

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: P553533

Luminaire Tested: **VERD-G-CA2-140-750-U-T4**

Issue Date: 7/12/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P553533  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2102-155-6)  
Test Lab: INNOVATION CENTER  
Issue Date: 7/12/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: VERD-G-CA2-140-750-U-T4  
Description: VERDEON-G ROADWAY AND AREA LUMINAIRE  
(2) 70 CRI, 5000K, 1290mA LEDS AND TYPE IV OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 20797 lumens  
Efficiency: N/A  
Efficacy: 146.0 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

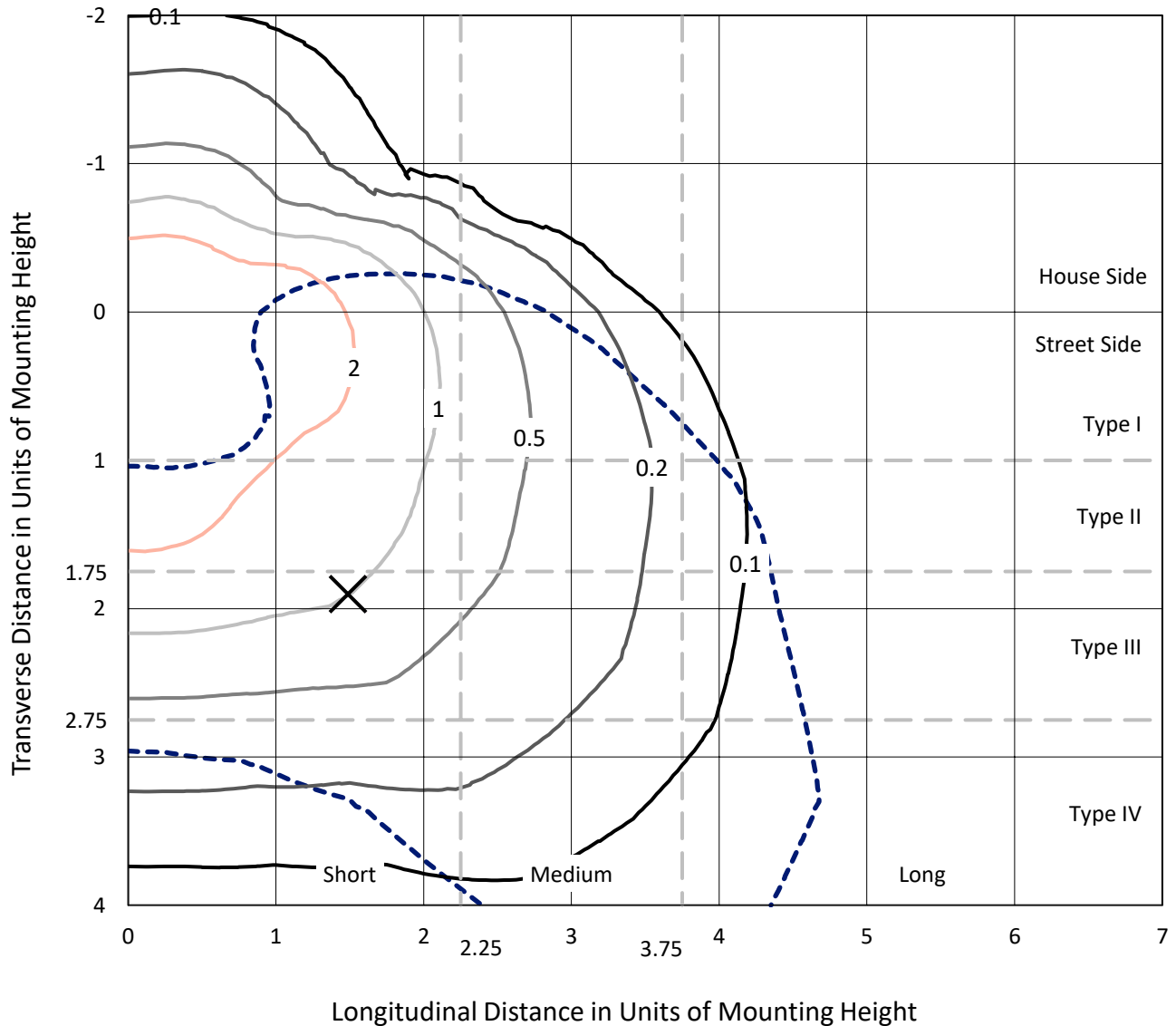
Input Watts (W): 142.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

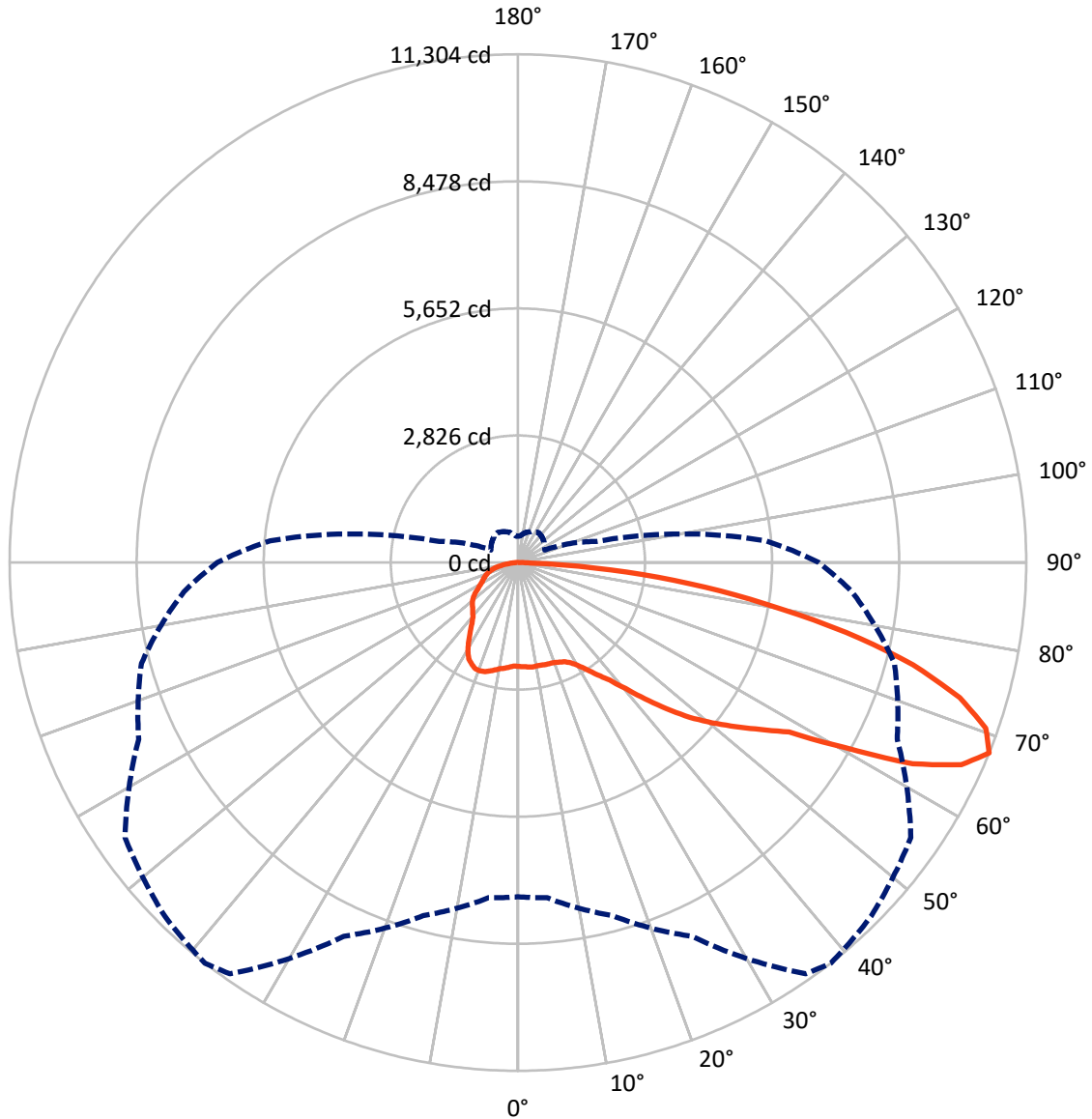
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.9 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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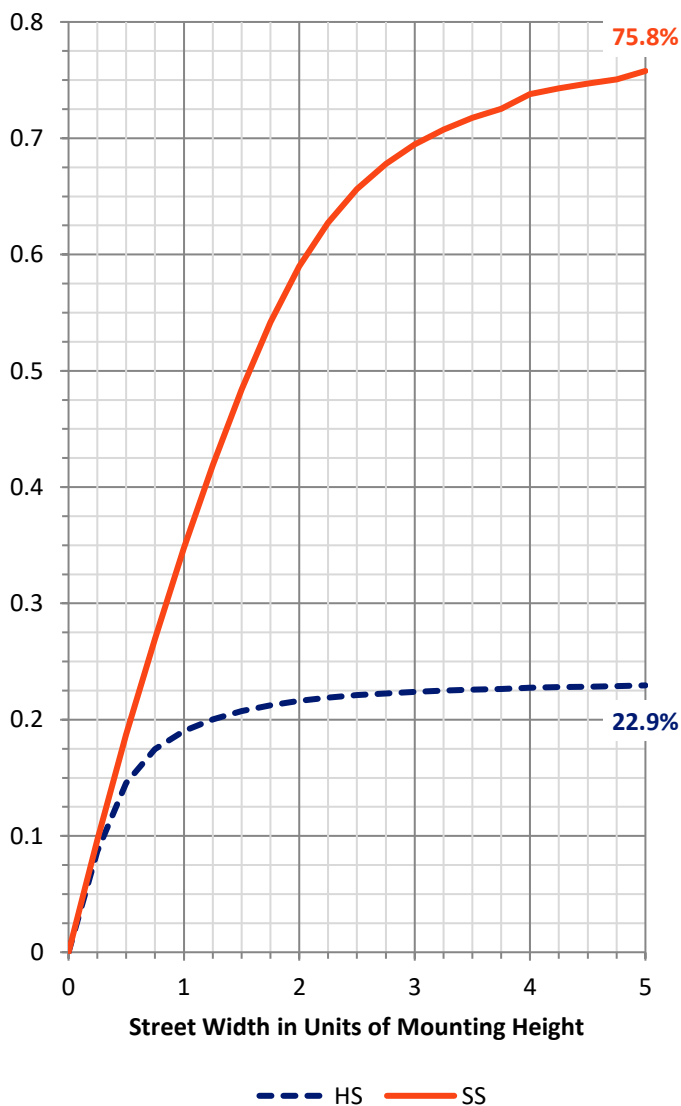
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4825.5	0.0	4825.5
	% Fixture	23.2	0.0	23.2
<b>Street Side</b>	Lumens	15971.5	0.0	15971.5
	% Fixture	76.8	0.0	76.8
<b>Total</b>	Lumens	20797.0	0.0	20797.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	224.2	1.1
10°-20°	691.4	3.3
20°-30°	1171.8	5.6
