

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: P509849

Luminaire Tested: **VERD-M-CA3-150-740-U-T4**

Issue Date: 4/6/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P509849  
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-CA3-150-740-U-T4  
Description: VERDEON-M ROADWAY AND AREA LUMINAIRE  
(3) 70 CRI, 4000K, 940mA LEDS AND TYPE IV OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 22095 lumens  
Efficiency: N/A  
Efficacy: 144.4 lumens/watt  
Luminous Opening: Rectangular (W 1.35' x L: 1.58' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G5

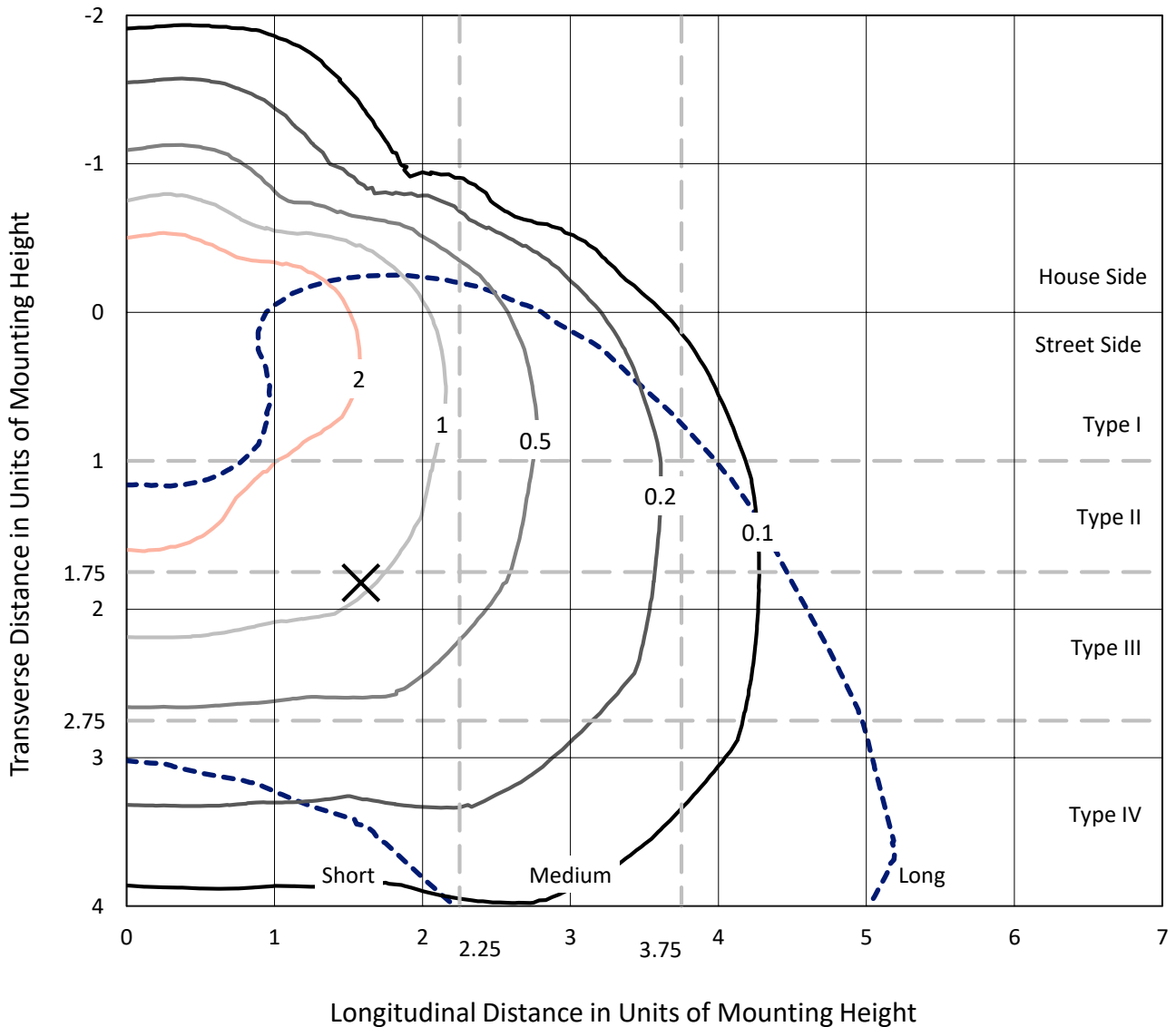
Input Watts (W): 153  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

