

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: P386555

Luminaire Tested: GAW-SA2B-727-U-SL3

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-2019  
Report Number: P386555  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-22)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: STREETWORKS  
Catalog Number: GAW-SA2B-727-U-SL3  
Description: GALLEON WALL LUMINAIRE  
(2) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
SPILL LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9976 lumens  
Efficiency: N/A  
Efficacy: 116.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B1 - U0 - G3

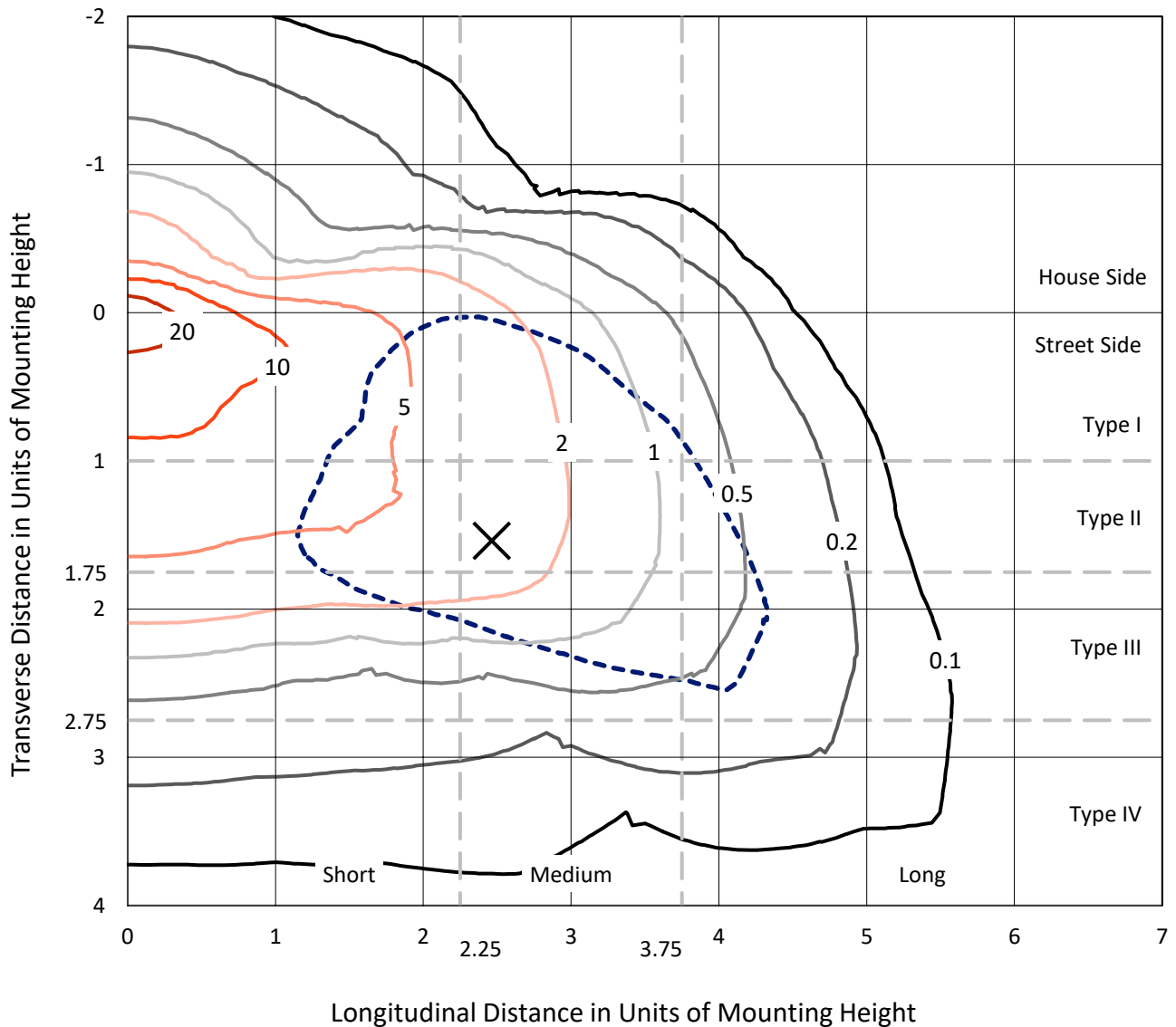
Input Watts (W): 86  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

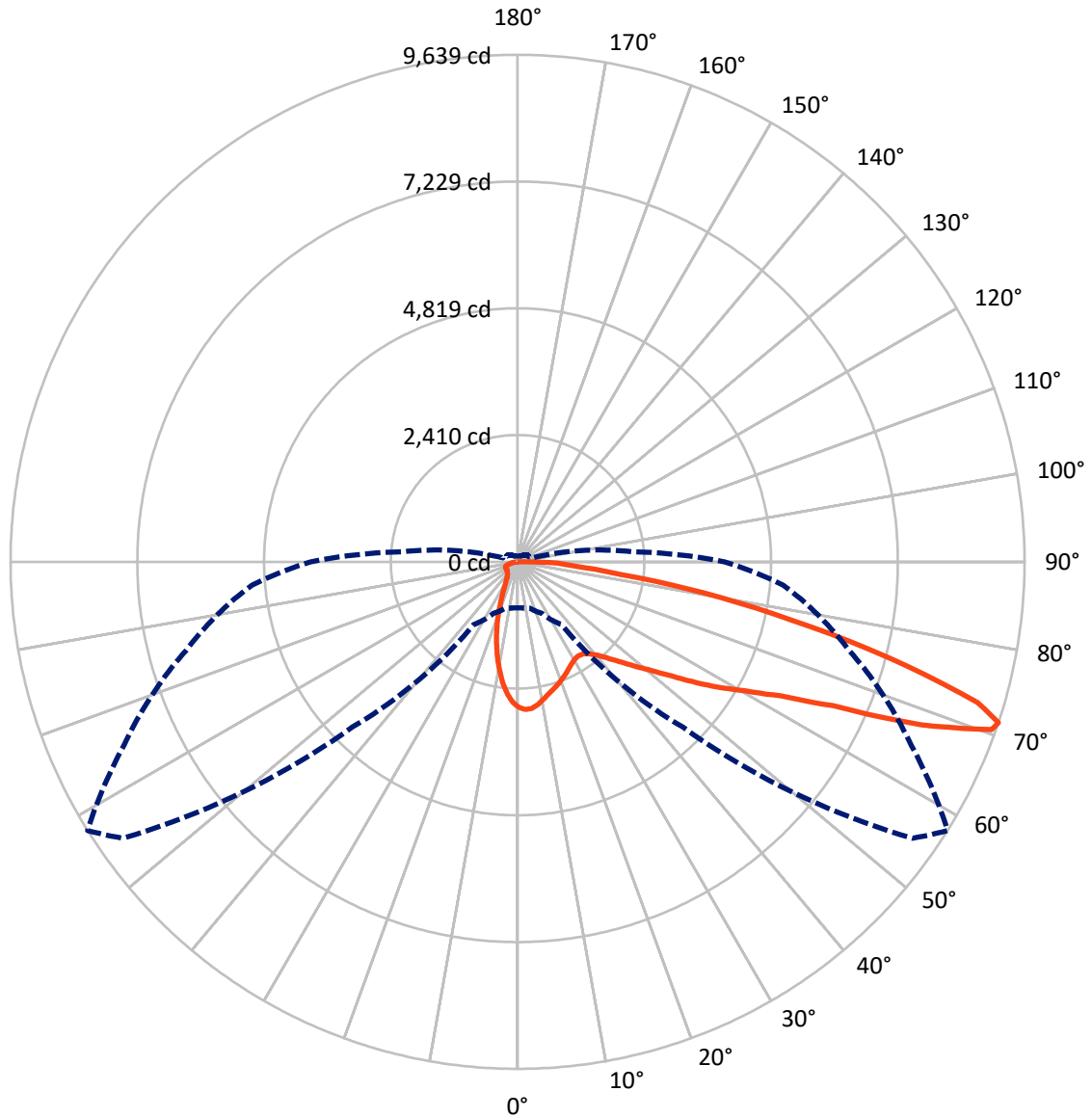
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 27.6 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral      - - - Horizontal Cone Through 71-Deg Vertical

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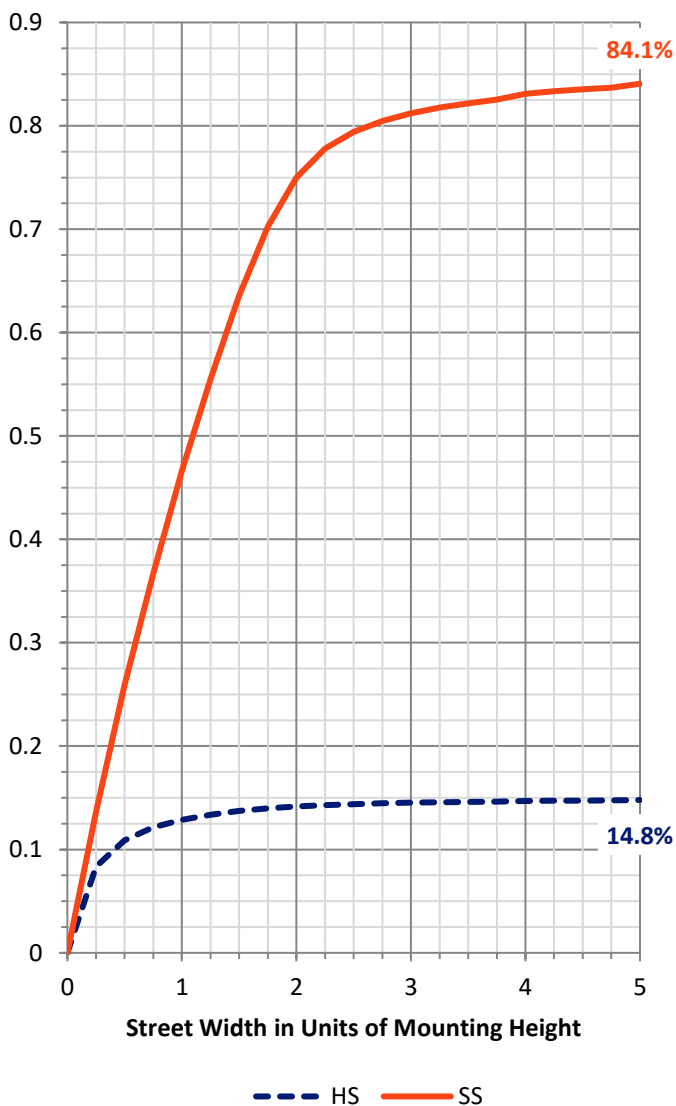
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1491.5	0.0	1491.5
	% Fixture	15.0	0.0	15.0
<b>Street Side</b>	Lumens	8484.5	0.0	8484.5
	% Fixture	85.0	0.0	85.0
<b>Total</b>	Lumens	9976.0	0.0	9976.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	238.5	2.4