30°-40°	1795.7	8.6
40°-50°	2958.9	14.2
50°-60°	4229.1	20.3
60°-70°	5268.4	25.3
70°-80°	3754.3	18.1
80°-90°	703.3	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°	20797.0	100.0
0°-180°	20797.0	100.0

**Coefficient of Utilization**



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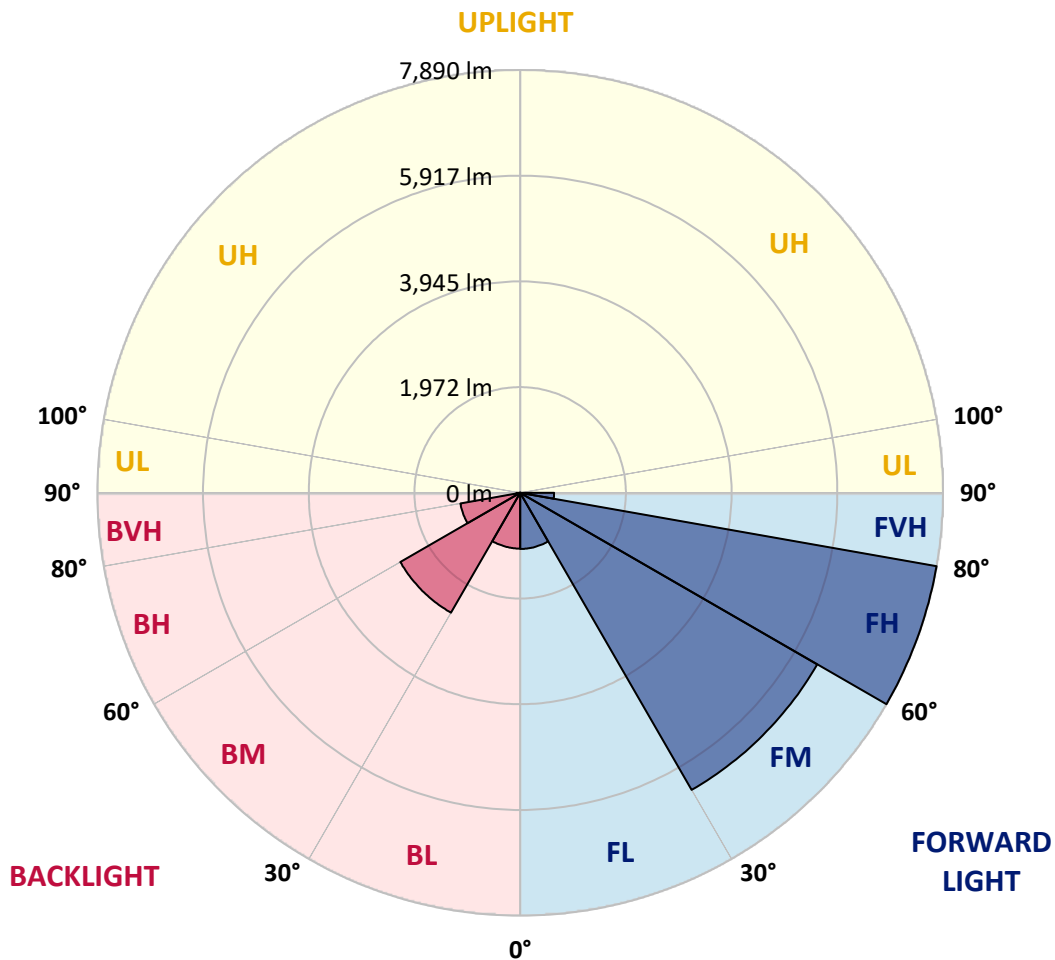
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1046.8	5.0			
FM (30°-60°)	6400.8	30.8			
FH (60°-80°)	7889.9	37.9			G4/12000
FVH (80°-90°)	634.0	3.0			G4/750
BL (0°-30°)	1040.5	5.0	B3/2500		
BM (30°-60°)	2582.9	12.4	B3/5000		
BH (60°-80°)	1132.8	5.4	B3/2500		G3/2500
BVH (80°-90°)	69.3	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°	2310.6	2310.6	2310.6	2310.6	2310.6	2310.6	2310.6	2310.6	2310.6	2310.6	2310.6
2.5°	2353.4	2363.1	2345.1	2342.4	2331.3	2317.5	2320.3	2309.2	2295.4	2300.9	2303.7
5°	2367.2	2367.2	2353.4	2339.6	2334.1	2331.3	2334.1	2321.6	2318.9	2328.6	2320.3
7.5°	2354.8	2363.1	2339.6	2339.6	2329.9	2346.5	2347.9	2332.7	2343.8	2343.8	2342.4
10°	2352.0	2354.8	2345.1	2325.8	2324.4	2334.1	2353.4	2359.0	2364.5	2363.1	2368.6
12.5°	2320.3	2317.5	2298.2	2303.7	2329.9	2339.6	2372.8	2388.0	2408.7	2414.2	2417.0
15°	2280.2	2291.2	2292.6	2309.2	2336.8	2352.0	2385.2	2415.6	2461.2	2472.3	2470.9
17.5°	2284.3	2288.5	2295.4	2305.1	2347.9	2354.8	2408.7	2441.9	2498.5	2537.2	2556.6