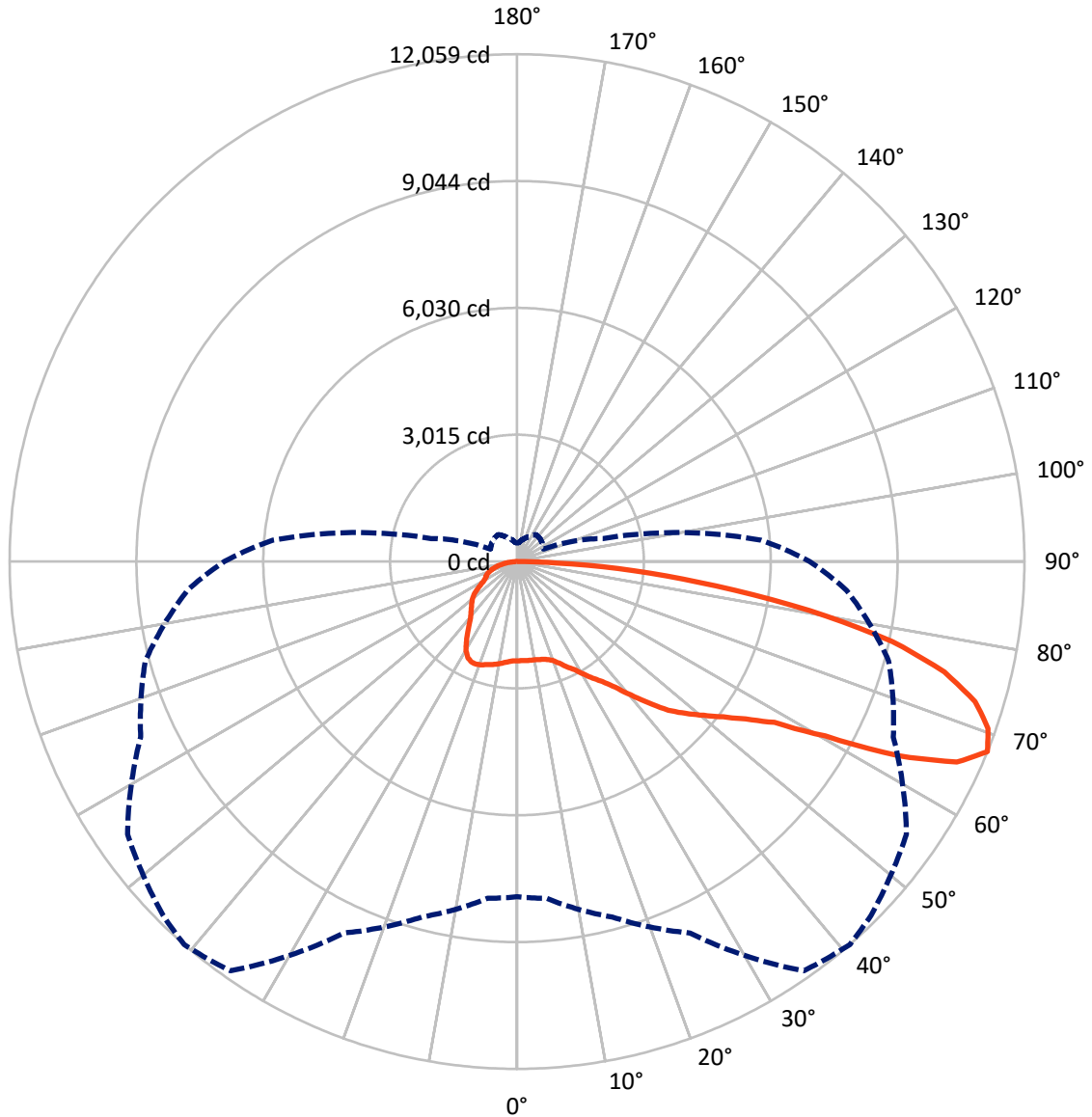
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4 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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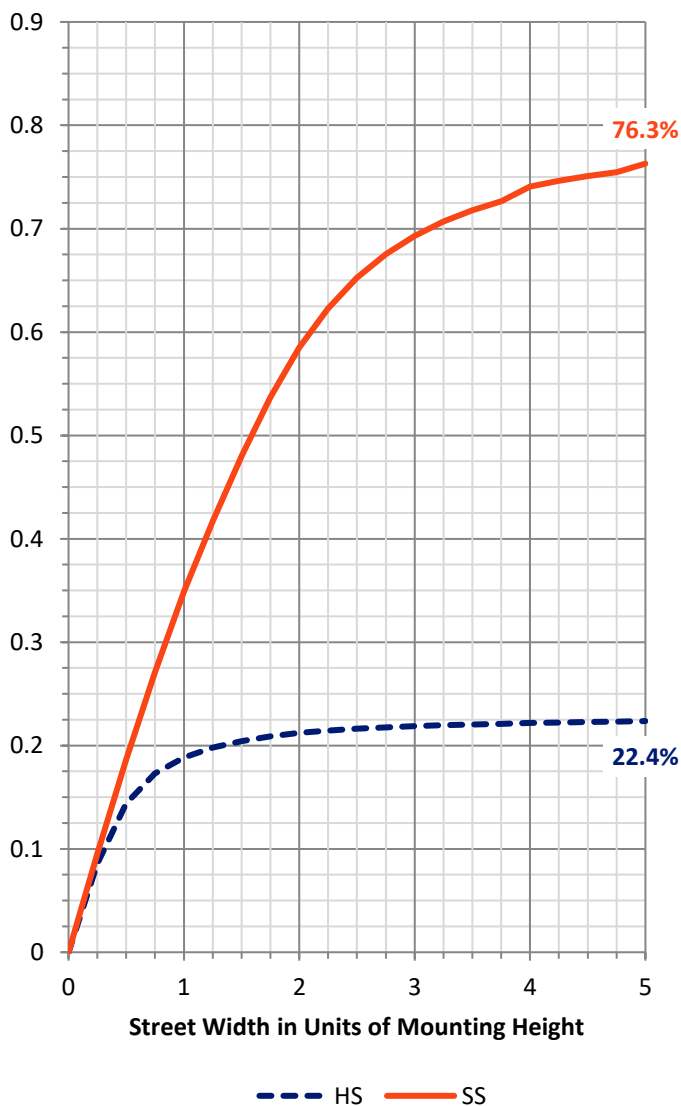
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5000.0	0.0	5000.0
	% Fixture	22.6	0.0	22.6
<b>Street Side</b>	Lumens	17095.0	0.0	17095.0
	% Fixture	77.4	0.0	77.4
<b>Total</b>	Lumens	22095.0	0.0	22095.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	228.0	1.0
10°-20°	707.0	3.2
20°-30°	1264.3	5.7
30°-40°	1982.4	9.0
40°-50°	3074.1	13.9
50°-60°	4333.8	19.6
60°-70°	5524.5	25.0
70°-80°	4134.2	18.7
80°-90°	846.7	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°	22095.0	100.0
0°-180°	22095.0	100.0

