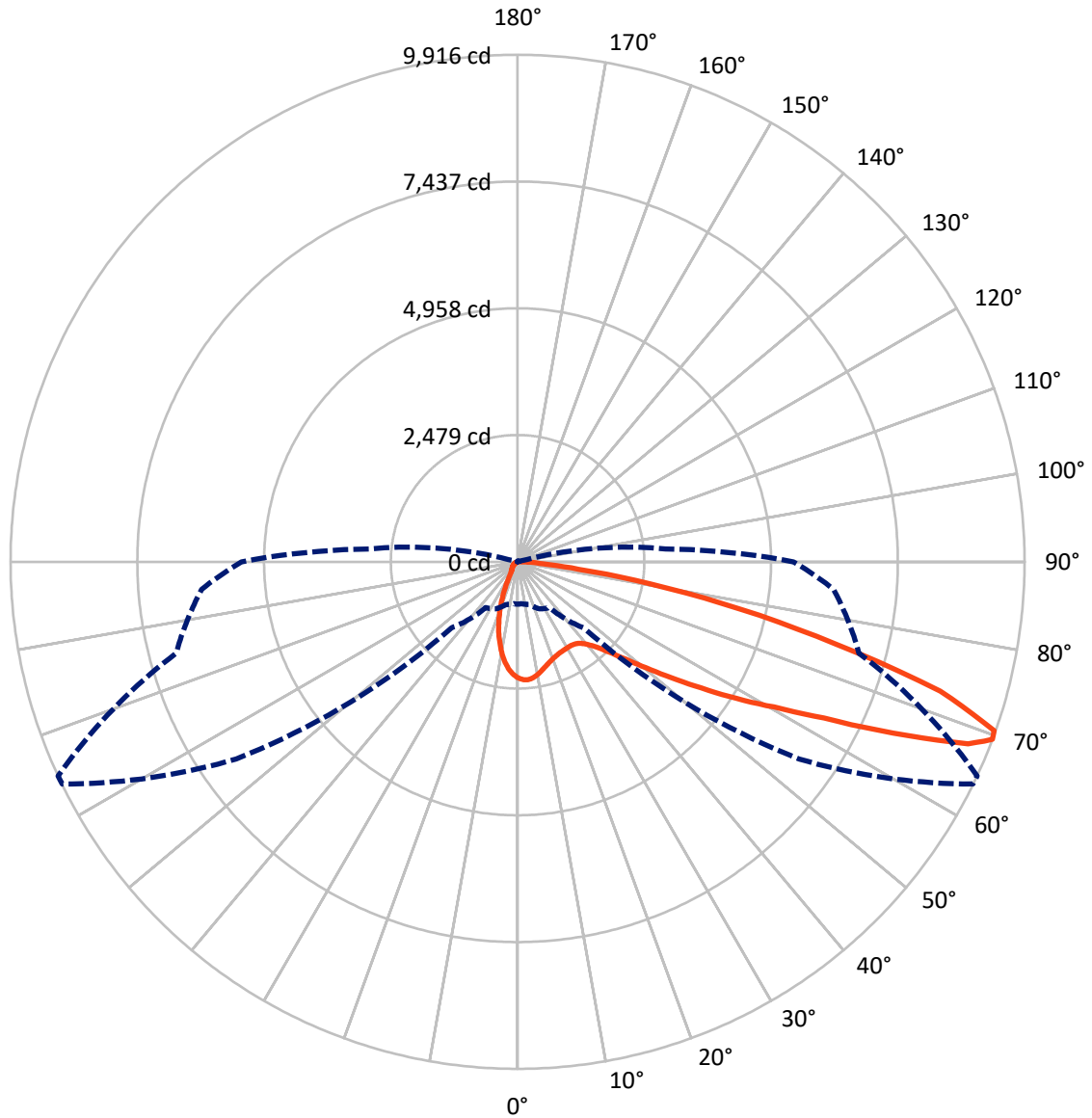
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 22.7 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral      - - - Horizontal Cone Through 69-Deg Vertical

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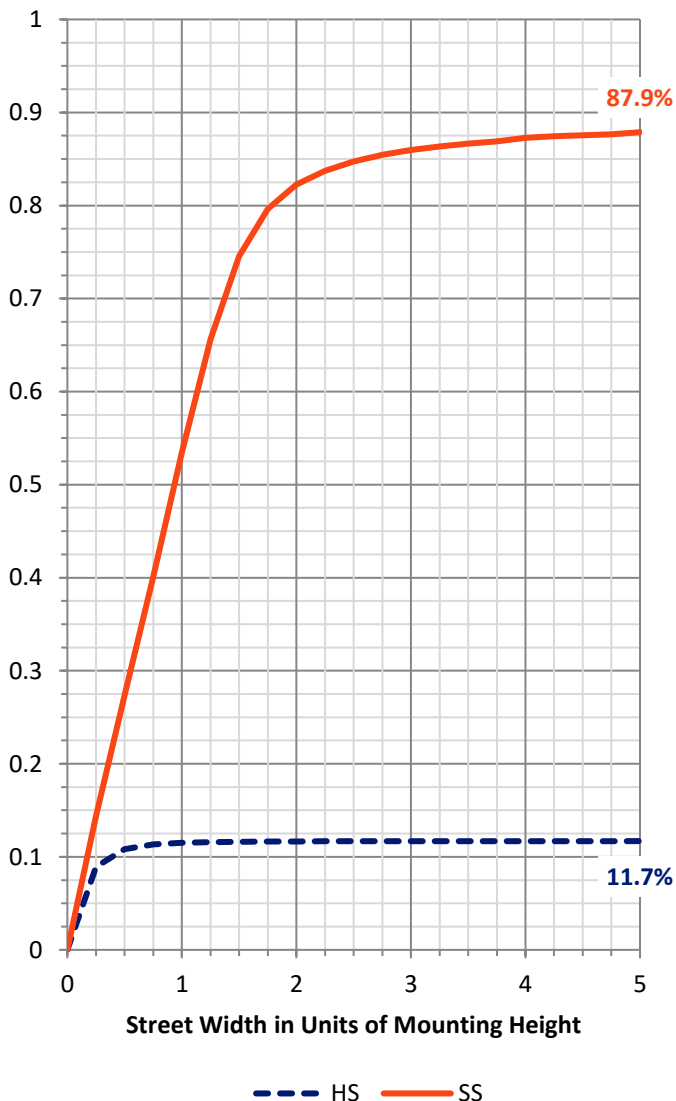
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1060.4	0.0	1060.4
	% Fixture	11.8	0.0	11.8
<b>Street Side</b>	Lumens	7935.6	0.0	7935.6
	% Fixture	88.2	0.0	88.2
<b>Total</b>	Lumens	8996.0	0.0	8996.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	190.1	2.1
10°-20°	416.1	4.6
20°-30°	576.4	6.4
30°-40°	803.6	8.9
40°-50°	1249.1	13.9
50°-60°	2005.3	22.3
60°-70°	2268.3	25.2
70°-80°	1332.2	14.8
80°-90°	155.0	1.7
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°	8996.0	100.0
0°-180°	8996.0	100.0

**Coefficient of Utilization**

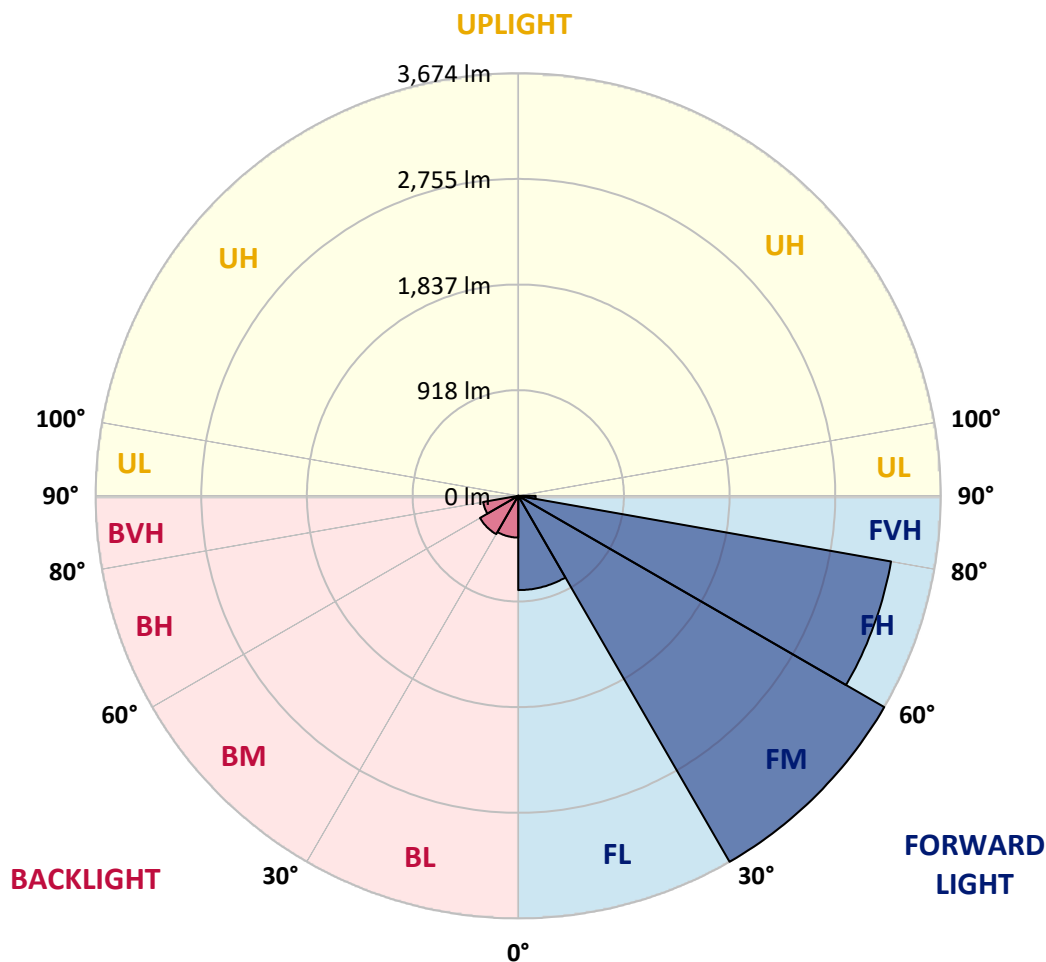


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	819.7	9.1			
FM (30°-60°)	3673.7	40.8			
FH (60°-80°)	3290.6	36.6			G2/5000
FVH (80°-90°)	151.5	1.7			G2/225
BL (0°-30°)	362.8	4.0	B1/500		
BM (30°-60°)	384.3	4.3	B1/1000		
BH (60°-80°)	309.8	3.4	B1/500		G1/500
BVH (80°-90°)	3.5	0.0			G0/10
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°	64°	65°	75°	85°
0°	2273.3	2273.3	2273.3	2273.3	2273.3	2273.3	2273.3	2273.3	2273.3	2273.3	2273.3