20°	2310.6	2302.3	2316.1	2341.0	2364.5	2370.0	2426.7	2477.8	2555.2	2606.3	2628.4
22.5°	2354.8	2356.2	2363.1	2363.1	2379.7	2404.6	2457.1	2497.1	2592.5	2664.4	2703.1
25°	2396.3	2399.0	2407.3	2404.6	2432.2	2443.3	2493.0	2553.8	2663.0	2747.3	2821.9
27.5°	2458.5	2466.7	2461.2	2462.6	2516.5	2527.6	2549.7	2631.2	2743.1	2856.5	2989.1
30°	2574.5	2574.5	2569.0	2574.5	2632.6	2660.2	2667.1	2747.3	2838.5	2975.3	3175.7
32.5°	2741.8	2743.1	2708.6	2736.2	2801.2	2849.5	2870.3	2997.4	3099.7	3166.0	3424.4
35°	3099.7	3084.5	3048.5	2968.4	3009.8	3069.3	3135.6	3297.3	3522.5	3769.9	4029.7
37.5°	3648.3	3646.9	3519.8	3359.5	3287.6	3318.0	3410.6	3652.4	4004.8	4622.6	4852.0
40°	4257.7	4272.9	4089.1	3888.8	3677.3	3680.1	3703.6	4006.2	4516.2	5408.9	5529.1
42.5°	4865.8	4840.9	4637.8	4445.7	4158.2	4140.3	4078.1	4364.1	5051.0	6037.7	6054.2
45°	5407.5	5395.1	5169.8	4975.0	4704.1	4635.0	4564.5	4746.9	5560.9	6546.2	6437.0
47.5°	5916.0	5932.6	5621.7	5446.2	5178.1	5143.5	5062.0	5178.1	6065.3	6945.6	6748.0
50°	6495.1	6502.0	6130.2	5913.3	5648.0	5603.7	5571.9	5719.8	6586.3	7327.0	7064.4
52.5°	7143.2	7007.8	6645.7	6347.2	6092.9	6059.8	6041.8	6196.6	7157.0	7661.4	7273.1
55°	7958.5	7777.5	7407.2	6912.4	6542.1	6547.6	6485.4	6666.4	7637.9	7892.2	7476.2
57.5°	8315.1	8356.5	8287.4	7836.9	7187.4	7107.3	6953.9	7093.5	8095.4	8163.1	7636.6
