

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: P387005

Luminaire Tested: GAW-SA2D-727-U-SL4

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-2019  
Report Number: P387005  
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-SA2D-727-U-SL4  
Description: GALLEON WALL LUMINAIRE  
(2) 70 CRI, 2700K, 1200mA 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: 12866 lumens  
Efficiency: N/A  
Efficacy: 99.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G3

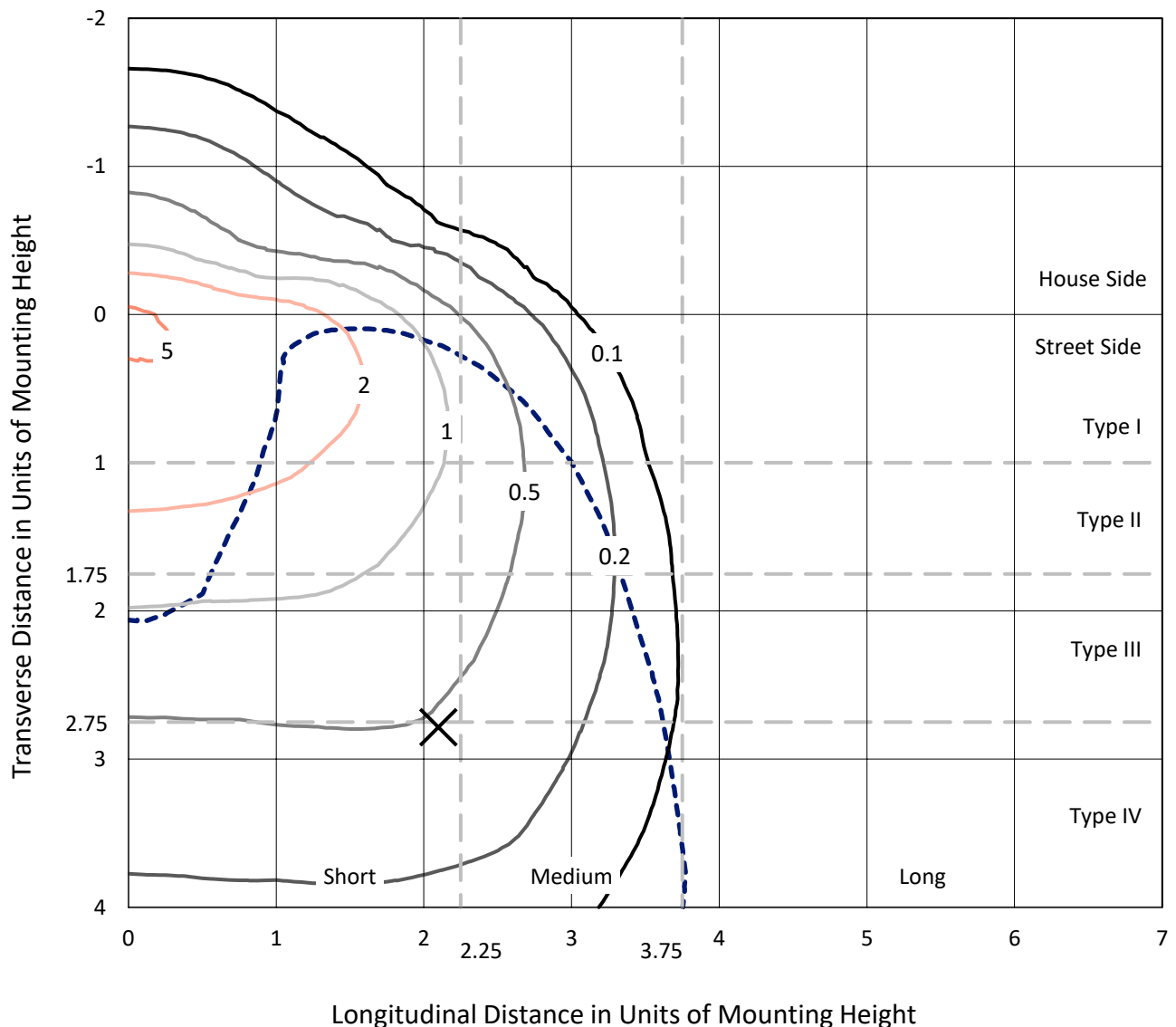
Input Watts (W): 129  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

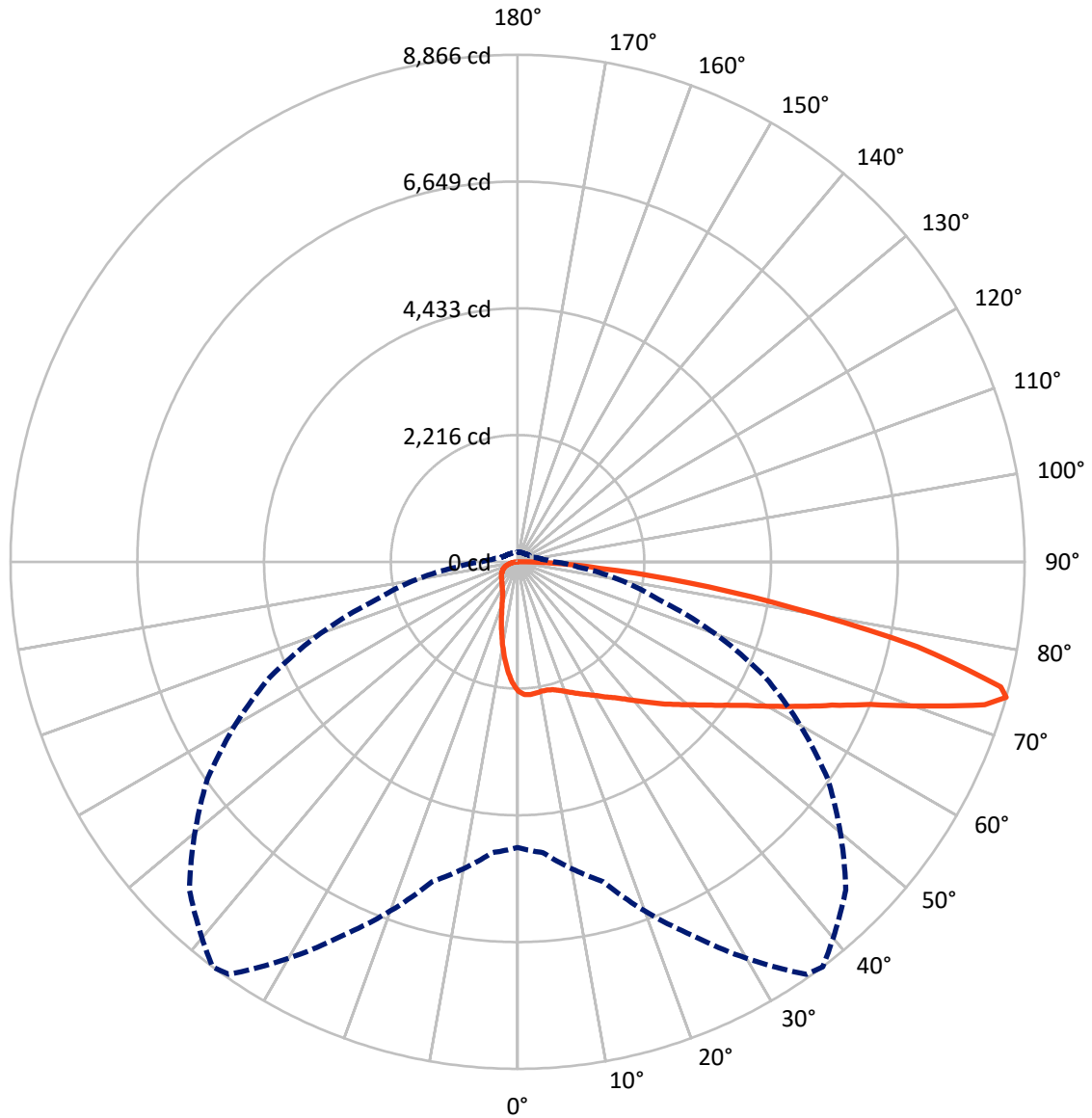
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 5.8 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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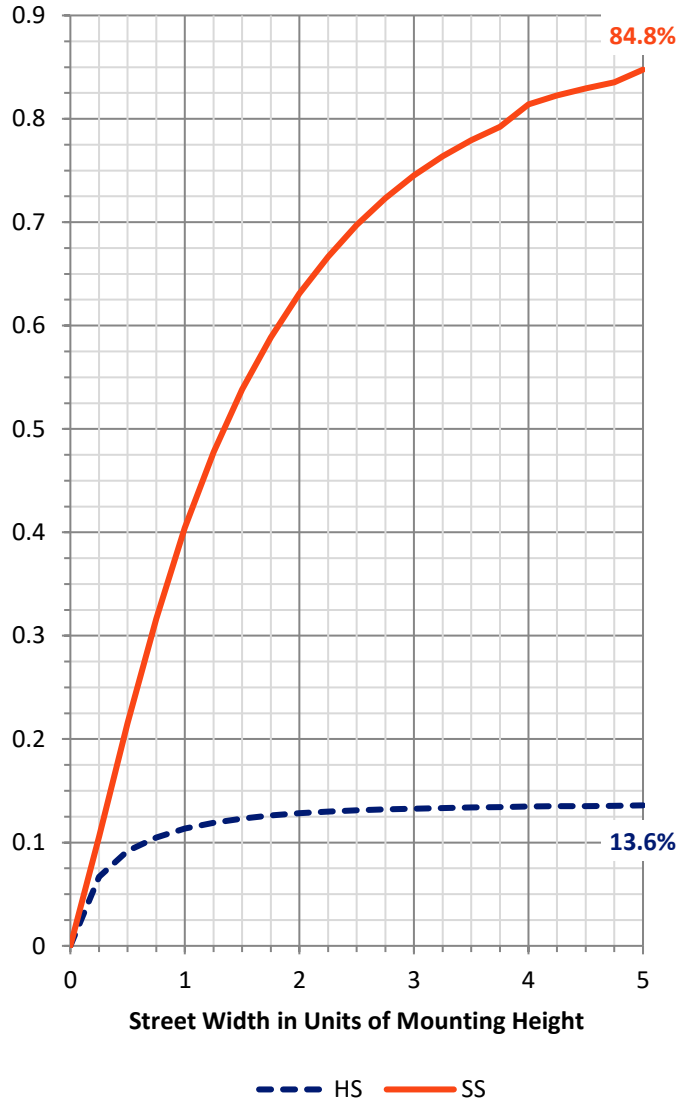
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1770.3	0.0	1770.3
	% Fixture	13.8	0.0	13.8
<b>Street Side</b>	Lumens	11095.7	0.0	11095.7
	% Fixture	86.2	0.0	86.2
<b>Total</b>	Lumens	12866.0	0.0	12866.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	199.6	1.6
10°-20°	511.7	4.0
20°-30°	788.4	6.1
30°-40°	1146.5	8.9
40°-50°	1687.5	13.1
50°-60°	2369.7	18.4
60°-70°	2999.3	23.3
70°-80°	2641.0	20.5
