

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: P386608

Luminaire Tested: GAW-SA2B-735-U-SL2-HSS

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-2019  
Report Number: P386608  
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-735-U-SL2-HSS  
Description: GALLEON WALL LUMINAIRE  
(2) 70 CRI, 3500K, 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: 9279.3 lumens  
Efficiency: N/A  
Efficacy: 107.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B1 - U0 - G2

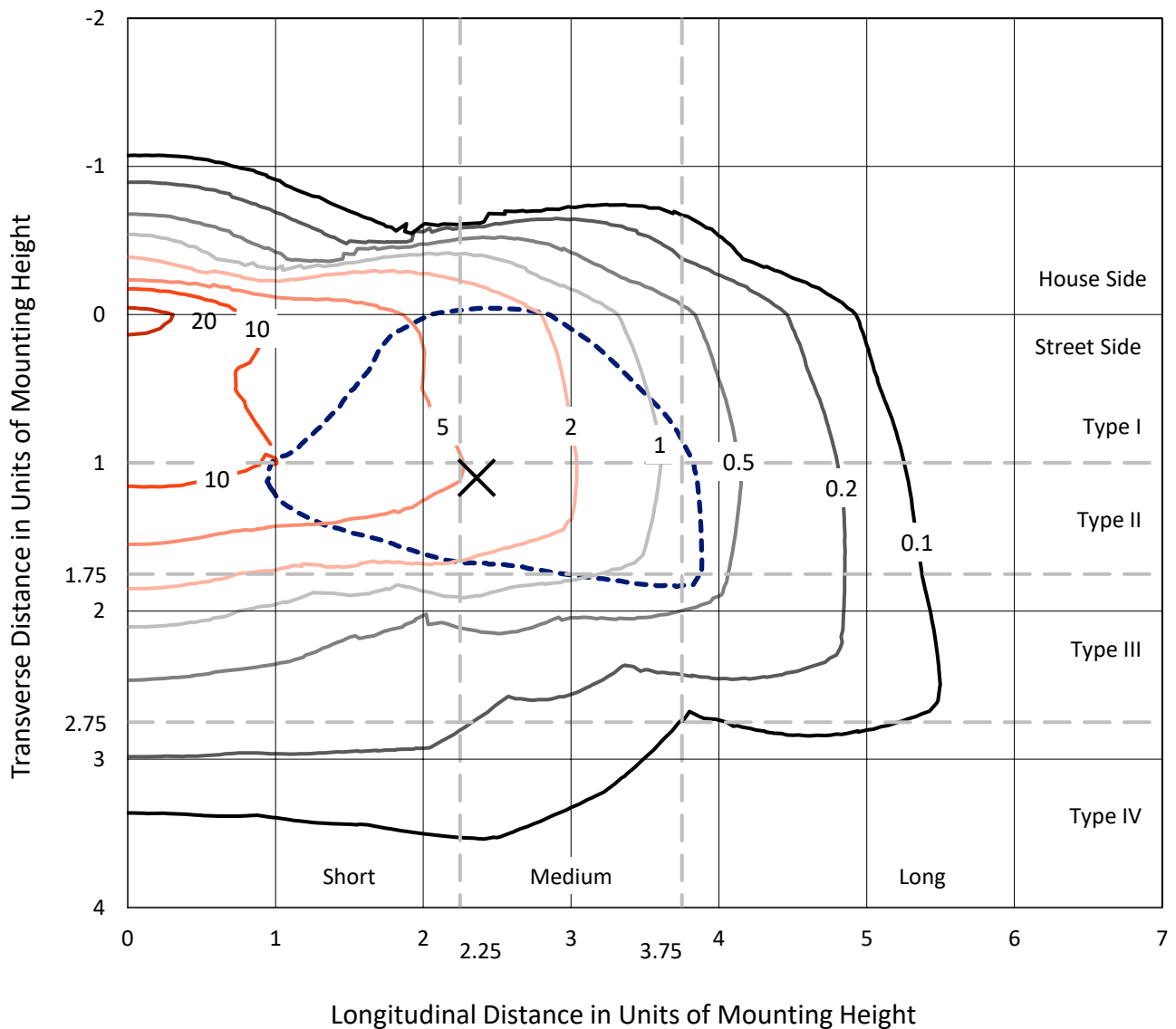
Input Watts (W): 86  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

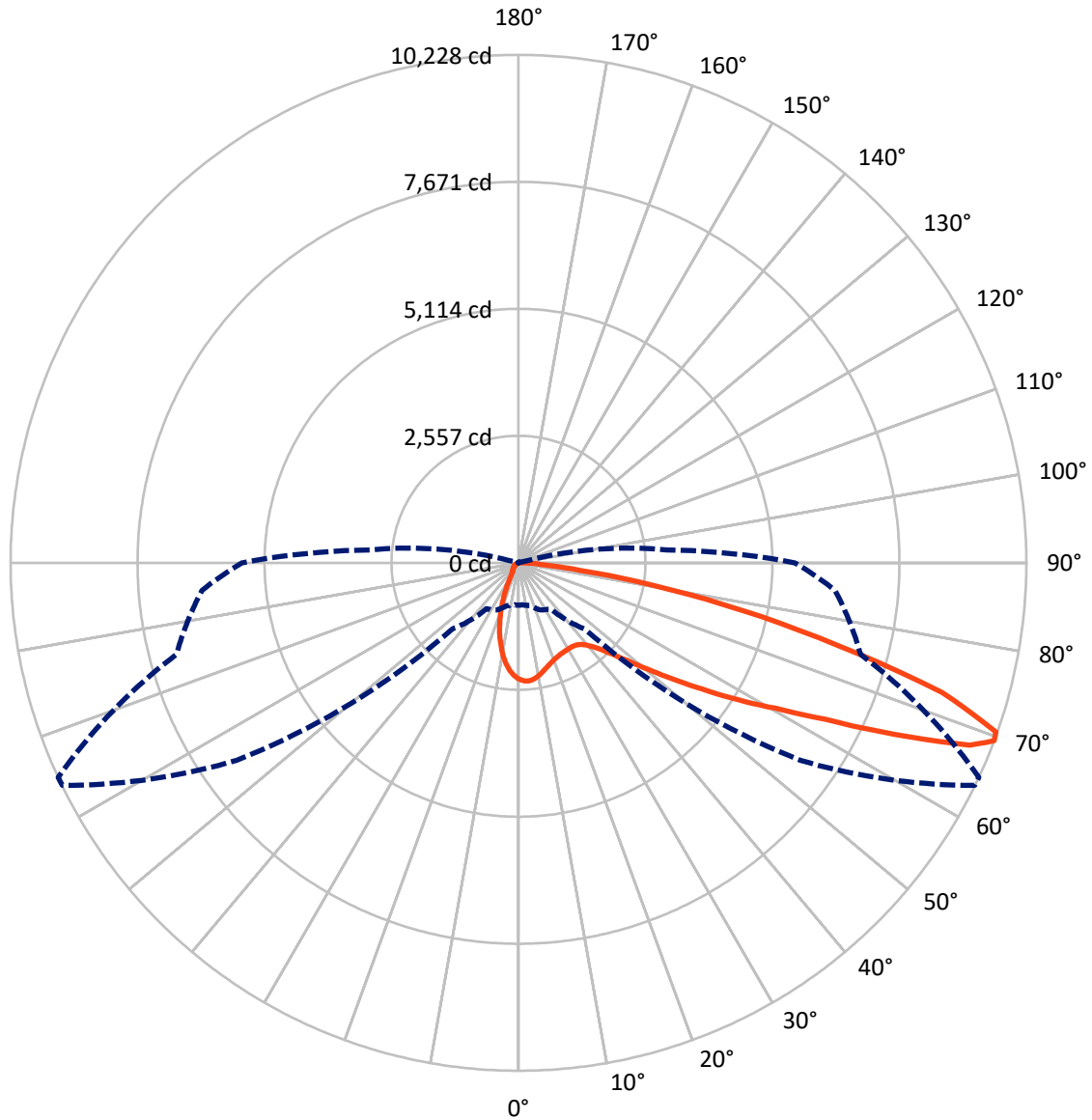
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 23.4 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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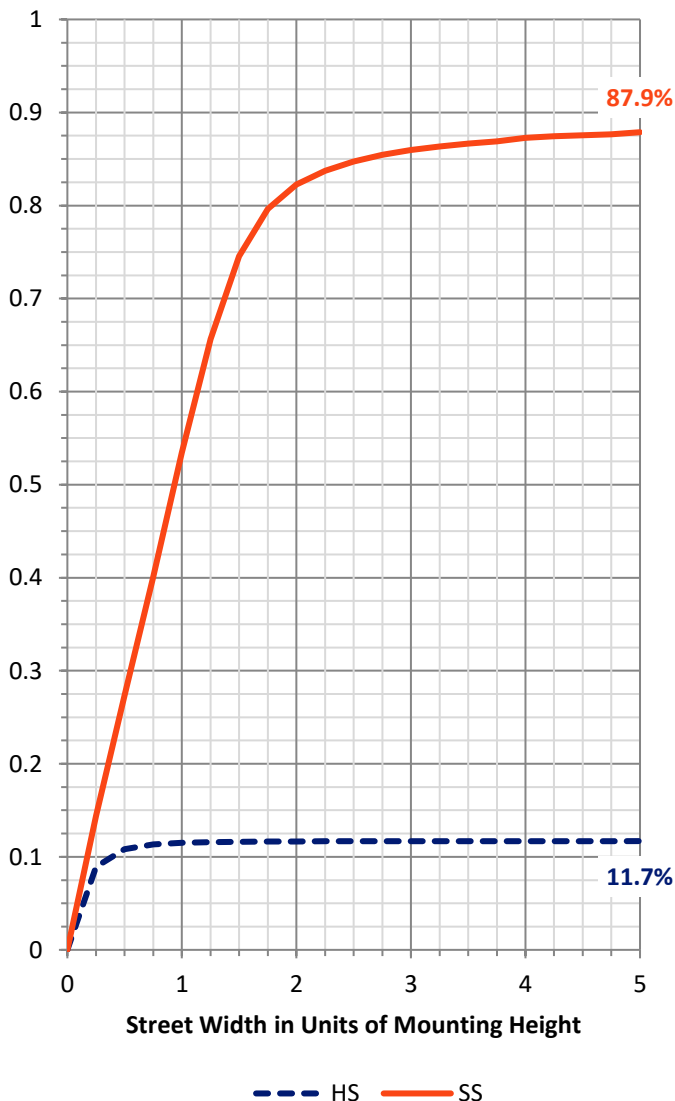
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1093.8	0.0	1093.8
	% Fixture	11.8	0.0	11.8
<b>Street Side</b>	Lumens	8185.5	0.0	8185.5
	% Fixture	88.2	0.0	88.2
<b>Total</b>	Lumens	9279.3	0.0	9279.3
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	196.1	2.1
10°-20°	429.2	4.6
20°-30°	594.5	6.4
30°-40°	828.9	8.9
40°-50°	1288.4	13.9
50°-60°	2068.4	22.3
