

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions  
(formerly Eaton)

Brand: STREETWORKS

Report Number: P509617

Luminaire Tested: **VERD-G-CA2-130-750-U-T4**

Issue Date: 4/6/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P509617  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2102-155-6)  
Test Lab: INNOVATION CENTER  
Issue Date: 4/6/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: VERD-G-CA2-130-750-U-T4  
Description: VERDEON-G ROADWAY AND AREA LUMINAIRE  
(2) 70 CRI, 5000K, 1200mA LEDS AND TYPE IV OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 18998 lumens  
Efficiency: N/A  
Efficacy: 141.9 lumens/watt  
Luminous Opening: Rectangular (W 0.9' x L: 1.25' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G4

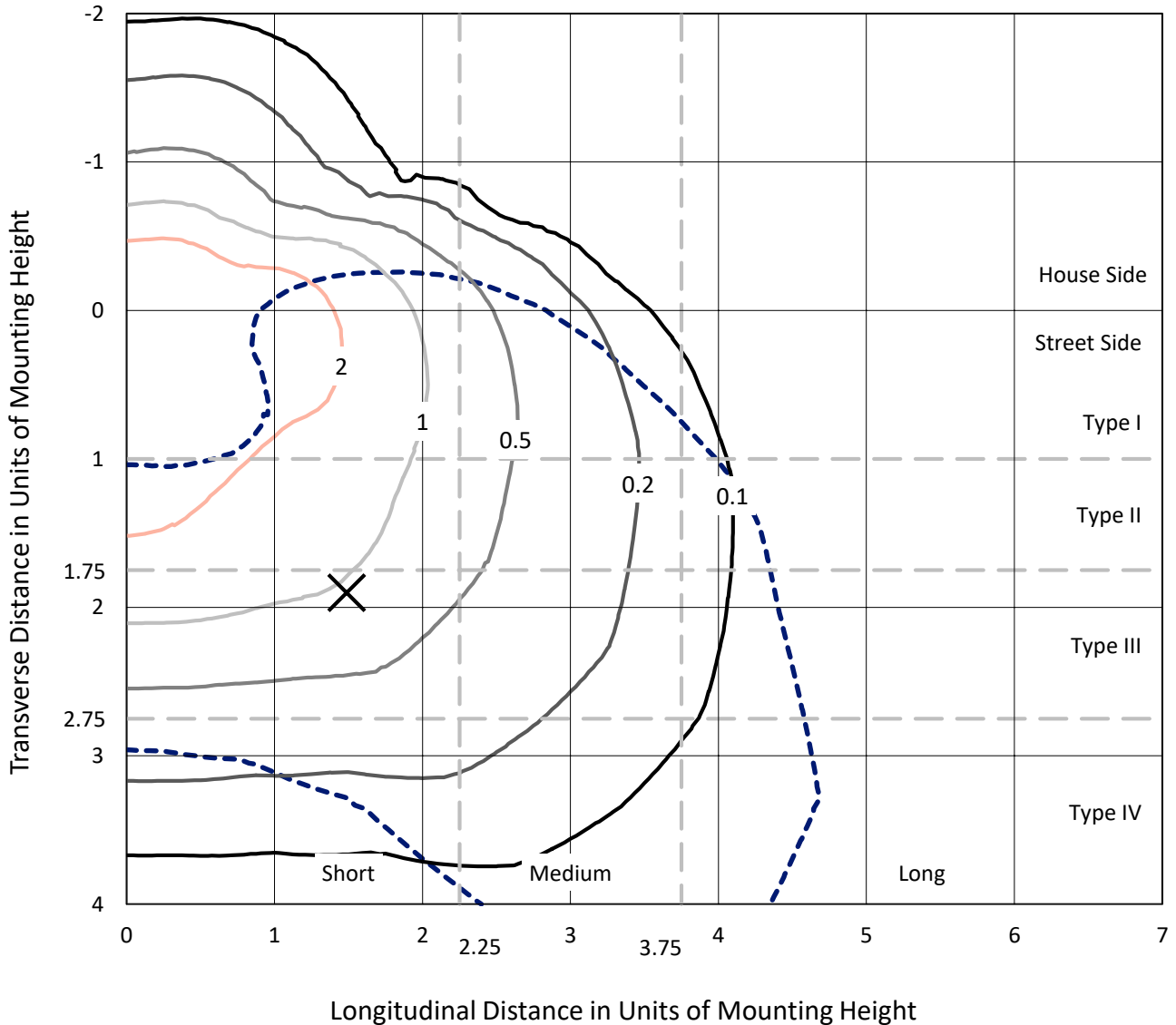
Input Watts (W): 133.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

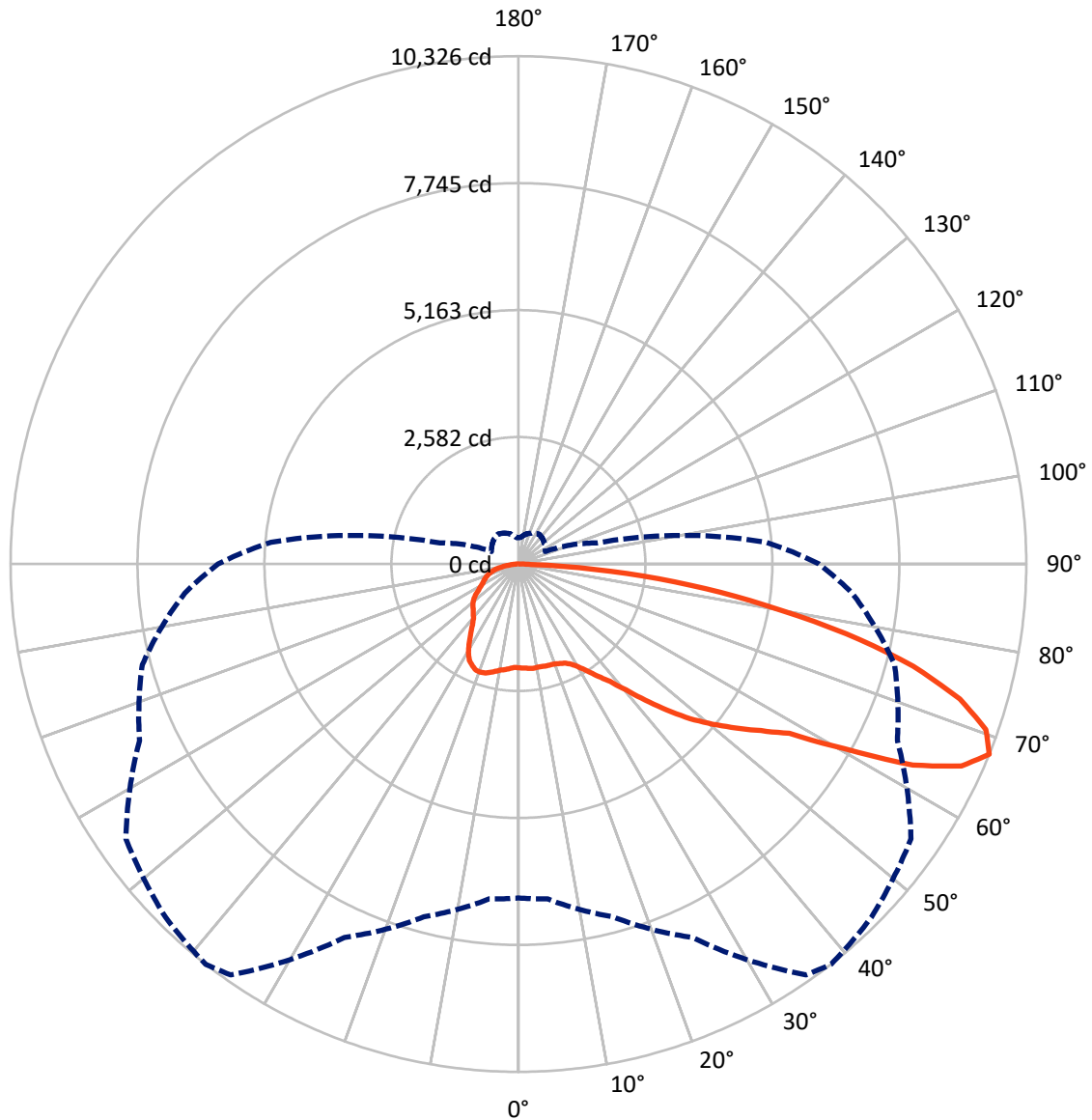
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.6 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 38-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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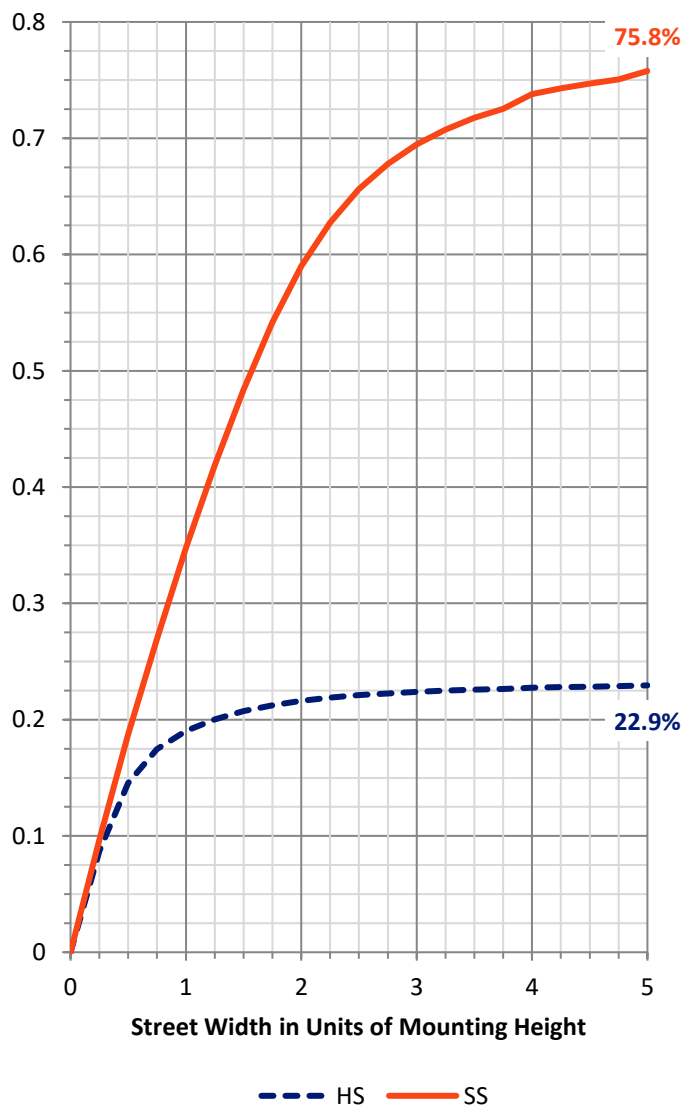
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4408.1	0.0	4408.1
	% Fixture	23.2	0.0	23.2
<b>Street Side</b>	Lumens	14589.9	0.0	14589.9
	% Fixture	76.8	0.0	76.8