60°	8986.7	9147.0	8997.8	8746.2	8554.2	8344.1	7595.1	7647.6	8512.7	8462.9	7654.5
62.5°	9032.3	9087.6	9558.8	9598.9	9785.5	9855.9	9235.4	8276.4	8891.3	8613.6	7715.3
65°	8584.6	8646.7	9214.7	9713.6	10740.4	10837.1	10640.9	9427.5	9198.1	8695.1	7667.0
67.5°	7433.4	7484.5	8129.9	9171.9	11164.6	11304.2	11113.5	10665.7	9305.9	8667.5	7454.1
70°	6358.3	6387.3	6923.5	8381.4	10873.0	11037.5	10961.5	10712.7	9301.8	8504.4	6984.3
72.5°	4994.3	5078.6	5511.1	6951.1	10136.5	10274.7	10296.8	10423.9	9065.5	7968.2	5934.0
75°	3622.0	3667.6	4158.2	5400.6	8749.0	9079.3	9467.6	9947.1	8176.9	6764.6	4387.6
77.5°	2552.4	2596.6	3058.2	4094.7	7081.0	7456.9	8158.9	8440.8	6634.7	5070.3	2309.2
80°	1680.4	1674.9	2114.4	3030.6	5313.5	5577.5	6098.5	5721.2	3850.1	2204.2	251.5
82.5°	986.7	1042.0	1354.3	2082.6	3713.2	3859.7	3845.9	3012.6	1528.4	228.0	128.5
85°	569.4	590.1	798.8	1234.1	2046.6	2067.4	1851.8	1169.1	378.6	102.3	76.0
87.5°	254.3	244.6	317.8	407.7	373.1	277.8	172.7	48.4	29.0	19.3	12.4
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°	2310.6	2310.6	2310.6	2310.6	2310.6	2310.6	2310.6	2310.6	2310.6	2310.6	2310.6
2.5°	2292.6	2285.7	2320.3	2300.9	2317.5	2307.8	2299.5	2310.6	2331.3	2349.3	2338.2
5°	2310.6	2314.7	2342.4	2318.9	2341.0	2336.8	2325.8	2338.2	2371.4	2388.0	2386.6
