

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: P509969

Luminaire Tested: **VERD-M-CA3-180-722-U-T4**

Issue Date: 4/6/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P509969  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2103-181-6)  
Test Lab: INNOVATION CENTER  
Issue Date: 4/6/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: VERD-M-CA3-180-722-U-T4  
Description: VERDEON-M ROADWAY AND AREA LUMINAIRE  
(3) 70 CRI, 2200K, 1120mA LEDS AND TYPE IV OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 20763 lumens  
Efficiency: N/A  
Efficacy: 113.4 lumens/watt  
Luminous Opening: Rectangular (W 1.35' x L: 1.58' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G4

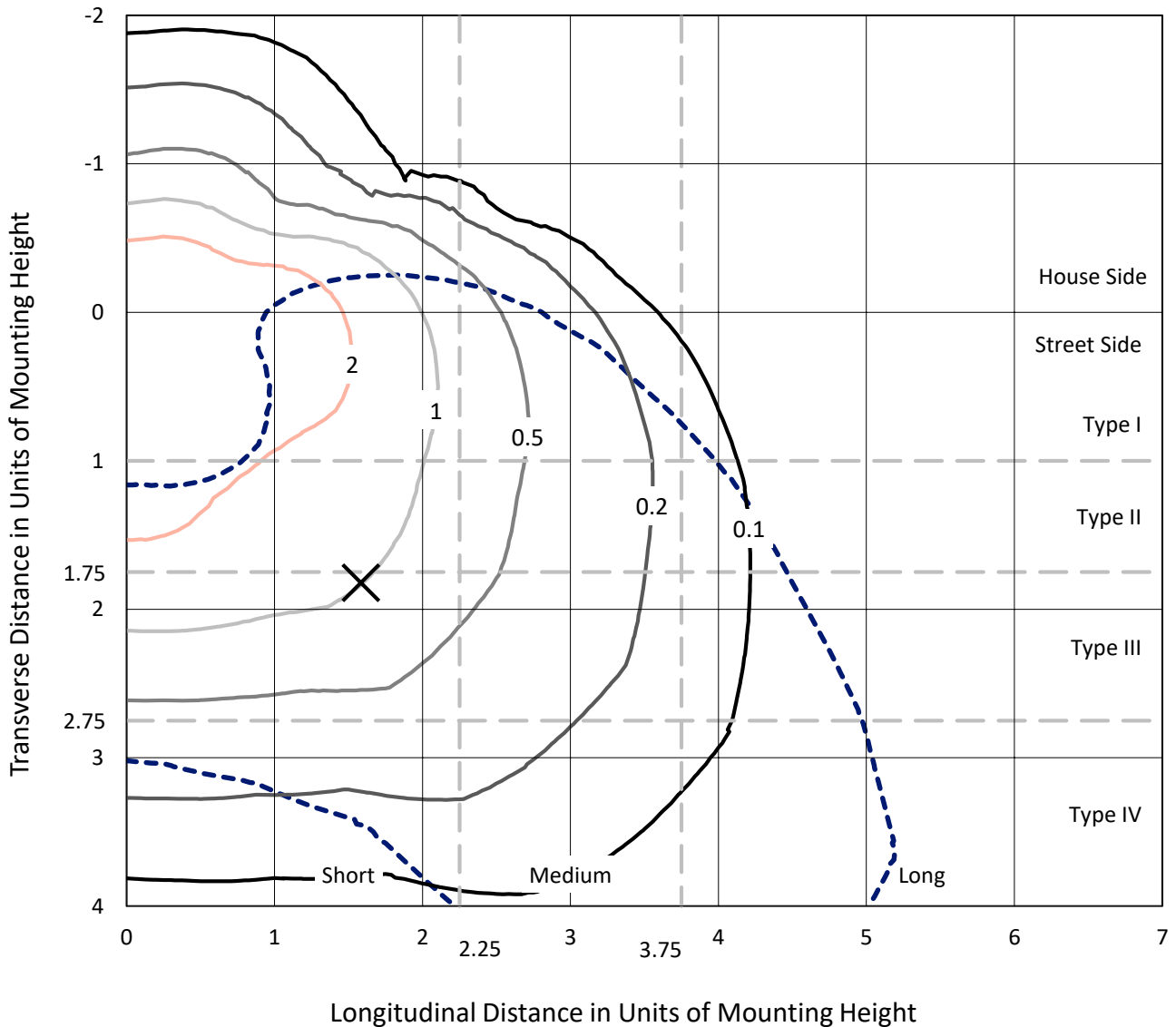
Input Watts (W): 183.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

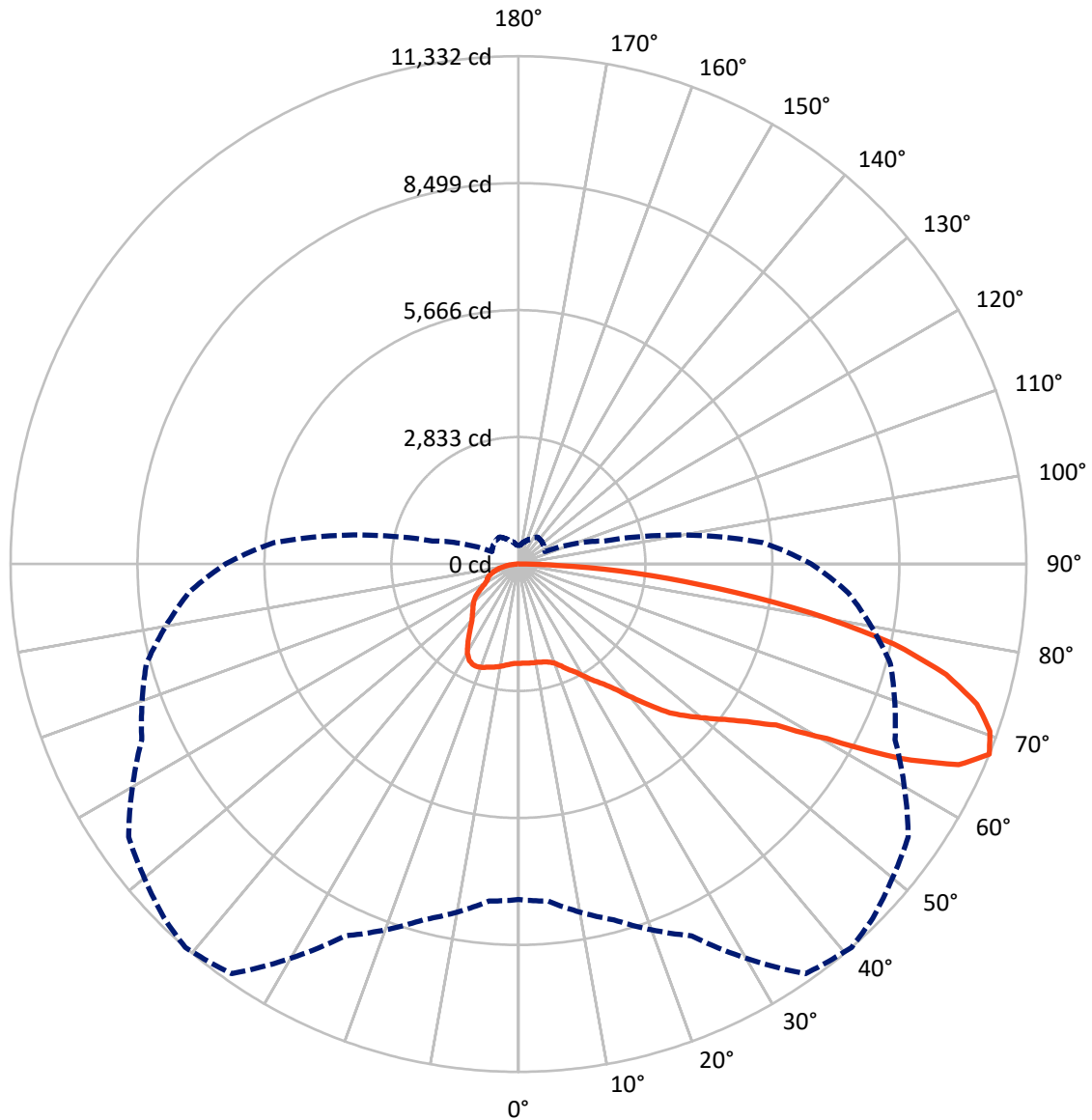
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.7 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 41-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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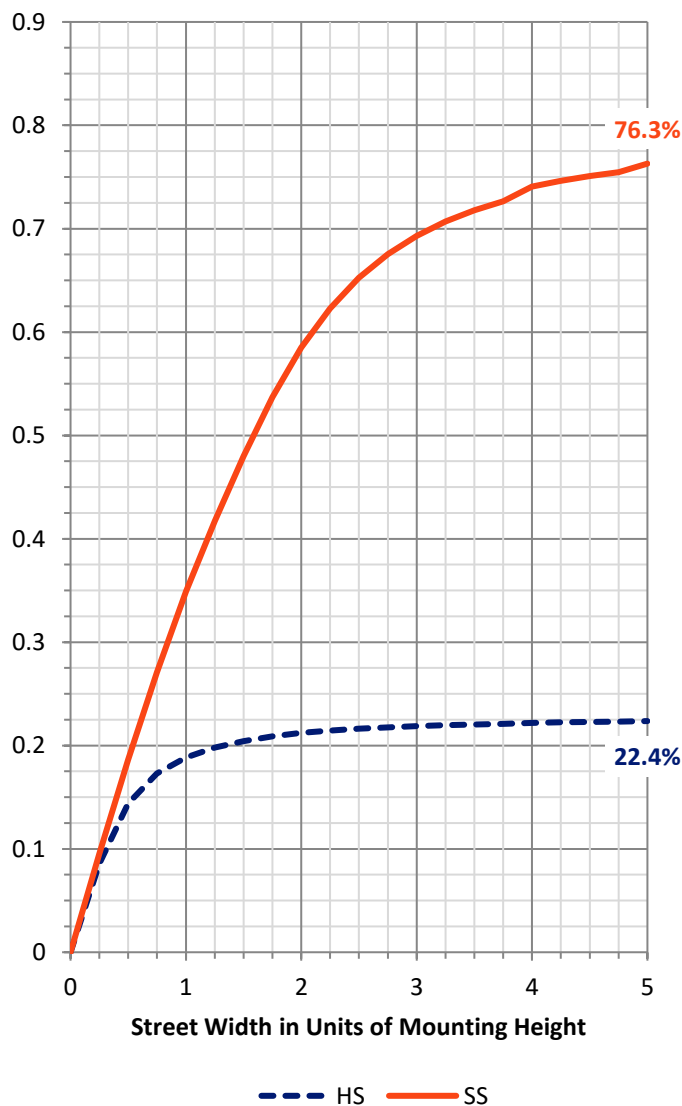
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4698.6	0.0	4698.6
	% Fixture	22.6	0.0	22.6
<b>Street Side</b>	Lumens	16064.4	0.0	16064.4
	% Fixture	77.4	0.0	77.4
