

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: P509601

Luminaire Tested: **VERD-G-CA2-130-730-U-T4**

Issue Date: 4/6/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P509601  
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-CA2-130-730-U-T4  
Description: VERDEON-G ROADWAY AND AREA LUMINAIRE  
(2) 70 CRI, 3000K, 1200mA LEDS AND TYPE IV OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 18318 lumens  
Efficiency: N/A  
Efficacy: 136.8 lumens/watt  
Luminous Opening: Rectangular (W 0.9' x L: 1.25' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G4

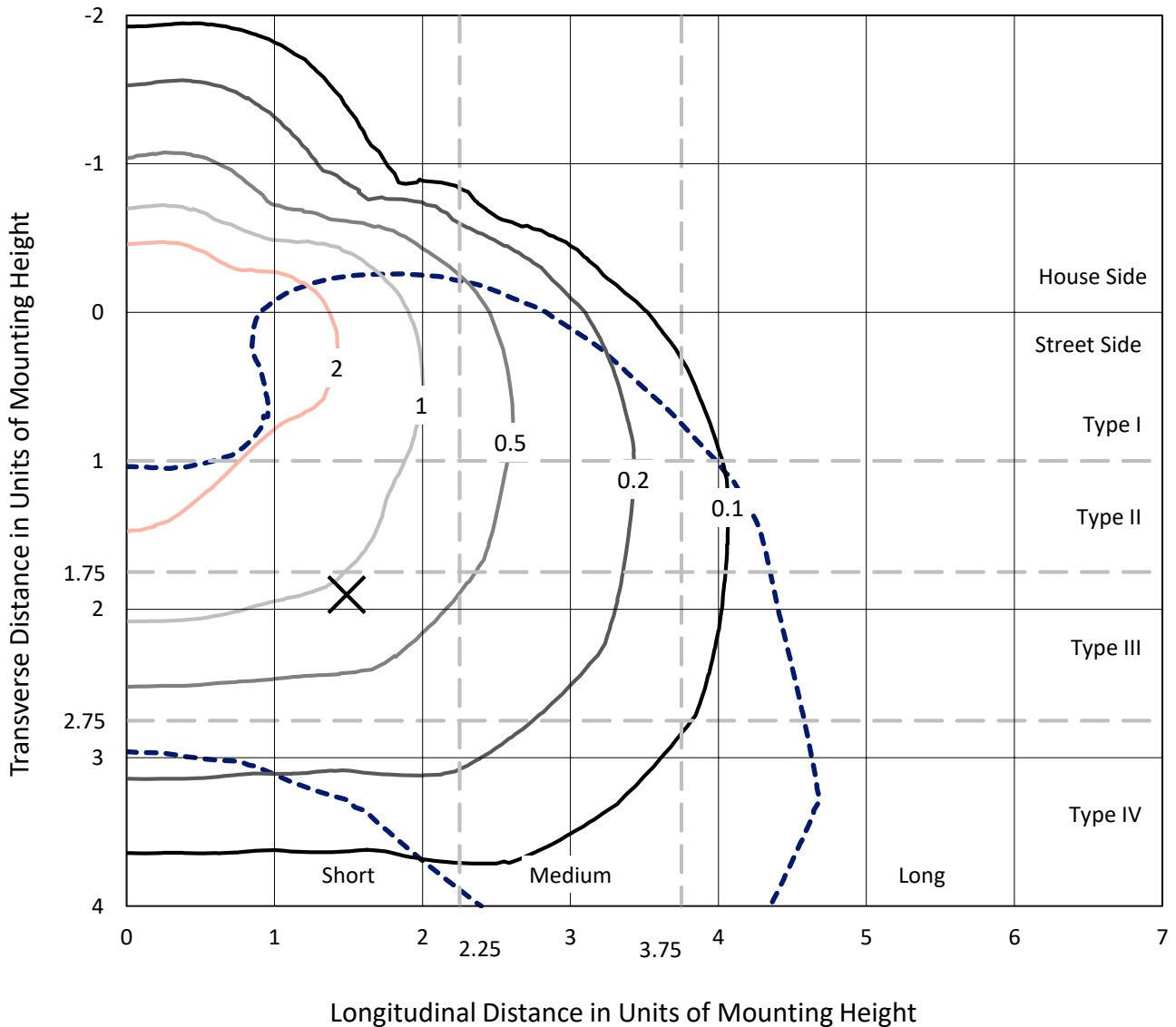
Input Watts (W): 133.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

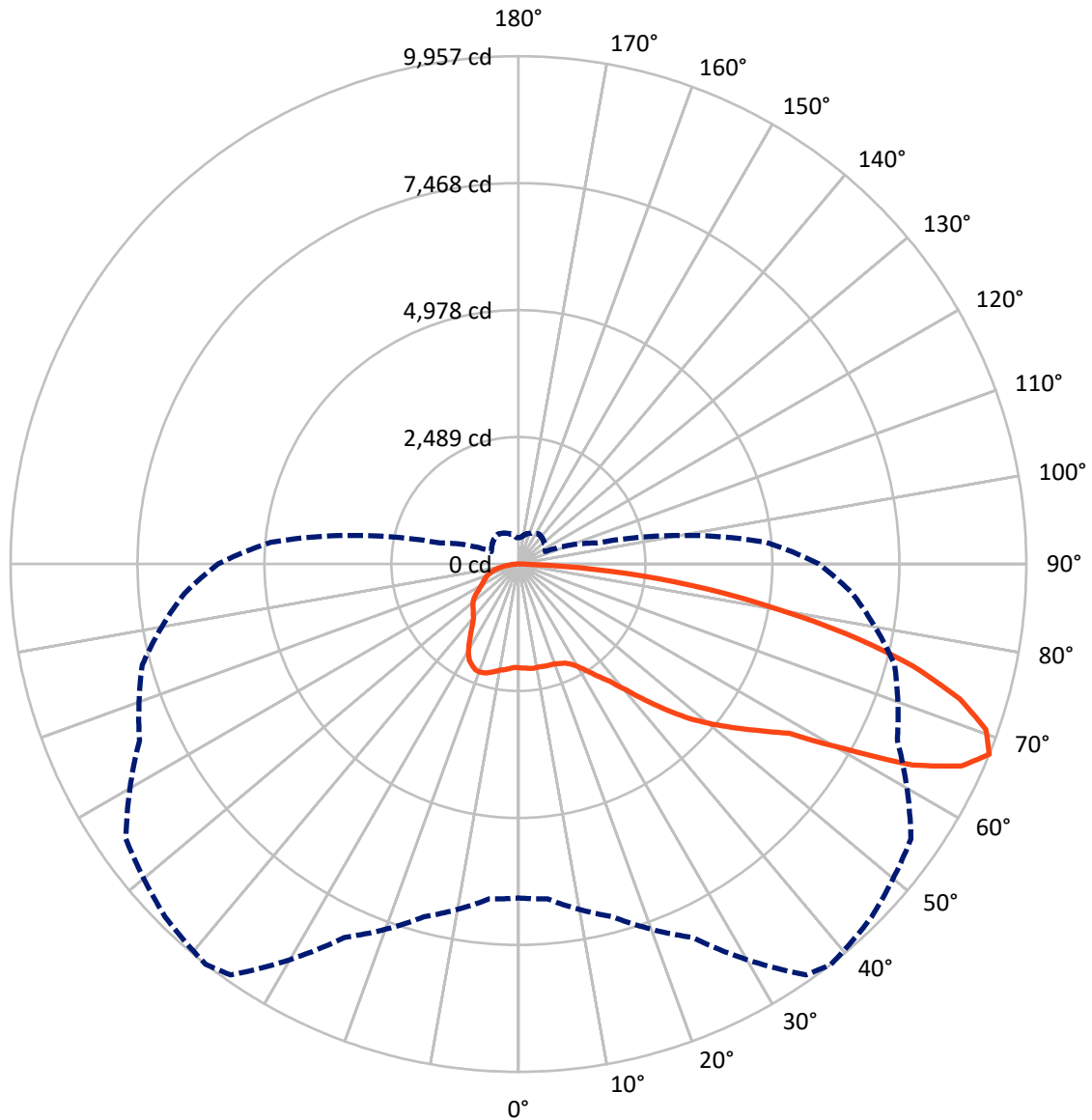
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.5 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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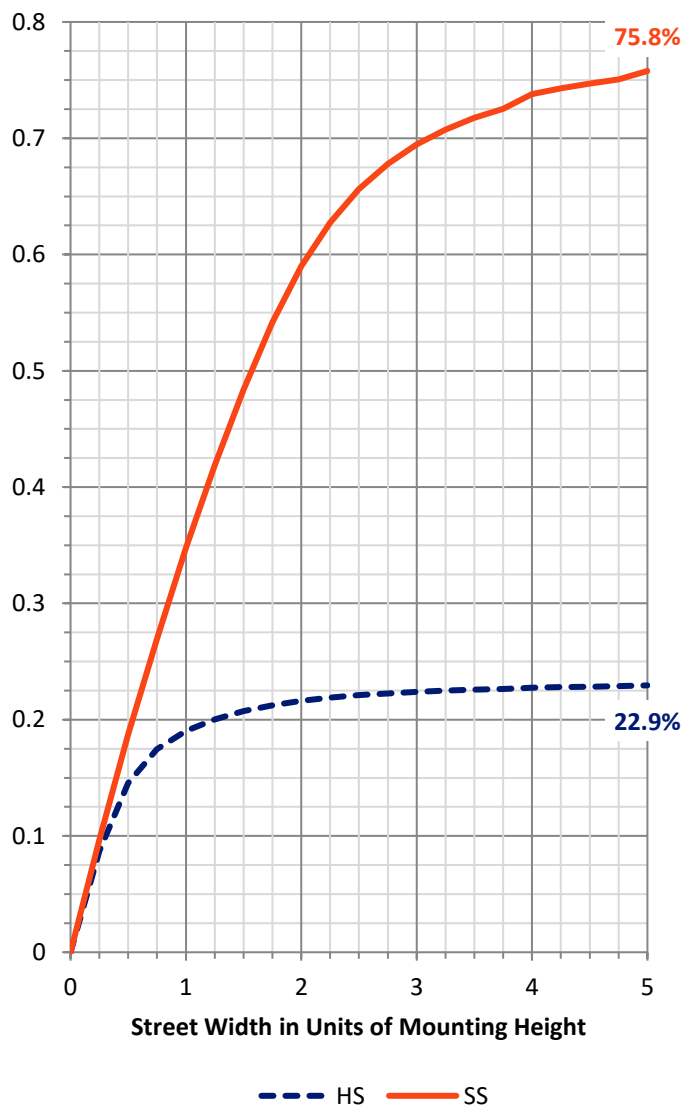
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4250.3	0.0	4250.3
	% Fixture	23.2	0.0	23.2
<b>Street Side</b>	Lumens	14067.7	0.0	14067.7
	% Fixture	76.8	0.0	76.8
<b>Total</b>	Lumens	18318.0	0.0	18318.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	197.5	1.1
10°-20°	608.9	3.3
20°-30°	1032.1	5.6
30°-40°	1581.7	8.6
40°-50°	2606.2	14.2
50°-60°	3725.0	20.3