2.5°	2293.5	2287.8	2292.3	2302.2	2307.2	2307.2	2311.0	2306.4	2307.9	2296.9	2280.9
5°	2150.0	2141.2	2153.8	2181.6	2215.8	2245.1	2288.5	2311.4	2313.7	2314.0	2295.4
7.5°	1995.4	1987.4	2006.1	2038.8	2083.0	2137.4	2213.2	2279.4	2283.2	2319.0	2305.3
10°	1869.8	1864.1	1885.8	1920.8	1972.6	2033.5	2126.4	2218.5	2229.5	2308.7	2303.8
12.5°	1770.1	1765.5	1786.1	1826.4	1879.3	1946.7	2043.8	2150.7	2165.6	2285.5	2296.1
15°	1697.4	1696.6	1713.7	1752.6	1811.2	1874.0	1973.3	2087.9	2105.1	2260.4	2295.0
17.5°	1659.3	1660.4	1673.0	1706.1	1756.4	1818.8	1914.0	2035.0	2053.7	2237.9	2300.7
20°	1655.5	1656.6	1663.5	1682.1	1722.9	1778.1	1865.6	1990.5	2009.9	2221.2	2309.8
22.5°	1689.0	1688.2	1690.1	1688.2	1711.1	1752.9	1833.6	1956.2	1978.7	2210.1	2317.1
25°	1753.3	1752.2	1751.4	1737.3	1722.1	1744.6	1820.3	1936.8	1958.1	2202.1	2321.3
27.5°	1842.8	1842.0	1840.9	1817.7	1772.0	1757.9	1821.8	1929.6	1947.5	2195.7	2320.5
30°	1960.4	1965.7	1964.2	1931.9	1860.7	1798.6	1837.8	1925.8	1941.4	2183.1	2312.5
32.5°	2098.6	2109.2	2117.6	2083.0	1993.9	1879.3	1874.8	1929.9	1941.4	2173.6	2298.0
35°	2242.1	2255.8	2286.6	2274.4	2157.2	2000.8	1938.3	1955.1	1964.6	2178.9	2291.2
37.5°	2383.3	2399.7	2466.7	2502.1	2371.1	2161.4	2037.3	2017.1	2022.1	2211.3	2298.8
40°	2547.4	2572.1	2673.8	2730.9	2626.6	2376.5	2185.4	2123.7	2125.6	2282.4	2334.2
42.5°	2762.8	2788.3	2898.3	2987.8	2914.3	2648.3	2386.4	2286.6	2284.7	2415.7	2417.6