80°-90°	522.2	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°	12866.0	100.0
0°-180°	12866.0	100.0

**Coefficient of Utilization**



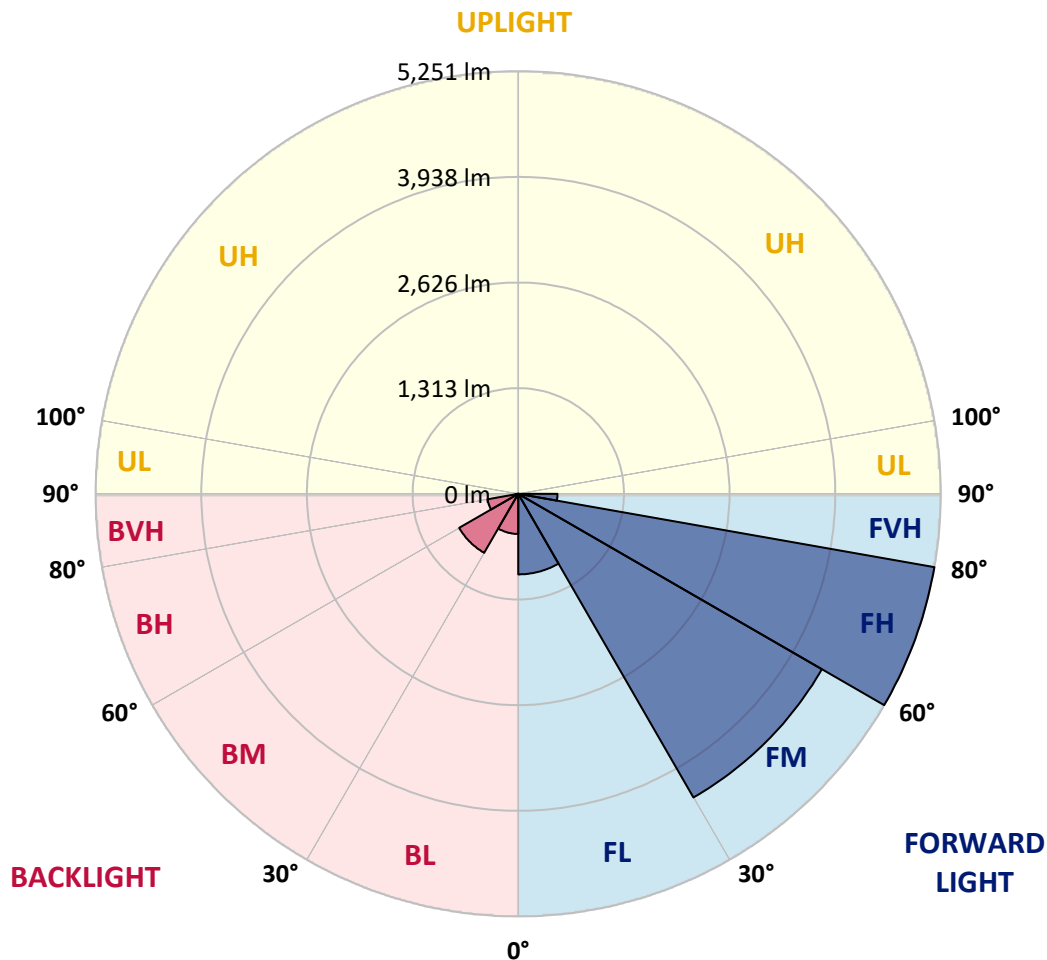
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1001.1	7.8			
FM (30°-60°)	4356.5	33.9			
FH (60°-80°)	5251.2	40.8			G3/7500
FVH (80°-90°)	486.8	3.8			G3/500
BL (0°-30°)	498.6	3.9	B1/500		
BM (30°-60°)	847.1	6.6	B1/1000		
BH (60°-80°)	389.1	3.0	B1/500		G1/500
BVH (80°-90°)	35.4	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°	2266.9	2266.9	2266.9	2266.9	2266.9	2266.9	2266.9	2266.9	2266.9	2266.9	2266.9
2.5°	2344.4	2344.9	2344.4	2340.8	2332.2	2324.9	2319.1	2310.4	2291.4	2276.9	2255.2
5°	2366.6	2363.9	2362.1	2355.3	2341.7	2333.6	2322.2	2305.9	2274.6	2245.6	2210.3
7.5°	2356.2	2353.0	2349.0	2340.8	2325.4	2318.6	2302.7	2281.4	2243.8	2205.8	2155.0
10°	2324.0	2323.1	2321.3	2319.5	2306.4	2300.9	2286.4	2263.8	2226.6	2180.4	2121.0
12.5°	2288.2	2290.5	2297.8	2307.3	2301.4	2298.7	2289.6	2274.2	2236.1	2186.3	2114.7
15°	2265.6	2271.9	2291.4	2316.3	2321.3	2320.4	2318.2	2308.2	2267.8	2212.6	2129.2
17.5°	2257.9	2268.3	2305.5	2346.7	2361.2	2364.4	2365.3	2348.1	2303.2	2244.7	2144.1
20°	2271.9	2285.1	2339.5	2396.1	2419.2	2421.0	2417.0	2387.0	2336.7	2272.4	2152.3