<b>Total</b>	Lumens	20763.0	0.0	20763.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	214.2	1.0
10°-20°	664.4	3.2
20°-30°	1188.1	5.7
30°-40°	1862.9	9.0
40°-50°	2888.8	13.9
50°-60°	4072.5	19.6
60°-70°	5191.5	25.0
70°-80°	3885.0	18.7
80°-90°	795.7	3.8
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°	20763.0	100.0
0°-180°	20763.0	100.0

**Coefficient of Utilization**



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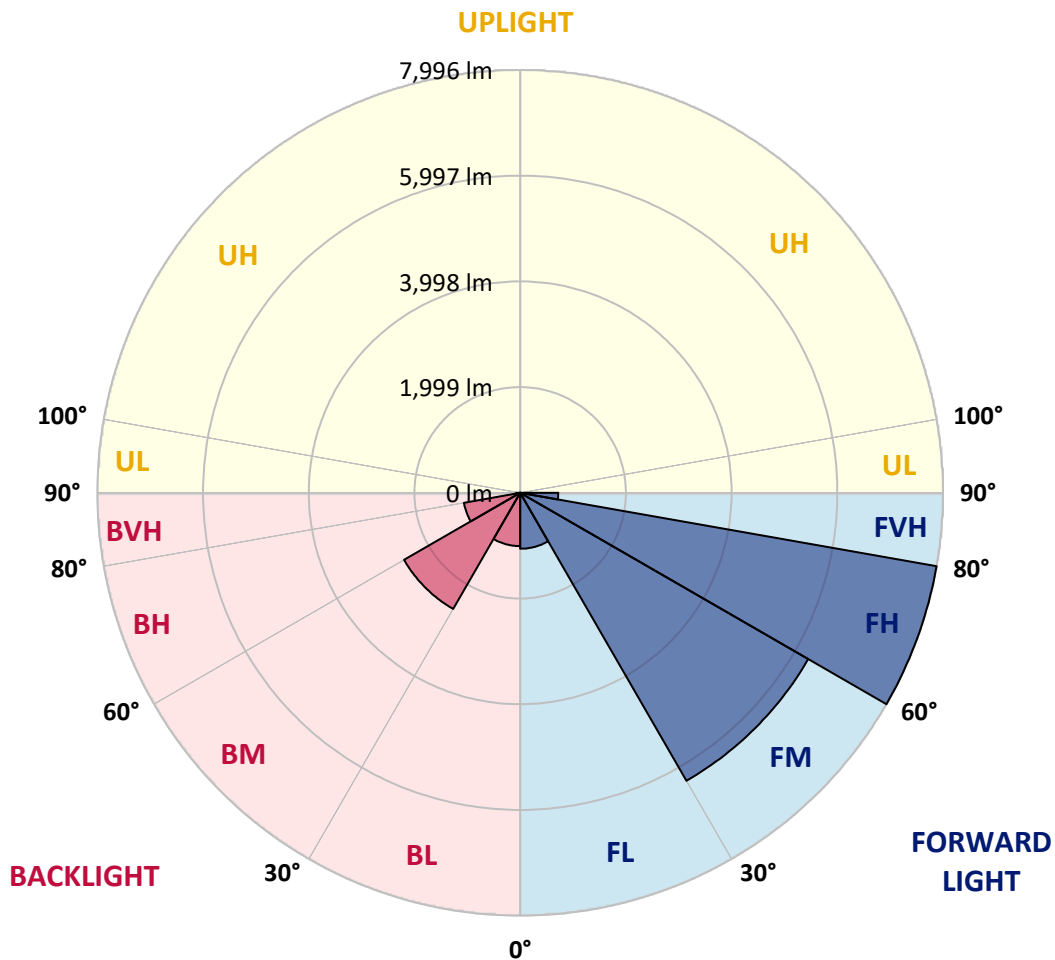
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1057.9	5.1			
FM (30°-60°)	6288.9	30.3			
FH (60°-80°)	7996.2	38.5			G4/12000
FVH (80°-90°)	721.3	3.5			G4/750
BL (0°-30°)	1008.8	4.9	B3/2500		
BM (30°-60°)	2535.3	12.2	B3/5000		
BH (60°-80°)	1080.2	5.2	B3/2500		G3/2500
BVH (80°-90°)	74.3	0.4			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°	41°	45°	55°	65°	75°	85°
0°	2216.8	2216.8	2216.8	2216.8	2216.8	2216.8	2216.8	2216.8	2216.8	2216.8	2216.8
2.5°	2189.6	2214.9	2211.2	2206.5	2214.0	2214.9	2193.3	2201.8	2206.5	2214.0	2226.2
5°	2195.2	2220.6	2218.7	2210.2	2215.9	2218.7	2199.0	2214.0	2214.0	2216.8	2230.9
7.5°	2183.0	2207.4	2207.4	2204.6	2216.8	2228.1	2210.2	2223.4	2230.9	2238.4	2247.8
10°	2171.7	2192.4	2199.9	2198.0	2226.2	2229.0	2216.8	2248.8	2261.0	2268.5	2279.8
12.5°	2159.5	2184.9	2195.2	2205.5	2235.6	2245.9	2239.4	2272.3	2297.6	2310.8	2323.0