45°	3025.5	3052.1	3166.0	3265.3	3232.2	2970.3	2643.7	2524.5	2522.3	2625.8	2575.5
47.5°	3323.2	3349.4	3451.1	3553.5	3589.2	3346.4	2971.4	2849.2	2843.9	2917.8	2819.6
50°	3578.6	3595.7	3689.4	3827.2	3988.6	3808.5	3379.1	3261.5	3255.8	3305.7	3177.8
52.5°	3671.5	3681.4	3776.5	3969.5	4372.3	4434.3	3914.7	3763.2	3759.0	3780.7	3654.7
55°	3483.4	3501.3	3618.2	3904.4	4580.1	5141.6	4590.8	4384.4	4352.9	4306.0	4153.4
57.5°	2971.1	2999.6	3125.2	3505.9	4483.0	5702.7	5584.3	5087.1	5040.7	4754.5	4558.8
60°	2226.1	2261.1	2365.4	2776.2	3965.0	5902.5	6669.9	5870.2	5765.5	5111.5	4931.5
62.5°	1527.6	1545.1	1615.9	1883.5	2920.0	5575.2	7578.2	6918.9	6727.8	5499.8	5334.6
65°	1166.7	1172.8	1201.7	1293.9	1738.9	4528.7	7939.4	8302.6	8071.5	5964.2	5752.9
67.5°	940.2	935.3	975.3	1107.0	1164.4	2762.8	7518.0	9611.7	9503.6	6585.0	6173.9
69°	829.1	822.2	863.0	1016.0	1093.6	1826.4	6720.9	9909.0	9915.8	6912.8	6202.9
70°	746.1	750.7	791.0	961.9	1069.7	1433.6	5959.6	9833.2	9887.3	7035.4	6029.3
72.5°	498.3	510.5	591.5	798.6	1028.5	1084.9	3598.4	8438.1	8645.9	6759.4	5172.8
75°	280.9	290.1	386.4	602.2	969.2	1033.1	1900.6	6216.6	6417.6	5652.4	3988.9
77.5°	137.8	142.7	218.5	388.7	810.4	984.4	1078.0	4222.7	4452.2	3689.4	2256.2
80°	58.2	60.9	109.2	239.8	579.4	939.5	800.5	2598.8	2627.3	1445.4	601.1
82.5°	22.5	23.2	46.1	149.6	368.1	732.4	669.6	1232.2	1202.5	272.2	137.0