22.5°	2314.5	2326.3	2394.3	2458.2	2484.5	2487.2	2475.0	2429.6	2372.1	2305.0	2163.6
25°	2396.6	2411.1	2479.0	2542.9	2556.5	2557.0	2539.3	2483.1	2418.3	2350.8	2188.1
27.5°	2503.5	2518.0	2579.2	2641.7	2634.5	2630.4	2606.4	2550.2	2478.6	2413.8	2231.6
30°	2622.7	2638.6	2696.6	2741.0	2723.8	2715.6	2696.1	2623.6	2562.4	2499.9	2298.2
32.5°	2746.0	2760.5	2811.2	2841.6	2819.9	2816.2	2786.8	2720.6	2671.7	2631.3	2406.1
35°	2872.4	2882.8	2932.7	2949.9	2920.9	2920.0	2911.9	2851.1	2820.3	2839.3	2562.9
37.5°	3001.6	3004.3	3046.9	3047.8	3039.2	3042.8	3051.4	3013.4	3022.0	3081.4	2766.8
40°	3116.7	3124.0	3154.8	3164.3	3179.2	3191.9	3235.0	3210.1	3276.7	3381.8	3020.6
42.5°	3201.9	3216.0	3265.4	3289.8	3338.3	3358.3	3419.0	3442.1	3576.3	3734.0	3322.5
45°	3274.0	3295.7	3375.0	3425.3	3507.4	3542.3	3629.3	3706.8	3914.8	4116.0	3640.2
47.5°	3351.9	3379.6	3478.8	3574.9	3686.4	3725.8	3884.0	4000.0	4276.0	4500.3	3939.7
50°	3466.6	3487.9	3584.9	3735.8	3874.9	3925.7	4144.6	4310.9	4643.1	4866.5	4199.4
52.5°	3626.6	3618.4	3700.4	3912.1	4098.8	4161.3	4422.8	4641.7	5015.2	5197.8	4418.8
55°	3787.4	3773.9	3831.4	4096.5	4359.8	4425.6	4729.2	4973.9	5369.1	5496.0	4586.9
57.5°	3966.5	3940.6	3989.1	4304.6	4657.2	4735.6	5072.3	5327.0	5717.2	5737.1	4693.9
60°	4150.9	4116.0	4170.4	4562.4	5034.7	5127.1	5473.8	5671.4	6045.3	5930.2	4728.3