60°-70°	2339.7	25.2
70°-80°	1374.1	14.8
80°-90°	159.8	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°	9279.3	100.0
0°-180°	9279.3	100.0

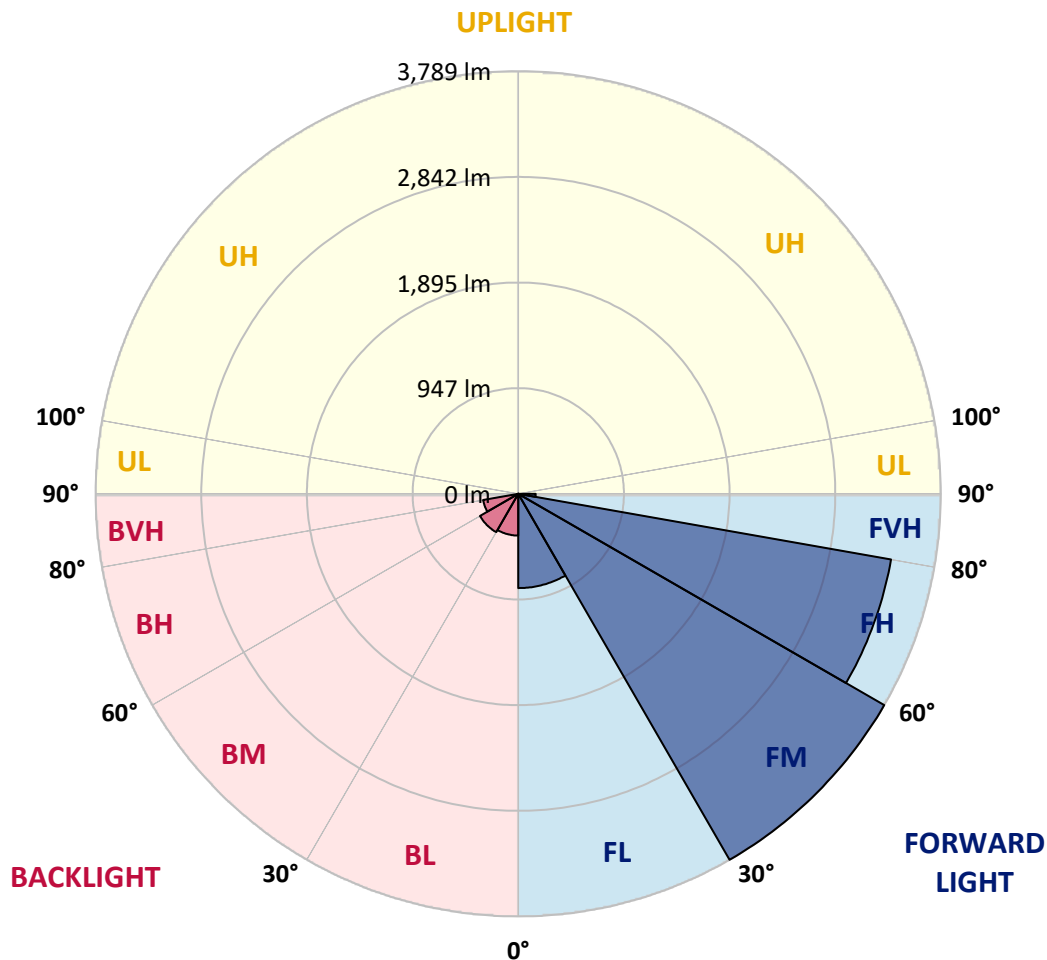


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	845.6	9.1			
FM (30°-60°)	3789.4	40.8			
FH (60°-80°)	3394.3	36.6			G2/5000
FVH (80°-90°)	156.3	1.7			G2/225
BL (0°-30°)	374.3	4.0	B1/500		
BM (30°-60°)	396.4	4.3	B1/1000		
BH (60°-80°)	319.6	3.4	B1/500		G1/500
BVH (80°-90°)	3.6	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°	2344.9	2344.9	2344.9	2344.9	2344.9	2344.9	2344.9	2344.9	2344.9	2344.9	2344.9
2.5°	2365.7	2359.9	2364.5	2374.8	2379.9	2379.9	2383.8	2379.1	2380.6	2369.2	2352.7
5°	2217.7	2208.6	2221.6	2250.3	2285.6	2315.9	2360.6	2384.2	2386.5	2386.9	2367.6
7.5°	2058.3	2050.0	2069.3	2103.0	2148.6	2204.8	2282.8	2351.2	2355.2	2392.0	2377.9
10°	1928.7	1922.8	1945.2	1981.3	2034.7	2097.6	2193.3	2288.4	2299.7	2381.5	2376.3
12.5°	1825.8	1821.1	1842.3	1884.0	1938.5	2008.0	2108.1	2218.5	2233.8	2357.5	2368.5
15°	1750.8	1750.0	1767.8	1807.8	1868.3	1933.0	2035.5	2153.7	2171.3	2331.6	2367.3
17.5°	1711.6	1712.7	1725.7	1759.9	1811.7	1876.1	1974.2	2099.1	2118.3	2308.4	2373.2