<b>Total</b>	Lumens	18998.0	0.0	18998.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	204.8	1.1
10°-20°	631.5	3.3
20°-30°	1070.4	5.6
30°-40°	1640.4	8.6
40°-50°	2702.9	14.2
50°-60°	3863.3	20.3
60°-70°	4812.6	25.3
70°-80°	3429.5	18.1
80°-90°	642.4	3.4
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°	18998.0	100.0
0°-180°	18998.0	100.0

**Coefficient of Utilization**



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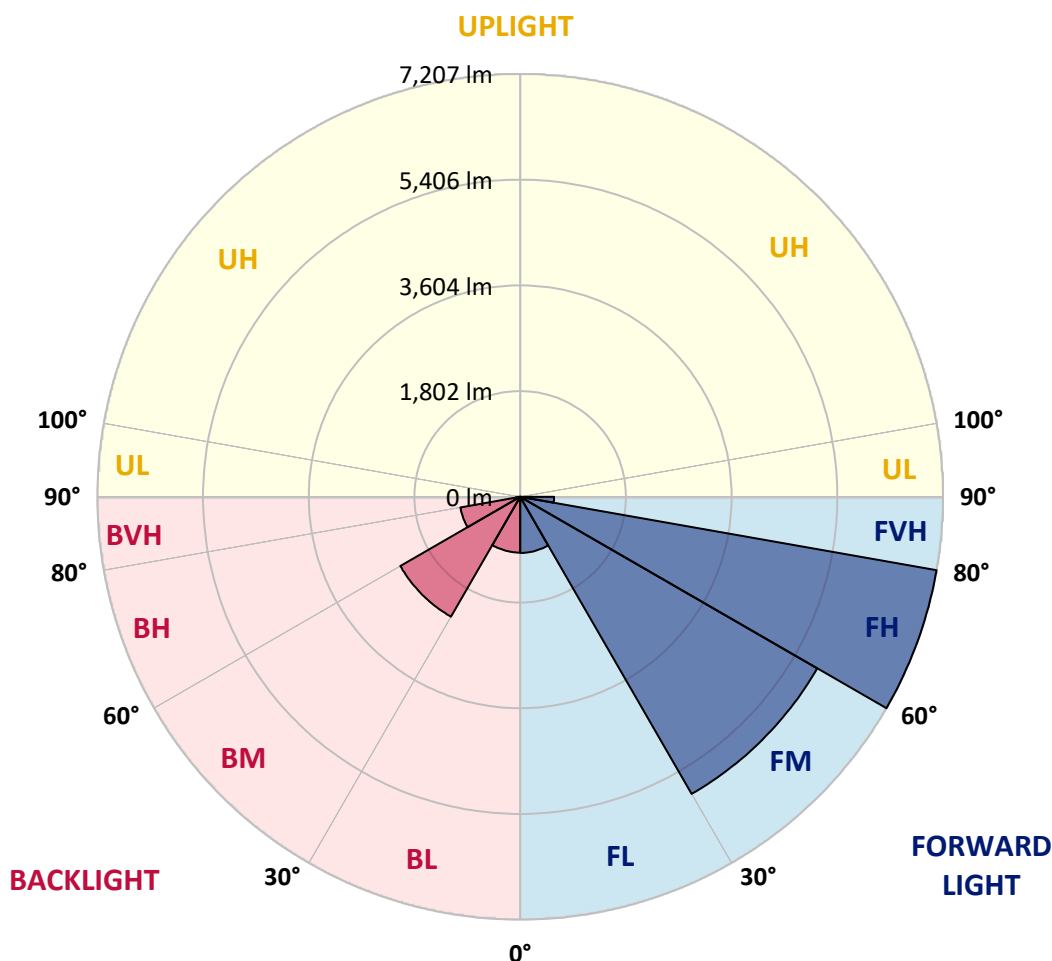
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	956.3	5.0			
FM (30°-60°)	5847.1	30.8			
FH (60°-80°)	7207.4	37.9			G3/7500
FVH (80°-90°)	579.1	3.0			G4/750
BL (0°-30°)	950.5	5.0	B2/1000		
BM (30°-60°)	2359.5	12.4	B2/2500		
BH (60°-80°)	1034.8	5.4	B3/2500		G3/2500
BVH (80°-90°)	63.3	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G4**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	2110.7	2110.7	2110.7	2110.7	2110.7	2110.7	2110.7	2110.7	2110.7	2110.7	2110.7
2.5°	2149.9	2158.7	2142.3	2139.8	2129.7	2117.0	2119.6	2109.5	2096.8	2101.9	2104.4
5°	2162.5	2162.5	2149.9	2137.2	2132.2	2129.7	2132.2	2120.8	2118.3	2127.1	2119.6
7.5°	2151.1	2158.7	2137.2	2137.2	2128.4	2143.5	2144.8	2130.9	2141.0	2141.0	2139.8
10°	2148.6	2151.1	2142.3	2124.6	2123.3	2132.2	2149.9	2154.9	2159.9	2158.7	2163.7
12.5°	2119.6	2117.0	2099.4	2104.4	2128.4	2137.2	2167.5	2181.4	2200.3	2205.4	2207.9