62.5°	4312.3	4287.8	4371.6	4850.2	5460.2	5561.8	5868.1	6037.6	6368.9	6010.4	4604.1
65°	4453.2	4457.3	4602.3	5173.8	5934.7	6043.1	6320.4	6489.0	6623.6	5962.8	4313.6
67.5°	4621.3	4644.5	4891.9	5599.8	6532.1	6650.8	6978.5	6981.2	6765.9	5683.7	3741.7
70°	4866.5	4914.1	5290.3	6190.8	7381.4	7544.5	7797.4	7270.3	6566.1	4926.8	2944.0
72.5°	5084.1	5172.9	5714.0	6867.0	8416.5	8540.2	8276.5	7103.6	5730.8	3692.3	1834.1
74°	4995.7	5105.8	5791.1	7200.1	8806.3	8865.6	8114.7	6616.8	4778.2	2557.0	1065.9
75°	4805.3	4925.0	5678.7	7196.9	8756.9	8723.8	7724.0	6060.7	3935.2	1743.9	709.3
77.5°	3878.1	4004.5	4785.0	6168.1	7180.2	7148.9	5933.4	4065.7	1723.5	571.9	360.3
80°	2254.7	2351.2	2970.3	3917.1	4841.6	4898.3	3902.1	2011.8	678.0	321.3	244.3
82.5°	1001.6	1068.2	1434.9	1999.5	2921.8	2994.8	2043.5	1054.2	418.8	195.3	146.8
85°	657.1	706.5	871.1	952.2	1391.3	1441.2	1000.2	820.8	276.5	107.4	107.9
87.5°	472.7	520.3	647.2	565.1	638.6	604.6	544.3	759.6	111.0	61.2	36.3
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°	2266.9	2266.9	2266.9	2266.9	2266.9	2266.9	2266.9	2266.9	2266.9	2266.9	2266.9
2.5°	2245.6	2238.4	2222.1	2191.3	2174.0	2159.5	2135.5	2121.5	2115.1	2114.7	2117.4
5°	2189.9	2173.1	2131.0	2079.3	2038.1	2000.5	1953.8	1925.7	1905.7	1894.0	1897.1