7.5°	2331.3	2334.1	2363.1	2353.4	2363.1	2354.8	2372.8	2364.5	2393.5	2404.6	2397.7
10°	2356.2	2360.3	2386.6	2388.0	2392.1	2386.6	2394.9	2399.0	2415.6	2437.7	2423.9
12.5°	2410.1	2419.8	2439.1	2459.8	2457.1	2435.0	2441.9	2419.8	2435.0	2441.9	2452.9
15°	2484.7	2508.2	2519.3	2548.3	2522.0	2509.6	2483.3	2439.1	2425.3	2418.4	2407.3
17.5°	2564.9	2587.0	2607.7	2645.0	2602.2	2569.0	2523.4	2440.5	2378.3	2356.2	2346.5
20°	2654.7	2675.4	2712.7	2737.6	2674.0	2602.2	2528.9	2407.3	2284.3	2200.0	2209.7
22.5°	2755.6	2801.2	2826.0	2819.1	2729.3	2631.2	2505.4	2320.3	2162.7	2037.0	2028.7
25°	2895.1	2921.4	2931.1	2867.5	2759.7	2610.5	2426.7	2216.6	1996.9	1855.9	1835.2
27.5°	3041.6	3069.3	3018.1	2899.3	2750.0	2562.1	2338.2	2039.7	1804.8	1669.4	1654.2
30°	3229.6	3222.7	3077.6	2889.6	2694.8	2446.0	2176.5	1858.7	1641.7	1516.0	1509.1
32.5°	3434.1	3383.0	3125.9	2842.6	2589.7	2294.0	1970.6	1687.3	1520.1	1394.4	1388.8
35°	3917.8	3682.8	3196.4	2783.2	2435.0	2084.0	1779.9	1558.8	1423.4	1281.1	1253.4
37.5°	4628.1	4249.4	3341.5	2722.4	2258.1	1876.7	1621.0	1463.5	1334.9	1182.9	1156.7
40°	5290.0	4825.7	3595.8	2676.8	2099.2	1709.4	1511.8	1397.1	1272.8	1120.7	1087.6
42.5°	5759.9	5273.4	3901.2	2602.2	1940.2	1576.8	1466.2	1372.3	1256.2	1115.2	1089.0
45°	6138.5	5660.4	4203.8	2517.9	1753.7	1463.5	1419.2	1351.5	1235.4	1098.6	1068.2