15°	2082.9	2093.0	2094.3	2109.5	2134.7	2148.6	2178.9	2206.7	2248.3	2258.4	2257.2
17.5°	2086.7	2090.5	2096.8	2105.7	2144.8	2151.1	2200.3	2230.6	2282.4	2317.7	2335.4
20°	2110.7	2103.1	2115.8	2138.5	2159.9	2165.0	2216.8	2263.5	2334.2	2380.9	2401.1
22.5°	2151.1	2152.4	2158.7	2158.7	2173.8	2196.6	2244.5	2281.1	2368.2	2433.9	2469.2
25°	2189.0	2191.5	2199.1	2196.6	2221.8	2231.9	2277.4	2332.9	2432.6	2509.6	2577.8
27.5°	2245.8	2253.4	2248.3	2249.6	2298.8	2308.9	2329.1	2403.6	2505.8	2609.4	2730.5
30°	2351.8	2351.8	2346.8	2351.8	2404.9	2430.1	2436.4	2509.6	2592.9	2717.9	2901.0
32.5°	2504.6	2505.8	2474.3	2499.5	2558.9	2603.0	2622.0	2738.1	2831.5	2892.1	3128.2
35°	2831.5	2817.7	2784.8	2711.6	2749.5	2803.8	2864.4	3012.1	3217.8	3443.8	3681.1
37.5°	3332.7	3331.4	3215.3	3068.9	3003.2	3031.0	3115.6	3336.5	3658.4	4222.7	4432.3
40°	3889.4	3903.3	3735.4	3552.4	3359.2	3361.7	3383.2	3659.7	4125.5	4941.0	5050.8
42.5°	4444.9	4422.2	4236.6	4061.1	3798.5	3782.1	3725.3	3986.6	4614.0	5515.4	5530.5
45°	4939.7	4928.4	4722.6	4544.6	4297.2	4234.1	4169.7	4336.3	5079.9	5979.9	5880.2
47.5°	5404.3	5419.4	5135.4	4975.1	4730.2	4698.6	4624.1	4730.2	5540.6	6344.8	6164.3
50°	5933.2	5939.5	5600.0	5401.8	5159.4	5119.0	5090.0	5225.0	6016.6	6693.2	6453.3
52.5°	6525.3	6401.6	6070.8	5798.2	5565.9	5535.6	5519.2	5660.6	6537.9	6998.7	6644.0