15°	2153.8	2182.0	2199.0	2214.0	2246.9	2265.7	2265.7	2315.5	2345.6	2362.5	2384.1
17.5°	2193.3	2222.4	2235.6	2247.8	2277.9	2303.3	2301.4	2359.6	2403.8	2430.1	2469.6
20°	2291.0	2325.8	2333.3	2338.0	2356.8	2366.2	2363.4	2426.4	2487.4	2537.3	2581.4
22.5°	2461.1	2481.8	2485.6	2466.8	2471.5	2479.0	2474.3	2509.1	2578.6	2636.9	2715.8
25°	2600.2	2633.1	2623.7	2596.5	2600.2	2610.6	2596.5	2650.0	2699.8	2775.9	2855.8
27.5°	2746.8	2771.2	2760.9	2744.0	2740.2	2732.7	2729.9	2798.5	2871.8	2931.9	3050.3
30°	2925.4	2938.5	2908.4	2900.9	2907.5	2912.2	2894.3	2981.7	3048.5	3134.9	3294.7
32.5°	3226.1	3238.3	3195.1	3079.5	3082.3	3103.9	3088.9	3198.8	3324.7	3430.0	3592.6
35°	3609.5	3609.5	3575.6	3413.1	3290.0	3290.9	3294.7	3449.7	3683.7	3919.6	4086.9
37.5°	3997.6	4010.7	3946.8	3798.4	3642.4	3559.7	3490.1	3689.4	3995.7	4522.0	4771.0
40°	4401.7	4422.3	4326.5	4190.2	4010.7	3916.8	3836.0	3957.2	4370.7	5118.7	5316.0
42.5°	4755.0	4784.1	4685.5	4541.7	4416.7	4310.5	4188.3	4237.2	4783.2	5685.3	5797.2
45°	5083.9	5099.9	5016.2	4897.8	4794.5	4736.2	4650.7	4707.1	5254.9	6239.8	6219.1
47.5°	5326.4	5349.8	5273.7	5209.8	5103.6	5068.9	5067.9	5223.0	5785.9	6681.4	6585.6
50°	5720.1	5702.2	5531.2	5453.2	5388.4	5399.7	5426.9	5694.7	6409.9	7107.1	6893.8
52.5°	6380.7	6347.8	5968.2	5805.6	5725.7	5762.4	5776.5	6122.3	7039.5	7474.6	7148.5
55°	7234.9	7129.7	6853.4	6417.4	6166.5	6201.2	6185.3	6581.8	7543.2	7825.1	7337.4