60°-70°	4640.4	25.3
70°-80°	3306.8	18.1
80°-90°	619.4	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°	18318.0	100.0
0°-180°	18318.0	100.0

**Coefficient of Utilization**



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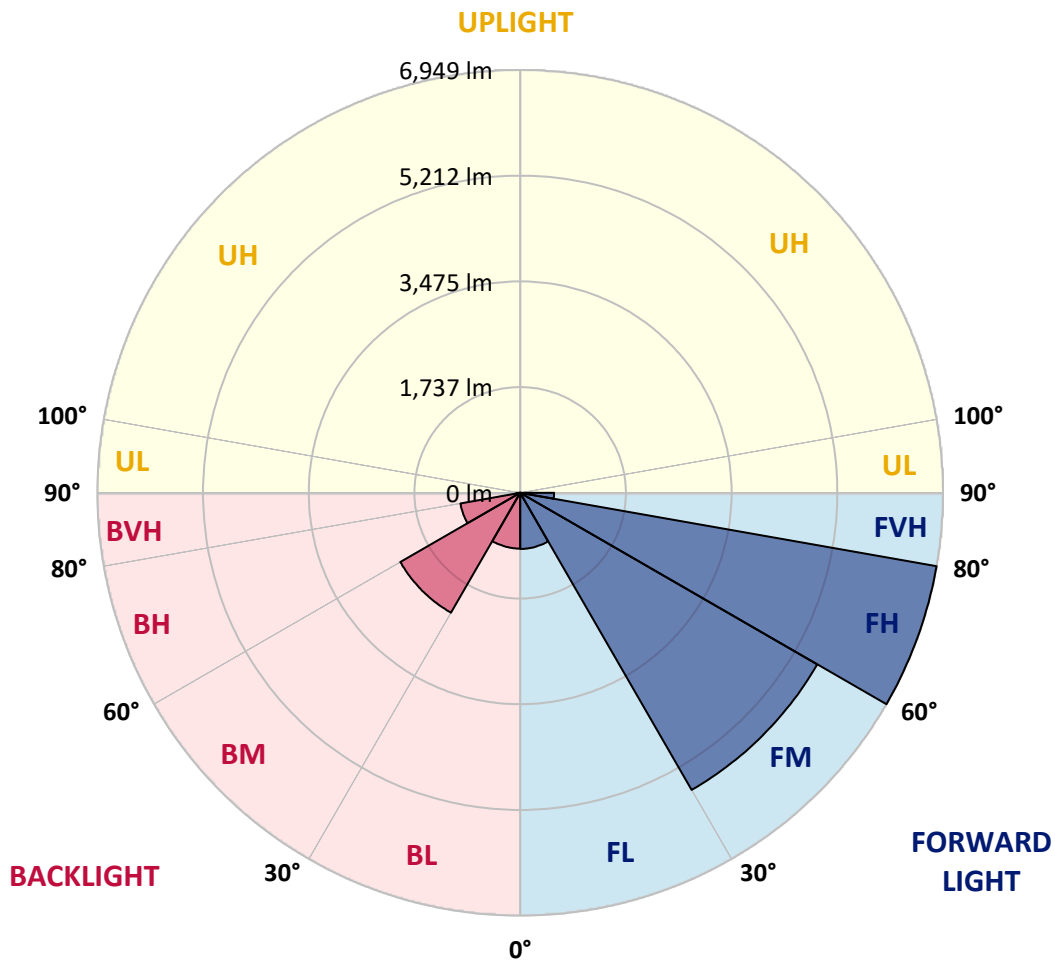
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	922.0	5.0			
FM (30°-60°)	5637.8	30.8			
FH (60°-80°)	6949.4	37.9			G3/7500
FVH (80°-90°)	558.4	3.0			G4/750
BL (0°-30°)	916.5	5.0	B2/1000		
BM (30°-60°)	2275.0	12.4	B2/2500		
BH (60°-80°)	997.7	5.4	B2/1000		G2/1000
BVH (80°-90°)	61.0	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G4**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	2035.2	2035.2	2035.2	2035.2	2035.2	2035.2	2035.2	2035.2	2035.2	2035.2	2035.2
2.5°	2072.9	2081.4	2065.6	2063.2	2053.4	2041.3	2043.7	2033.9	2021.8	2026.6	2029.1
5°	2085.1	2085.1	2072.9	2060.7	2055.9	2053.4	2055.9	2044.9	2042.5	2051.0	2043.7
7.5°	2074.1	2081.4	2060.7	2060.7	2052.2	2066.8	2068.0	2054.6	2064.4	2064.4	2063.2
10°	2071.7	2074.1	2065.6	2048.6	2047.3	2055.9	2072.9	2077.8	2082.6	2081.4	2086.3
12.5°	2043.7	2041.3	2024.2	2029.1	2052.2	2060.7	2089.9	2103.3	2121.6	2126.5	2128.9
15°	2008.4	2018.1	2019.3	2033.9	2058.3	2071.7	2100.9	2127.7	2167.8	2177.6	2176.4
17.5°	2012.0	2015.7	2021.8	2030.3	2068.0	2074.1	2121.6	2150.8	2200.7	2234.8	2251.8