47.5°	6405.3	5903.6	4413.9	2422.5	1575.4	1394.4	1379.2	1318.4	1203.7	1075.1	1055.8
50°	6680.3	6175.9	4557.6	2324.4	1415.1	1341.9	1323.9	1243.7	1138.7	1024.0	1003.3
52.5°	6859.9	6308.5	4640.5	2305.1	1278.3	1270.0	1247.9	1171.9	1072.4	948.0	923.1
55°	6996.7	6426.0	4628.1	2191.7	1155.3	1176.0	1162.2	1105.5	1018.5	896.9	880.3
57.5°	7029.9	6443.9	4514.8	1840.7	1039.2	1050.3	1057.2	1068.2	983.9	883.1	855.4
60°	7125.2	6359.6	4314.4	1323.9	902.4	930.0	985.3	995.0	936.9	822.2	805.7
62.5°	7064.4	6303.0	3879.1	932.8	805.7	862.3	914.8	914.8	834.7	728.3	717.2
65°	6958.0	6079.1	3034.7	735.2	754.5	812.6	860.9	827.8	758.7	659.2	652.3
67.5°	6687.2	5533.3	1811.7	661.9	718.6	773.9	808.4	758.7	693.7	595.6	584.6
70°	5909.1	4409.7	689.6	627.4	682.7	721.4	743.5	692.3	628.8	530.7	521.0
72.5°	4691.7	2758.3	438.1	584.6	637.1	671.6	685.4	626.0	525.1	413.2	402.1
75°	2823.3	787.7	380.0	505.8	561.1	620.5	597.0	519.6	443.6	346.9	340.0
77.5°	714.5	239.1	338.6	407.7	456.0	526.5	525.1	468.5	386.9	283.3	272.2
80°	171.4	167.2	275.0	301.3	344.1	403.5	398.0	389.7	306.8	196.2	161.7
82.5°	109.2	116.1	186.6	168.6	196.2	234.9	266.7	251.5	229.4	120.2	107.8
85°	73.2	92.6	91.2	63.6	88.4	132.7	172.7	157.5	129.9	74.6	66.3
87.5°	11.1	12.4	16.6	24.9	38.7	65.0	85.7	84.3	63.6	47.0	44.2
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)