57.5°	7799.7	7898.4	7765.9	7516.8	6893.8	6780.1	6742.5	7036.7	8009.3	8160.6	7532.8
60°	8290.2	8453.8	8664.3	8504.5	8336.3	7910.6	7560.1	7553.5	8419.9	8384.2	7611.8
62.5°	8808.0	8894.5	9218.7	9317.4	9629.3	9551.4	9081.5	8207.5	8830.6	8547.7	7657.8
65°	8284.6	8400.2	8990.3	9528.8	10683.7	10796.5	10643.3	9423.5	9115.3	8631.4	7592.0
67.5°	7487.7	7551.6	8219.8	9153.8	11161.1	11332.1	11178.0	10617.0	9273.2	8594.7	7389.0
70°	6466.2	6541.4	7179.5	8453.8	11136.7	11159.2	11099.1	10726.9	9210.2	8422.7	6877.8
72.5°	5242.7	5337.6	5898.6	7221.8	10602.9	10700.6	10605.7	10508.9	9033.6	7941.6	5997.3
75°	3966.6	4092.5	4593.4	5757.7	9370.0	9862.4	9874.6	10173.4	8347.6	6808.3	4352.8
77.5°	2705.5	2825.7	3300.3	4386.6	7778.1	8564.6	8769.5	9096.5	6974.6	5031.3	2374.7
80°	1523.3	1512.0	2114.4	3134.0	5932.5	6623.2	6880.7	6867.5	4897.8	2583.3	484.0
82.5°	703.9	705.7	1081.6	2000.7	4016.4	4472.1	4576.5	3983.5	1718.8	437.9	154.1
85°	350.5	354.3	520.6	1003.6	2267.6	2619.9	2490.3	1657.7	368.4	127.8	92.1
87.5°	139.1	133.4	205.8	412.5	818.5	867.4	757.4	331.7	66.7	45.1	31.0
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°	2216.8	2216.8	2216.8	2216.8	2216.8	2216.8	2216.8	2216.8	2216.8	2216.8	2216.8
2.5°	2223.4	2225.3	2233.7	2216.8	2221.5	2217.7	2214.9	2230.0	2229.0	2231.8	2227.1