**Coefficient of Utilization**



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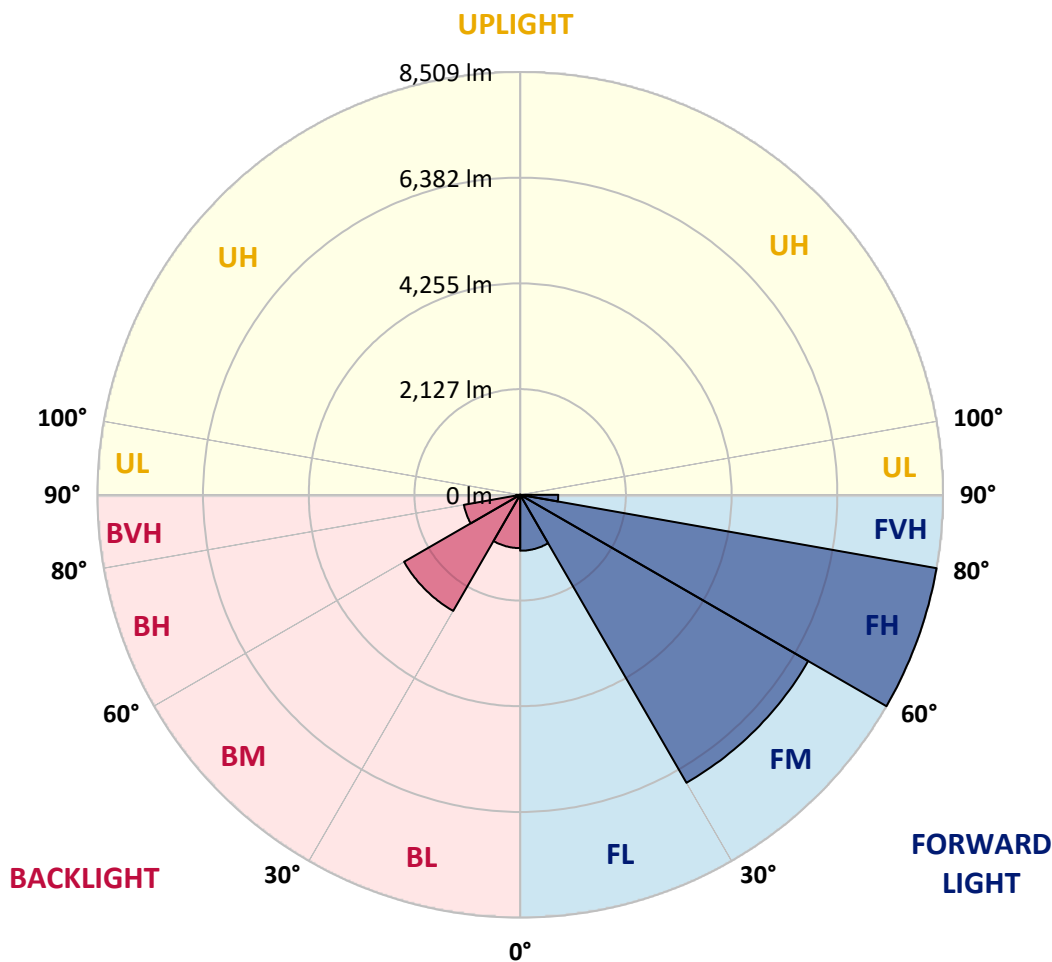
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1125.7	5.1			
FM (30°-60°)	6692.4	30.3			
FH (60°-80°)	8509.2	38.5			G4/12000
FVH (80°-90°)	767.6	3.5			G5
BL (0°-30°)	1073.5	4.9	B3/2500		
BM (30°-60°)	2697.9	12.2	B3/5000		
BH (60°-80°)	1149.5	5.2	B3/2500		G3/2500
BVH (80°-90°)	79.1	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-G5**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	41°	45°	55°	65°	75°	85°
0°	2359.0	2359.0	2359.0	2359.0	2359.0	2359.0	2359.0	2359.0	2359.0	2359.0	2359.0
2.5°	2330.0	2357.0	2353.0	2348.0	2356.0	2357.0	2334.0	2343.0	2348.0	2356.0	2369.0
5°	2336.0	2363.0	2361.0	2352.0	2358.0	2361.0	2340.0	2356.0	2356.0	2359.0	2374.0
7.5°	2323.0	2349.0	2349.0	2346.0	2359.0	2371.0	2352.0	2366.0	2374.0	2382.0	2392.0
10°	2311.0	2333.0	2341.0	2339.0	2369.0	2372.0	2359.0	2393.0	2406.0	2414.0	2426.0
12.5°	2298.0	2325.0	2336.0	2347.0	2379.0	2390.0	2383.0	2418.0	2445.0	2459.0	2472.0
15°	2292.0	2322.0	2340.0	2356.0	2391.0	2411.0	2411.0	2464.0	2496.0	2514.0	2537.0
17.5°	2334.0	2365.0	2379.0	2392.0	2424.0	2451.0	2449.0	2511.0	2558.0	2586.0	2628.0