7.5°	2125.1	2098.8	2032.6	1950.1	1884.0	1811.0	1739.0	1695.9	1662.4	1637.4	1642.0
10°	2080.7	2044.4	1947.9	1829.1	1719.0	1613.0	1513.7	1454.3	1407.2	1370.9	1373.7
12.5°	2065.7	2016.8	1883.1	1724.5	1569.9	1424.9	1295.3	1204.2	1155.7	1114.4	1117.6
15°	2068.0	2002.3	1828.7	1630.2	1435.8	1253.1	1095.9	989.3	923.6	895.1	895.5
17.5°	2069.8	1985.5	1771.6	1529.1	1303.0	1092.7	921.8	814.0	751.9	725.6	726.0
20°	2063.9	1958.3	1700.9	1413.1	1164.3	945.4	780.0	688.4	641.3	620.9	620.9
22.5°	2056.2	1926.1	1621.1	1296.6	1027.4	817.6	678.5	608.7	581.5	567.9	567.4
25°	2059.8	1902.1	1539.5	1177.0	901.4	715.6	610.9	564.7	546.6	538.0	537.5
27.5°	2079.3	1890.8	1464.3	1057.8	791.3	639.0	565.6	533.0	521.2	515.7	515.7
30°	2114.7	1890.8	1385.9	956.3	699.8	582.4	530.7	508.5	500.3	496.7	496.7
32.5°	2176.3	1901.2	1310.2	855.7	626.8	538.0	501.7	486.7	480.4	478.6	478.6
35°	2282.3	1936.6	1236.3	760.5	567.9	501.7	474.1	465.4	460.9	460.5	461.8
37.5°	2431.5	2008.6	1167.0	690.2	526.2	472.2	450.9	444.1	441.4	443.7	445.5
40°	2619.1	2106.5	1104.0	626.8	494.4	448.7	429.6	425.1	423.7	426.9	429.6
42.5°	2845.7	2238.8	1052.3	581.0	470.0	428.7	411.5	406.1	404.7	408.3	412.0
45°	3090.9	2381.1	1016.1	547.0	450.9	413.8	395.6	389.8	387.0	388.9	392.9
47.5°	3313.8	2515.7	1001.6	523.0	432.8	401.1	381.6	374.3	369.8	368.9	372.1