20°	2035.2	2027.9	2040.0	2061.9	2082.6	2087.5	2137.4	2182.4	2250.6	2295.6	2315.1
22.5°	2074.1	2075.3	2081.4	2081.4	2096.0	2117.9	2164.2	2199.5	2283.5	2346.8	2380.9
25°	2110.6	2113.1	2120.4	2117.9	2142.3	2152.0	2195.8	2249.4	2345.6	2419.8	2485.5
27.5°	2165.4	2172.7	2167.8	2169.1	2216.5	2226.3	2245.7	2317.6	2416.2	2516.0	2632.8
30°	2267.7	2267.7	2262.8	2267.7	2318.8	2343.1	2349.2	2419.8	2500.1	2620.6	2797.1
32.5°	2414.9	2416.2	2385.7	2410.1	2467.3	2509.9	2528.1	2640.1	2730.2	2788.6	3016.2
35°	2730.2	2716.8	2685.2	2614.6	2651.1	2703.4	2761.8	2904.3	3102.7	3320.5	3549.4
37.5°	3213.4	3212.2	3100.2	2959.0	2895.7	2922.5	3004.1	3217.1	3527.5	4071.6	4273.6
40°	3750.2	3763.6	3601.7	3425.2	3239.0	3241.4	3262.1	3528.7	3977.8	4764.1	4870.0
42.5°	4285.8	4263.9	4084.9	3915.7	3662.6	3646.7	3592.0	3843.9	4448.9	5318.0	5332.6
45°	4762.9	4752.0	4553.6	4381.9	4143.4	4082.5	4020.4	4181.1	4898.0	5765.9	5669.7
47.5°	5210.9	5225.5	4951.6	4797.0	4560.9	4530.4	4458.6	4560.9	5342.3	6117.7	5943.6
50°	5720.9	5727.0	5399.5	5208.4	4974.7	4935.8	4907.8	5038.0	5801.2	6453.6	6222.4
52.5°	6291.7	6172.4	5853.5	5590.6	5366.7	5337.4	5321.6	5457.9	6303.9	6748.2	6406.2
55°	7009.9	6850.4	6524.2	6088.5	5762.2	5767.1	5712.3	5871.8	6727.5	6951.5	6585.1