20°	1707.6	1708.9	1715.9	1735.2	1777.1	1834.1	1924.3	2053.1	2073.1	2291.1	2382.6
22.5°	1742.2	1741.4	1743.3	1741.4	1764.9	1808.1	1891.4	2017.8	2041.0	2279.7	2390.1
25°	1808.5	1807.4	1806.5	1792.1	1776.4	1799.5	1877.7	1997.8	2019.8	2271.5	2394.4
27.5°	1900.9	1900.0	1898.9	1874.9	1827.8	1813.2	1879.3	1990.4	2008.8	2264.8	2393.6
30°	2022.1	2027.7	2026.1	1992.7	1919.3	1855.3	1895.7	1986.4	2002.5	2251.8	2385.3
32.5°	2164.6	2175.6	2184.3	2148.6	2056.7	1938.5	1933.8	1990.8	2002.5	2242.1	2370.5
35°	2312.7	2326.9	2358.6	2346.0	2225.1	2063.8	1999.4	2016.7	2026.5	2247.5	2363.3
37.5°	2458.4	2475.3	2544.3	2580.9	2445.8	2229.5	2101.4	2080.7	2085.7	2280.9	2371.2
40°	2627.6	2653.1	2758.0	2816.9	2709.3	2451.3	2254.2	2190.6	2192.5	2354.3	2407.8
42.5°	2849.8	2876.1	2989.6	3081.9	3006.2	2731.7	2461.5	2358.6	2356.7	2491.7	2493.7
45°	3120.8	3148.3	3265.7	3368.1	3334.0	3063.8	2727.0	2604.1	2601.7	2708.5	2656.7
47.5°	3427.8	3454.9	3559.7	3665.4	3702.3	3451.8	3065.1	2939.0	2933.4	3009.6	2908.4
50°	3691.3	3709.0	3805.6	3947.7	4114.2	3928.5	3485.5	3364.3	3358.3	3409.8	3277.8
52.5°	3787.1	3797.3	3895.5	4094.5	4509.9	4574.0	4038.0	3881.8	3877.4	3899.8	3769.8
55°	3593.2	3611.6	3732.1	4027.4	4724.4	5303.5	4735.4	4522.5	4489.9	4441.6	4284.2