50°	3501.9	2615.9	1008.4	508.5	418.3	387.0	368.0	359.8	353.0	349.0	351.2
52.5°	3638.8	2678.9	1014.7	502.2	407.0	371.6	353.0	345.3	336.3	329.5	329.5
55°	3738.0	2693.4	1000.7	497.2	398.4	354.9	336.3	329.0	320.0	312.3	311.4
57.5°	3777.0	2652.6	948.6	489.9	392.5	339.0	318.6	313.2	305.5	296.4	295.9
60°	3724.5	2526.6	847.9	474.5	384.8	325.9	300.9	297.3	293.7	285.1	284.6
62.5°	3513.3	2250.2	717.9	443.2	369.4	311.8	284.6	286.4	286.9	281.0	280.1
65°	3130.3	1870.4	591.0	402.4	346.2	295.0	267.8	276.5	281.4	280.5	279.2
67.5°	2573.8	1455.7	500.8	359.4	315.9	271.9	249.7	259.7	263.8	266.9	266.0
70°	1910.3	1026.5	414.2	314.1	279.2	244.7	226.2	231.1	228.4	232.0	233.4
72.5°	1065.0	615.9	337.6	268.8	241.1	213.0	199.9	199.0	193.1	193.1	193.1
74°	639.0	451.8	296.9	240.7	218.0	192.2	180.8	176.8	171.3	171.8	171.3
75°	513.9	388.4	272.4	222.1	201.7	179.9	168.6	163.2	159.1	159.1	158.6
77.5°	324.5	295.0	219.4	176.8	161.3	148.2	140.5	133.2	133.2	132.8	132.3
80°	245.2	234.8	170.9	133.7	123.7	113.8	108.8	105.6	105.6	107.0	106.5
82.5°	168.1	176.8	120.1	93.4	88.4	81.1	80.2	80.7	79.3	77.5	77.0
85°	122.8	132.8	81.1	58.9	53.9	49.4	53.0	54.8	52.6	48.5	46.7
87.5°	47.1	87.0	43.5	24.5	22.7	19.5	22.7	23.6	25.4	19.9	20.4
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)