85°	2.7	3.0	16.7	89.8	204.8	376.9	544.0	531.0	491.4	54.1	70.4
87.5°	0.0	0.0	1.1	27.4	60.9	176.6	282.8	220.4	198.7	17.5	36.5
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°	2273.3	2273.3	2273.3	2273.3	2273.3	2273.3	2273.3	2273.3	2273.3	2273.3	2273.3
2.5°	2267.6	2263.8	2243.2	2213.5	2185.4	2150.4	2116.9	2096.7	2080.7	2070.0	2082.6
5°	2273.7	2256.9	2194.5	2114.6	2036.2	1947.8	1865.6	1796.0	1768.5	1738.1	1751.8
7.5°	2271.8	2240.2	2127.9	1985.5	1841.6	1692.8	1552.0	1443.5	1387.1	1331.9	1346.0
10°	2262.3	2209.0	2038.8	1827.9	1612.5	1398.5	1198.7	1046.8	961.9	885.0	896.1
12.5°	2241.3	2167.1	1933.8	1647.5	1359.3	1077.3	843.2	648.6	544.3	498.3	504.0
15°	2228.8	2126.4	1822.6	1464.8	1089.1	750.3	515.4	383.3	335.7	320.5	322.4
17.5°	2222.7	2087.2	1707.6	1255.8	812.7	477.7	333.1	293.9	283.6	280.9	281.7
20°	2216.6	2047.6	1589.3	1049.1	560.0	321.3	273.7	262.3	258.5	255.0	255.8
22.5°	2206.3	2009.5	1462.1	839.7	377.6	260.8	246.7	235.6	227.6	223.4	224.2
25°	2193.7	1969.5	1332.3	625.4	275.6	232.6	219.3	203.7	194.1	186.5	186.9
27.5°	2173.6	1920.4	1198.3	455.3	231.4	208.2	190.3	173.2	157.2	148.5	148.5
30°	2145.4	1864.9	1049.5	325.8	207.5	184.2	162.5	141.2	124.1	116.1	115.3
32.5°	2114.2	1807.0	899.1	247.0	188.4	161.8	137.0	114.6	99.4	92.9	92.5
35°	2087.5	1744.6	749.1	207.1	169.4	140.1	113.1	94.0	81.8	76.5	76.1
37.5°	2070.4	1682.1	603.0	185.0	152.3	119.9	94.8	77.7	68.9	64.7	64.3