57.5°	7323.9	7360.4	7299.6	6902.8	6330.7	6260.1	6125.0	6247.9	7130.4	7190.0	6726.3
60°	7915.5	8056.7	7925.2	7703.7	7534.5	7349.5	6689.8	6736.0	7498.0	7454.2	6742.1
62.5°	7955.7	8004.3	8419.4	8454.7	8619.0	8681.1	8134.6	7289.8	7831.5	7586.8	6795.7
65°	7561.3	7616.1	8116.3	8555.7	9460.1	9545.3	9372.5	8303.8	8101.7	7658.7	6753.1
67.5°	6547.3	6592.4	7160.8	8078.6	9833.8	9956.7	9788.8	9394.4	8196.7	7634.3	6565.6
70°	5600.4	5625.9	6098.2	7382.3	9577.0	9721.8	9654.9	9435.8	8193.0	7490.7	6151.8
72.5°	4399.0	4473.2	4854.2	6122.5	8928.2	9049.9	9069.4	9181.4	7984.9	7018.4	5226.7
75°	3190.3	3230.5	3662.6	4756.8	7706.1	7997.0	8339.1	8761.4	7202.2	5958.2	3864.6
77.5°	2248.2	2287.1	2693.7	3606.6	6237.0	6568.0	7186.4	7434.7	5843.8	4465.9	2033.9
80°	1480.1	1475.3	1862.3	2669.3	4680.2	4912.6	5371.5	5039.2	3391.1	1941.4	221.5
82.5°	869.1	917.8	1192.9	1834.3	3270.6	3399.7	3387.5	2653.5	1346.2	200.8	113.2
85°	501.5	519.7	703.5	1087.0	1802.7	1820.9	1631.1	1029.8	333.5	90.1	66.9
87.5°	224.0	215.4	280.0	359.1	328.6	244.7	152.2	42.6	25.6	17.0	11.0
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°	2035.2	2035.2	2035.2	2035.2	2035.2	2035.2	2035.2	2035.2	2035.2	2035.2	2035.2
2.5°	2019.3	2013.3	2043.7	2026.6	2041.3	2032.7	2025.4	2035.2	2053.4	2069.2	2059.5
5°	2035.2	2038.8	2063.2	2042.5	2061.9	2058.3	2048.6	2059.5	2088.7	2103.3	2102.1