55°	7270.1	7104.7	6766.4	6314.5	5976.2	5981.2	5924.4	6089.8	6977.2	7209.5	6829.5
57.5°	7595.8	7633.7	7570.6	7159.0	6565.7	6492.5	6352.3	6479.8	7395.1	7456.9	6976.0
60°	8209.3	8355.8	8219.4	7989.7	7814.2	7622.3	6938.1	6986.1	7776.3	7730.9	6992.4
62.5°	8251.0	8301.5	8732.0	8768.6	8939.0	9003.4	8436.6	7560.5	8122.2	7868.5	7047.9
65°	7842.0	7898.8	8417.6	8873.3	9811.3	9899.7	9720.4	8612.0	8402.5	7943.0	7003.7
67.5°	6790.4	6837.1	7426.6	8378.5	10198.9	10326.4	10152.1	9743.1	8500.9	7917.7	6809.3
70°	5808.3	5834.8	6324.6	7656.4	9932.5	10082.7	10013.3	9786.0	8497.1	7768.7	6380.1
72.5°	4562.3	4639.3	5034.4	6349.8	9259.6	9385.9	9406.1	9522.2	8281.3	7278.9	5420.7
75°	3308.7	3350.4	3798.5	4933.4	7992.2	8293.9	8648.6	9086.7	7469.6	6179.4	4008.1
77.5°	2331.6	2372.0	2793.7	3740.5	6468.5	6811.9	7453.2	7710.7	6060.7	4631.7	2109.5
80°	1535.1	1530.0	1931.5	2768.4	4853.9	5095.0	5570.9	5226.3	3517.0	2013.5	229.8
82.5°	901.3	951.8	1237.1	1902.4	3392.0	3525.9	3513.2	2752.0	1396.2	208.3	117.4
85°	520.1	539.0	729.7	1127.3	1869.6	1888.5	1691.6	1068.0	345.9	93.4	69.4
87.5°	232.3	223.4	290.3	372.4	340.8	253.7	157.8	44.2	26.5	17.7	11.4
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°	2110.7	2110.7	2110.7	2110.7	2110.7	2110.7	2110.7	2110.7	2110.7	2110.7	2110.7
2.5°	2094.3	2088.0	2119.6	2101.9	2117.0	2108.2	2100.6	2110.7	2129.7	2146.1	2136.0