57.5°	3064.6	3094.1	3223.6	3616.3	4624.3	5882.3	5760.2	5247.4	5199.5	4904.2	4702.4
60°	2296.3	2332.3	2439.9	2863.6	4089.8	6088.4	6880.0	6055.1	5947.1	5272.5	5086.8
62.5°	1575.7	1593.8	1666.8	1942.9	3012.0	5750.8	7816.9	7136.8	6939.7	5673.0	5502.6
65°	1203.5	1209.8	1239.6	1334.6	1793.6	4671.3	8189.4	8564.1	8325.8	6152.0	5934.2
67.5°	969.8	964.8	1006.0	1141.8	1201.1	2849.8	7754.8	9914.4	9802.9	6792.5	6368.3
69°	855.2	848.1	890.2	1048.0	1128.1	1884.0	6932.6	10221.1	10228.1	7130.6	6398.2
70°	769.6	774.3	816.0	992.2	1103.3	1478.7	6147.3	10142.9	10198.7	7256.9	6219.2
72.5°	513.9	526.5	610.1	823.8	1061.0	1119.0	3711.7	8703.9	8918.2	6972.3	5335.8
75°	289.8	299.2	398.6	621.1	999.7	1065.6	1960.5	6412.4	6619.7	5830.4	4114.5
77.5°	142.1	147.2	225.4	400.9	836.0	1015.4	1112.0	4355.7	4592.4	3805.6	2327.3
80°	60.1	62.8	112.7	247.3	597.6	969.1	825.7	2680.7	2710.1	1490.9	620.0
82.5°	23.2	24.0	47.5	154.3	379.7	755.5	690.6	1271.0	1240.4	280.8	141.4
85°	2.7	3.1	17.3	92.6	211.3	388.7	561.1	547.8	506.9	55.8	72.6
87.5°	0.0	0.0	1.2	28.3	62.8	182.1	291.8	227.3	205.0	18.0	37.7
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°	2344.9	2344.9	2344.9	2344.9	2344.9	2344.9	2344.9	2344.9	2344.9	2344.9	2344.9