10°-20°	530.2	5.3
20°-30°	673.9	6.8
30°-40°	858.4	8.6
40°-50°	1217.2	12.2
50°-60°	1883.7	18.9
60°-70°	2564.4	25.7
70°-80°	1710.7	17.1
80°-90°	299.1	3.0
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°	9976.0	100.0
0°-180°	9976.0	100.0

**Coefficient of Utilization**



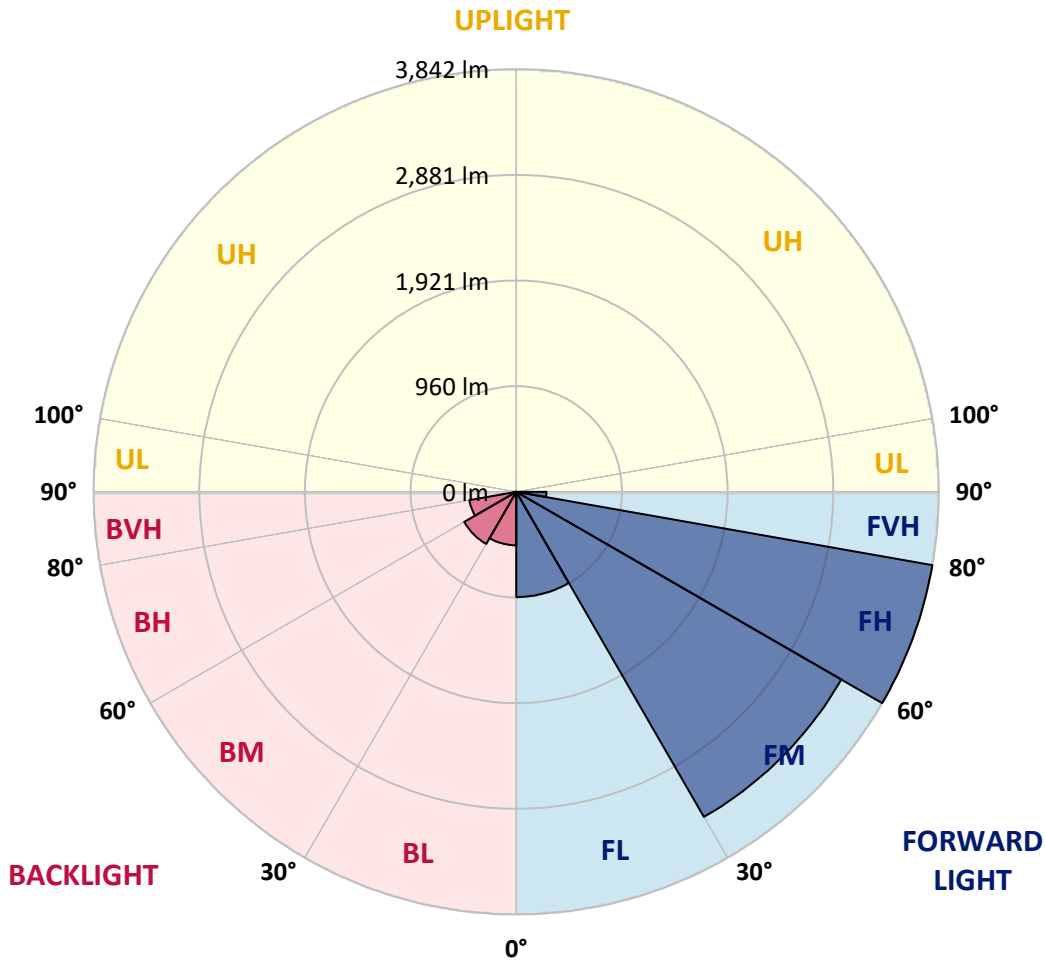
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	956.4	9.6			
FM (30°-60°)	3412.3	34.2			
FH (60°-80°)	3841.6	38.5			G2/5000
FVH (80°-90°)	274.2	2.7			G3/500
BL (0°-30°)	486.2	4.9	B1/500		
BM (30°-60°)	547.0	5.5	B1/1000		
BH (60°-80°)	433.5	4.3	B1/500		G1/500
BVH (80°-90°)	24.9	0.2			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 III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	2764.0	2764.0	2764.0	2764.0	2764.0	2764.0	2764.0	2764.0	2764.0	2764.0	2764.0
2.5°	2837.3	2833.5	2834.9	2832.1	2825.5	2818.9	2809.2	2810.9	2797.4	2777.2	2752.2
5°	2783.8	2782.4	2792.9	2798.8	2803.6	2799.8	2797.0	2800.5	2780.7	2752.9	2709.5
7.5°	2671.6	2656.3	2669.5	2689.3	2708.1	2722.3	2741.1	2743.5	2731.0	2701.8	2644.8
10°	2512.1	2497.5	2516.9	2547.9	2585.4	2619.5	2657.3	2664.3	2666.7	2640.3	2571.2
12.5°	2346.7	2335.6	2355.0	2398.4	2460.7	2513.1	2573.6	2584.0	2605.6	2587.8	2503.0
15°	2198.6	2194.5	2218.1	2260.8	2332.4	2412.7	2499.9	2519.0	2555.5	2549.6	2449.9