5°	2110.7	2114.5	2139.8	2118.3	2138.5	2134.7	2124.6	2136.0	2166.3	2181.4	2180.1
7.5°	2129.7	2132.2	2158.7	2149.9	2158.7	2151.1	2167.5	2159.9	2186.5	2196.6	2190.2
10°	2152.4	2156.2	2180.1	2181.4	2185.2	2180.1	2187.7	2191.5	2206.7	2226.9	2214.2
12.5°	2201.6	2210.4	2228.1	2247.1	2244.5	2224.3	2230.6	2210.4	2224.3	2230.6	2240.7
15°	2269.8	2291.2	2301.3	2327.8	2303.9	2292.5	2268.5	2228.1	2215.5	2209.2	2199.1
17.5°	2343.0	2363.2	2382.1	2416.2	2377.1	2346.8	2305.1	2229.4	2172.6	2152.4	2143.5
20°	2425.1	2444.0	2478.1	2500.8	2442.7	2377.1	2310.2	2199.1	2086.7	2009.7	2018.6
22.5°	2517.2	2558.9	2581.6	2575.3	2493.2	2403.6	2288.7	2119.6	1975.6	1860.8	1853.2
25°	2644.7	2668.7	2677.5	2619.5	2521.0	2384.7	2216.8	2024.9	1824.2	1695.4	1676.5
27.5°	2778.5	2803.8	2757.1	2648.5	2512.2	2340.5	2136.0	1863.3	1648.7	1525.0	1511.1
30°	2950.2	2943.9	2811.3	2639.7	2461.7	2234.4	1988.3	1697.9	1499.7	1384.8	1378.5
32.5°	3137.0	3090.3	2855.5	2596.7	2365.7	2095.6	1800.2	1541.4	1388.6	1273.8	1268.7
35°	3578.9	3364.3	2919.9	2542.5	2224.3	1903.7	1626.0	1424.0	1300.3	1170.2	1145.0
37.5°	4227.7	3881.8	3052.5	2486.9	2062.7	1714.3	1480.8	1336.9	1219.5	1080.6	1056.6
40°	4832.4	4408.3	3284.7	2445.2	1917.6	1561.6	1381.1	1276.3	1162.7	1023.8	993.5
42.5°	5261.6	4817.3	3563.7	2377.1	1772.4	1440.4	1339.4	1253.6	1147.5	1018.7	994.8