40°	2067.7	1635.7	469.4	168.3	136.3	102.0	79.2	65.9	57.9	53.3	52.9
42.5°	2102.4	1609.1	360.1	154.2	119.9	86.4	67.4	56.3	48.0	43.4	43.0
45°	2193.4	1617.4	277.1	141.6	103.5	73.1	57.1	46.8	39.2	35.8	35.0
47.5°	2359.3	1675.3	220.4	129.0	87.9	62.0	48.7	38.8	32.4	28.9	28.5
50°	2654.7	1811.2	184.2	115.3	73.5	52.9	40.4	31.6	26.3	23.2	22.8
52.5°	3046.8	2053.3	164.4	102.0	60.9	44.9	33.1	25.1	20.6	18.3	17.9
55°	3479.2	2346.4	151.5	87.6	49.9	37.3	26.3	19.8	16.0	14.1	13.3
57.5°	3901.4	2600.3	139.3	73.5	41.5	30.5	20.9	15.6	12.6	10.7	10.3
60°	4289.3	2833.6	125.2	59.0	33.9	24.0	16.4	12.2	9.9	8.0	8.0
62.5°	4704.6	3014.1	105.8	46.1	27.8	18.3	13.3	11.0	8.0	6.9	6.5
65°	5144.6	3148.1	83.0	35.8	21.7	13.7	11.0	11.4	6.5	4.9	4.6
67.5°	5469.7	3121.4	61.3	28.2	16.7	10.7	10.7	12.2	5.7	3.8	3.4
69°	5398.1	2904.8	51.4	24.4	14.5	9.1	9.9	12.2	5.3	3.4	3.0
70°	5190.7	2665.0	45.3	21.7	12.9	8.4	9.5	11.8	4.9	3.4	3.0
72.5°	4322.8	2007.2	35.4	16.4	10.3	6.9	8.0	10.3	4.9	3.4	2.7
75°	3251.6	1284.7	27.0	11.8	7.6	5.3	6.1	7.6	4.9	3.0	2.7
77.5°	1769.3	463.3	19.4	8.0	5.3	4.2	4.2	5.7	4.6	2.3	1.5
80°	454.9	116.5	12.2	5.3	4.2	3.0	2.7	3.8	2.7	0.4	0.0
82.5°	112.3	26.3	6.5	3.8	3.0	1.1	1.1	1.9	1.1	0.0	0.0
85°	61.7	12.9	4.2	2.7	1.5	0.0	0.0	0.4	0.0	0.0	0.0
87.5°	31.6	3.8	1.1	0.8	0.4	0.0	0.0	0.0	0.0	0.0	0.0
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)