17.5°	2070.8	2069.7	2087.8	2132.6	2211.8	2313.3	2426.6	2458.9	2513.1	2520.1	2406.1
20°	1975.5	1973.5	1986.0	2019.0	2100.6	2215.7	2347.4	2391.8	2470.0	2494.4	2360.9
22.5°	1924.5	1924.1	1924.5	1940.1	2006.8	2113.8	2270.2	2324.4	2428.0	2473.9	2310.9
25°	1915.8	1914.7	1907.1	1905.3	1943.2	2028.7	2193.8	2253.5	2388.0	2459.6	2263.3
27.5°	1938.4	1939.7	1929.7	1913.3	1921.0	1972.8	2127.4	2191.3	2356.1	2456.8	2230.3
30°	1985.3	1984.6	1975.9	1958.9	1943.9	1951.9	2080.1	2144.1	2334.5	2469.0	2207.7
32.5°	2037.0	2040.9	2039.1	2029.8	2007.5	1975.5	2065.9	2128.4	2328.3	2498.2	2197.9
35°	2099.3	2103.4	2115.9	2123.2	2097.2	2045.7	2096.5	2150.7	2346.3	2553.1	2213.6
37.5°	2158.3	2169.1	2204.2	2235.1	2212.9	2155.5	2177.8	2216.4	2402.3	2639.6	2255.6
40°	2226.4	2235.8	2293.2	2358.8	2355.4	2295.9	2308.8	2334.5	2501.0	2763.7	2331.7
42.5°	2293.5	2312.3	2395.3	2488.5	2515.2	2462.7	2483.2	2496.8	2640.0	2928.0	2464.5
45°	2382.8	2403.0	2518.3	2630.6	2693.1	2663.6	2696.3	2701.5	2814.8	3151.8	2657.3
47.5°	2518.0	2540.9	2675.4	2793.2	2888.8	2891.9	2945.8	2943.7	3033.0	3407.9	2900.2
50°	2728.6	2761.6	2871.7	2981.9	3098.0	3162.6	3234.5	3224.5	3294.7	3680.7	3180.0
52.5°	3004.5	3019.8	3101.4	3182.8	3327.0	3471.9	3575.1	3566.1	3591.4	3961.2	3497.6
55°	3290.5	3301.9	3335.7	3380.1	3574.0	3810.3	4028.6	4014.3	3950.0	4252.4	3811.4