2.5°	2339.0	2335.1	2313.9	2283.3	2254.2	2218.1	2183.5	2162.7	2146.2	2135.2	2148.2
5°	2345.3	2328.0	2263.7	2181.2	2100.3	2009.2	1924.3	1852.5	1824.2	1792.8	1807.0
7.5°	2343.3	2310.7	2194.9	2048.1	1899.6	1746.1	1600.8	1488.9	1430.8	1373.9	1388.4
10°	2333.5	2278.5	2103.0	1885.5	1663.3	1442.6	1236.4	1079.8	992.2	912.9	924.3
12.5°	2311.9	2235.4	1994.6	1699.4	1402.1	1111.2	869.7	669.0	561.5	513.9	519.9
15°	2299.0	2193.3	1880.0	1510.9	1123.3	773.9	531.6	395.4	346.4	330.6	332.5
17.5°	2292.7	2152.9	1761.5	1295.3	838.3	492.8	343.5	303.1	292.5	289.8	290.6
20°	2286.4	2112.0	1639.3	1082.2	577.6	331.4	282.3	270.5	266.6	263.0	263.9
22.5°	2275.8	2072.8	1508.2	866.2	389.5	268.9	254.5	243.0	234.8	230.5	231.3
25°	2262.8	2031.5	1374.2	645.1	284.3	239.9	226.2	210.0	200.3	192.4	192.8
27.5°	2242.1	1980.9	1236.1	469.6	238.7	214.7	196.3	178.7	162.1	153.1	153.1
30°	2212.9	1923.6	1082.6	336.1	214.0	190.0	167.7	145.7	128.0	119.8	118.9
32.5°	2180.8	1863.9	927.5	254.9	194.4	166.8	141.4	118.2	102.5	95.8	95.4
35°	2153.3	1799.5	772.7	213.6	174.7	144.5	116.6	96.9	84.5	78.9	78.5
37.5°	2135.6	1735.2	622.0	190.8	157.1	123.7	97.8	80.1	71.1	66.8	66.3
40°	2132.9	1687.2	484.2	173.5	140.5	105.2	81.6	67.9	59.7	55.0	54.6