45°	5607.5	5170.8	3840.2	2300.1	1602.0	1336.9	1296.5	1234.6	1128.6	1003.6	975.8
47.5°	5851.2	5392.9	4032.1	2213.0	1439.1	1273.8	1259.9	1204.3	1099.5	982.1	964.5
50°	6102.4	5641.6	4163.4	2123.3	1292.7	1225.8	1209.4	1136.2	1040.2	935.4	916.5
52.5°	6266.5	5762.8	4239.1	2105.7	1167.7	1160.1	1139.9	1070.5	979.6	866.0	843.3
55°	6391.5	5870.1	4227.7	2002.2	1055.4	1074.3	1061.7	1009.9	930.4	819.3	804.1
57.5°	6421.8	5886.5	4124.2	1681.5	949.3	959.4	965.7	975.8	898.8	806.7	781.4
60°	6508.9	5809.5	3941.2	1209.4	824.3	849.6	900.1	908.9	855.9	751.1	736.0
62.5°	6453.3	5757.8	3543.5	852.1	736.0	787.7	835.7	835.7	762.5	665.3	655.2
65°	6356.1	5553.3	2772.2	671.6	689.3	742.3	786.5	756.2	693.1	602.2	595.8
67.5°	6108.7	5054.6	1655.0	604.7	656.4	706.9	738.5	693.1	633.7	544.1	534.0
70°	5398.0	4028.3	629.9	573.1	623.6	659.0	679.2	632.5	574.4	484.8	475.9
72.5°	4285.8	2519.7	400.2	534.0	582.0	613.5	626.1	571.9	479.7	377.5	367.4
75°	2579.1	719.6	347.2	462.0	512.5	566.8	545.4	474.7	405.2	316.9	310.5
77.5°	652.7	218.4	309.3	372.4	416.6	481.0	479.7	428.0	353.5	258.8	248.7
80°	156.5	152.7	251.2	275.2	314.3	368.6	363.6	356.0	280.3	179.3	147.7
82.5°	99.7	106.0	170.4	154.0	179.3	214.6	243.6	229.8	209.6	109.8	98.5
85°	66.9	84.6	83.3	58.1	80.8	121.2	157.8	143.9	118.7	68.2	60.6
87.5°	10.1	11.4	15.1	22.7	35.3	59.3	78.3	77.0	58.1	42.9	40.4
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)