57.5°	3547.6	3570.9	3594.2	3612.6	3822.9	4164.1	4492.5	4493.5	4339.2	4566.5	4135.6
60°	3587.6	3608.1	3762.0	3907.3	4248.5	4636.0	4989.1	4978.6	4742.0	4907.4	4497.0
62.5°	3171.3	3217.5	3474.7	3861.1	4658.6	5499.2	5622.6	5609.7	5223.6	5327.5	4917.8
65°	2272.7	2325.1	2635.4	3216.1	4459.8	6450.3	6765.8	6592.8	5880.4	5844.3	5410.6
67.5°	1311.1	1323.6	1458.1	1924.5	3395.8	6500.0	8509.9	8267.7	6900.3	6430.5	5651.7
70°	969.5	969.2	1001.1	1184.3	1837.6	5304.9	9339.4	9556.6	7974.1	6623.4	5310.8
71°	876.7	877.8	913.6	1077.9	1455.3	4440.4	9163.2	9638.6	8257.0	6528.1	5064.1
72.5°	749.9	753.4	803.1	966.7	1224.2	3062.2	8404.3	9146.6	8391.1	6293.2	4678.1
75°	568.9	576.9	645.7	814.9	1119.0	1553.0	6168.1	7303.8	7454.2	5553.1	3476.0
77.5°	405.9	414.9	492.8	685.3	1063.7	1170.4	4130.7	5327.5	5485.6	3558.8	1567.9
80°	256.5	267.2	326.0	545.2	999.4	1111.3	2595.8	3581.0	2991.3	1138.8	398.9
82.5°	150.5	158.8	202.2	356.2	816.3	1070.3	1527.3	1984.9	1164.1	344.0	181.4
85°	87.2	91.0	126.1	226.9	592.8	1010.2	1122.1	1109.6	505.3	168.2	85.8
87.5°	40.7	45.2	74.7	118.5	329.1	732.2	886.8	766.2	314.1	78.9	40.3
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°	2764.0	2764.0	2764.0	2764.0	2764.0	2764.0	2764.0	2764.0	2764.0	2764.0	2764.0
2.5°	2740.0	2734.1	2709.5	2687.6	2664.6	2634.7	2601.7	2597.6	2577.4	2581.2	2574.3