7.5°	2053.4	2055.9	2081.4	2072.9	2081.4	2074.1	2089.9	2082.6	2108.2	2117.9	2111.9
10°	2075.3	2079.0	2102.1	2103.3	2107.0	2102.1	2109.4	2113.1	2127.7	2147.1	2135.0
12.5°	2122.8	2131.3	2148.4	2166.6	2164.2	2144.7	2150.8	2131.3	2144.7	2150.8	2160.5
15°	2188.5	2209.2	2219.0	2244.5	2221.4	2210.4	2187.3	2148.4	2136.2	2130.1	2120.4
17.5°	2259.1	2278.6	2296.9	2329.7	2292.0	2262.8	2222.6	2149.6	2094.8	2075.3	2066.8
20°	2338.3	2356.5	2389.4	2411.3	2355.3	2292.0	2227.5	2120.4	2012.0	1937.8	1946.3
22.5°	2427.1	2467.3	2489.2	2483.1	2404.0	2317.6	2206.8	2043.7	1904.9	1794.2	1786.9
25°	2550.0	2573.2	2581.7	2525.7	2430.8	2299.3	2137.4	1952.4	1758.9	1634.7	1616.4
27.5°	2679.1	2703.4	2658.4	2553.7	2422.2	2256.7	2059.5	1796.6	1589.7	1470.4	1457.0
30°	2844.6	2838.5	2710.7	2545.2	2373.6	2154.5	1917.1	1637.1	1446.0	1335.3	1329.2
32.5°	3024.8	2979.7	2753.3	2503.8	2281.0	2020.6	1735.7	1486.2	1338.9	1228.2	1223.3
35°	3450.8	3243.9	2815.4	2451.5	2144.7	1835.5	1567.8	1373.0	1253.7	1128.3	1104.0
37.5°	4076.4	3742.9	2943.2	2397.9	1988.9	1653.0	1427.8	1289.0	1175.8	1041.9	1018.8
40°	4659.5	4250.5	3167.2	2357.7	1848.9	1505.7	1331.6	1230.6	1121.0	987.2	957.9
42.5°	5073.3	4644.9	3436.2	2292.0	1709.0	1388.8	1291.5	1208.7	1106.4	982.3	959.2
45°	5406.8	4985.7	3702.7	2217.7	1544.6	1289.0	1250.1	1190.4	1088.2	967.7	940.9