5°	2230.0	2234.7	2243.1	2235.6	2243.1	2239.4	2242.2	2262.9	2265.7	2264.7	2264.7
7.5°	2247.8	2252.5	2268.5	2259.1	2276.0	2271.3	2272.3	2292.0	2295.7	2290.1	2288.2
10°	2285.4	2289.2	2311.7	2309.8	2316.4	2312.7	2308.9	2317.4	2315.5	2307.0	2303.3
12.5°	2328.6	2339.0	2364.3	2365.3	2373.7	2354.9	2335.2	2332.4	2326.8	2313.6	2310.8
15°	2393.5	2405.7	2444.2	2434.8	2429.2	2388.8	2355.9	2329.6	2307.0	2295.7	2285.4
17.5°	2486.5	2507.2	2560.7	2531.6	2490.3	2431.1	2373.7	2316.4	2268.5	2228.1	2212.1
20°	2604.9	2628.4	2673.5	2635.0	2572.0	2483.7	2390.7	2287.3	2183.0	2093.7	2080.5
22.5°	2745.9	2783.5	2816.4	2728.0	2635.0	2523.2	2390.7	2242.2	2069.3	1935.8	1902.9
25°	2910.3	2939.5	2929.1	2805.1	2670.7	2529.7	2364.3	2162.3	1918.0	1762.9	1736.6
27.5°	3088.9	3102.0	3022.2	2841.7	2674.5	2491.2	2290.1	2020.4	1741.3	1619.1	1593.8
30°	3308.8	3269.3	3117.1	2864.3	2636.9	2405.7	2157.6	1812.7	1597.5	1490.4	1461.3
32.5°	3545.6	3473.2	3184.7	2848.3	2554.2	2262.9	1952.7	1666.1	1501.7	1371.1	1346.6
35°	3996.6	3790.8	3283.4	2800.4	2410.4	2072.1	1754.5	1553.4	1400.2	1260.2	1237.6
37.5°	4605.6	4247.6	3421.5	2733.7	2240.3	1887.0	1606.9	1433.1	1300.6	1155.9	1120.2
40°	5079.2	4709.0	3643.3	2662.2	2083.4	1711.2	1499.8	1370.1	1234.8	1080.7	1049.7
42.5°	5530.3	5130.9	3915.8	2582.4	1921.7	1589.1	1452.8	1356.0	1216.9	1060.0	1030.9
45°	5928.7	5472.0	4150.8	2502.5	1739.4	1476.3	1418.0	1328.8	1191.6	1033.7	1005.5