5°	2685.8	2670.9	2611.5	2557.6	2494.0	2437.0	2375.2	2346.7	2305.7	2302.9	2292.5
7.5°	2608.3	2580.5	2488.5	2386.3	2284.1	2186.8	2090.6	2027.3	1962.7	1935.2	1932.8
10°	2521.1	2473.9	2338.3	2187.2	2039.8	1897.7	1760.1	1658.3	1566.5	1523.1	1521.4
12.5°	2438.4	2368.6	2182.7	1976.9	1775.4	1591.2	1402.5	1268.7	1153.7	1115.1	1098.8
15°	2368.2	2269.9	2031.1	1768.1	1523.4	1267.7	1052.9	912.2	805.9	769.0	762.1
17.5°	2300.1	2173.6	1875.8	1557.1	1261.4	980.3	765.2	660.6	604.0	589.0	588.7
20°	2232.3	2074.6	1713.5	1341.4	1008.1	733.2	588.3	541.4	522.3	520.6	517.8
22.5°	2155.5	1969.6	1542.9	1124.9	786.7	576.5	500.1	481.3	478.9	485.1	485.1
25°	2083.6	1865.4	1369.8	912.9	611.9	480.9	446.5	442.7	449.3	460.4	461.5
27.5°	2016.5	1765.0	1201.0	724.5	490.3	423.6	409.4	413.9	425.7	438.5	438.9
30°	1961.3	1670.1	1036.9	570.9	414.2	380.9	378.4	387.5	400.3	410.4	412.8
32.5°	1918.6	1589.1	878.5	459.0	364.5	348.9	351.0	358.6	366.6	372.2	376.0
35°	1898.7	1519.6	732.2	387.1	332.9	324.2	327.0	331.2	334.6	338.8	341.9
37.5°	1902.2	1465.8	601.5	342.3	311.7	307.2	307.2	307.2	307.2	309.3	309.6
40°	1934.5	1434.8	495.2	313.8	297.5	292.6	288.8	285.3	282.5	283.9	283.2
42.5°	2017.2	1432.0	417.3	295.7	286.0	278.0	270.4	265.5	262.0	263.4	264.1
45°	2157.6	1466.8	364.9	282.9	275.2	263.1	253.3	248.1	245.7	250.2	250.9