47.5°	5641.7	5199.9	3887.8	2133.8	1387.6	1228.2	1214.8	1161.2	1060.2	947.0	929.9
50°	5884.0	5439.7	4014.3	2047.3	1246.4	1181.9	1166.1	1095.5	1003.0	901.9	883.7
52.5°	6042.2	5556.5	4087.4	2030.3	1125.9	1118.6	1099.1	1032.2	944.6	835.0	813.1
55°	6162.7	5660.0	4076.4	1930.5	1017.6	1035.8	1023.7	973.8	897.1	790.0	775.4
57.5°	6191.9	5675.8	3976.6	1621.3	915.3	925.1	931.2	940.9	866.7	777.8	753.4
60°	6275.9	5601.6	3800.1	1166.1	794.8	819.2	867.9	876.4	825.3	724.2	709.6
62.5°	6222.4	5551.7	3416.7	821.6	709.6	759.5	805.8	805.8	735.2	641.5	631.7
65°	6128.6	5354.5	2673.0	647.6	664.6	715.7	758.3	729.1	668.2	580.6	574.5
67.5°	5890.1	4873.7	1595.8	583.0	632.9	681.6	712.1	668.2	611.0	524.6	514.9
70°	5204.8	3884.1	607.4	552.6	601.3	635.4	654.9	609.8	553.8	467.4	458.9
72.5°	4132.4	2429.5	385.9	514.9	561.1	591.6	603.7	551.4	462.5	363.9	354.2
75°	2486.8	693.8	334.7	445.5	494.2	546.5	525.8	457.7	390.7	305.5	299.4
77.5°	629.3	210.6	298.2	359.1	401.7	463.8	462.5	412.6	340.8	249.5	239.8
80°	150.9	147.3	242.2	265.4	303.1	355.4	350.6	343.3	270.2	172.8	142.4
82.5°	96.2	102.2	164.3	148.5	172.8	206.9	234.9	221.5	202.1	105.9	94.9
85°	64.5	81.6	80.3	56.0	77.9	116.9	152.2	138.8	114.4	65.7	58.4
87.5°	9.7	11.0	14.6	21.9	34.1	57.2	75.5	74.2	56.0	41.4	39.0
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)