42.5°	2168.6	1659.7	371.4	159.0	123.7	89.1	69.5	58.1	49.5	44.7	44.3
45°	2262.4	1668.4	285.9	146.1	106.8	75.4	58.9	48.3	40.5	36.9	36.2
47.5°	2433.7	1728.0	227.3	133.1	90.7	64.0	50.3	40.0	33.3	29.9	29.4
50°	2738.3	1868.3	190.0	118.9	75.8	54.6	41.6	32.6	27.1	24.0	23.6
52.5°	3142.7	2118.0	169.7	105.2	62.8	46.3	34.2	25.9	21.2	18.9	18.4
55°	3588.9	2420.3	156.3	90.3	51.5	38.5	27.1	20.4	16.5	14.6	13.7
57.5°	4024.3	2682.2	143.7	75.8	42.8	31.4	21.6	16.1	13.0	11.0	10.6
60°	4424.4	2922.9	129.2	60.9	34.9	24.7	16.9	12.6	10.2	8.3	8.3
62.5°	4852.7	3109.0	109.2	47.5	28.7	18.9	13.7	11.4	8.3	7.0	6.7
65°	5306.6	3247.2	85.6	36.9	22.4	14.1	11.4	11.7	6.7	5.1	4.7
67.5°	5642.0	3219.8	63.2	29.0	17.3	11.0	11.0	12.6	5.9	3.9	3.6
69°	5568.2	2996.3	53.0	25.2	14.9	9.4	10.2	12.6	5.5	3.6	3.1
70°	5354.2	2748.9	46.7	22.4	13.3	8.6	9.8	12.2	5.1	3.6	3.1
72.5°	4458.9	2070.4	36.5	16.9	10.6	7.0	8.3	10.6	5.1	3.6	2.7
75°	3354.0	1325.2	27.9	12.2	7.9	5.5	6.3	7.9	5.1	3.1	2.7
77.5°	1825.1	477.9	20.0	8.3	5.5	4.3	4.3	5.9	4.7	2.3	1.6
80°	469.2	120.1	12.6	5.5	4.3	3.1	2.7	3.9	2.7	0.4	0.0
82.5°	115.8	27.1	6.7	3.9	3.1	1.2	1.2	2.0	1.2	0.0	0.0
85°	63.6	13.3	4.3	2.7	1.6	0.0	0.0	0.4	0.0	0.0	0.0
87.5°	32.6	3.9	1.2	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)