47.5°	6251.0	5765.2	4354.7	2416.0	1574.0	1390.8	1372.9	1279.0	1142.7	980.1	946.3
50°	6542.4	6013.3	4495.6	2323.9	1412.4	1321.3	1298.7	1187.8	1045.9	902.1	880.5
52.5°	6721.8	6181.5	4580.2	2339.0	1259.2	1243.3	1206.6	1092.9	961.3	838.2	810.0
55°	6909.8	6340.3	4579.3	2254.4	1131.4	1125.8	1091.0	1003.6	900.3	796.9	780.0
57.5°	6986.8	6354.4	4493.8	1856.9	1018.7	983.0	975.4	929.4	839.2	741.4	722.6
60°	7038.5	6292.4	4332.1	1267.7	876.8	851.4	888.0	857.0	775.3	672.8	654.0
62.5°	6987.8	6224.7	3908.3	915.3	768.7	782.8	817.6	783.7	698.2	605.2	589.2
65°	6866.6	5966.3	3086.1	713.3	720.8	751.8	779.0	722.6	565.7	473.6	464.2
67.5°	6535.8	5474.8	1985.6	654.0	693.5	725.5	734.9	611.8	512.1	423.8	413.5
70°	5839.4	4395.1	764.9	616.5	666.3	680.4	641.8	561.0	470.8	394.7	385.3
72.5°	4568.0	2885.9	441.7	563.8	608.0	594.8	595.8	503.7	424.8	352.4	344.9
75°	2838.9	1045.0	392.8	501.8	515.0	539.4	508.4	437.0	365.6	322.3	312.9
77.5°	938.8	297.0	363.7	432.3	461.4	443.5	425.7	373.1	312.9	279.1	274.4
80°	227.4	222.7	326.1	338.3	361.8	331.7	329.8	310.1	264.1	244.3	239.6
82.5°	140.0	159.8	259.4	210.5	241.5	244.3	278.2	255.6	192.6	200.2	193.6
85°	86.5	123.1	136.3	101.5	102.4	137.2	166.3	154.1	115.6	109.0	108.1
87.5°	29.1	25.4	29.1	21.6	29.1	49.8	75.2	71.4	47.9	32.9	31.0
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)