47.5°	2339.4	1542.6	332.9	273.5	265.1	249.2	238.7	233.9	234.6	241.2	242.9
50°	2573.6	1665.6	317.6	267.6	258.2	237.3	226.6	222.4	224.5	233.9	236.0
52.5°	2830.7	1842.8	319.4	265.8	253.7	228.7	217.2	212.3	215.8	224.5	226.2
55°	3127.5	2055.8	348.2	268.3	247.1	223.1	209.5	201.2	204.0	212.0	213.4
57.5°	3457.3	2299.8	406.2	267.6	238.7	217.9	201.6	189.0	191.1	196.0	197.4
60°	3800.6	2594.4	496.2	269.7	234.9	211.6	190.8	175.1	174.4	178.6	179.3
62.5°	4212.7	2935.3	599.1	271.1	237.3	203.6	176.5	161.2	159.2	160.2	160.9
65°	4637.4	3182.1	560.5	265.5	245.0	197.0	164.0	147.7	143.9	143.2	143.5
67.5°	4650.6	2917.6	393.0	254.4	248.1	193.6	154.6	136.2	130.0	127.5	127.2
70°	4170.7	2370.3	306.1	242.6	235.6	188.0	146.0	126.8	117.5	113.6	113.3
71°	3936.5	2182.0	290.2	236.6	226.2	182.4	142.1	122.7	112.9	108.8	108.1
72.5°	3569.2	1956.1	270.7	227.3	208.2	168.2	134.8	116.8	106.7	101.8	100.8
75°	2561.4	1279.1	232.5	202.6	172.4	134.1	118.2	104.9	96.3	90.4	89.7
77.5°	986.9	509.1	175.8	168.5	132.1	104.9	97.3	90.7	84.4	78.5	78.2
80°	305.1	227.6	128.2	126.8	95.6	78.2	75.8	74.0	71.6	65.3	63.9
82.5°	163.0	130.7	88.3	82.0	62.6	52.1	54.9	55.6	55.9	49.3	48.7
85°	77.8	69.2	49.7	46.6	36.5	29.2	33.7	36.5	36.8	30.2	28.1
87.5°	37.2	36.1	23.3	17.7	13.6	9.7	11.8	14.6	16.0	11.5	10.1
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)