20°	2438.0	2475.0	2483.0	2488.0	2508.0	2518.0	2515.0	2582.0	2647.0	2700.0	2747.0
22.5°	2619.0	2641.0	2645.0	2625.0	2630.0	2638.0	2633.0	2670.0	2744.0	2806.0	2890.0
25°	2767.0	2802.0	2792.0	2763.0	2767.0	2778.0	2763.0	2820.0	2873.0	2954.0	3039.0
27.5°	2923.0	2949.0	2938.0	2920.0	2916.0	2908.0	2905.0	2978.0	3056.0	3120.0	3246.0
30°	3113.0	3127.0	3095.0	3087.0	3094.0	3099.0	3080.0	3173.0	3244.0	3336.0	3506.0
32.5°	3433.0	3446.0	3400.0	3277.0	3280.0	3303.0	3287.0	3404.0	3538.0	3650.0	3823.0
35°	3841.0	3841.0	3805.0	3632.0	3501.0	3502.0	3506.0	3671.0	3920.0	4171.0	4349.0
37.5°	4254.0	4268.0	4200.0	4042.0	3876.0	3788.0	3714.0	3926.0	4252.0	4812.0	5077.0
40°	4684.0	4706.0	4604.0	4459.0	4268.0	4168.0	4082.0	4211.0	4651.0	5447.1	5657.1
42.5°	5060.0	5091.0	4986.0	4833.0	4700.0	4587.0	4457.0	4509.0	5090.0	6050.1	6169.1
45°	5410.1	5427.1	5338.1	5212.0	5102.0	5040.0	4949.0	5009.0	5592.1	6640.1	6618.1
47.5°	5668.1	5693.1	5612.1	5544.1	5431.1	5394.1	5393.1	5558.1	6157.1	7110.1	7008.1
50°	6087.1	6068.1	5886.1	5803.1	5734.1	5746.1	5775.1	6060.1	6821.1	7563.1	7336.1
52.5°	6790.1	6755.1	6351.1	6178.1	6093.1	6132.1	6147.1	6515.1	7491.1	7954.1	7607.1
55°	7699.1	7587.1	7293.1	6829.1	6562.1	6599.1	6582.1	7004.1	8027.1	8327.1	7808.1
57.5°	8300.1	8405.1	8264.1	7999.1	7336.1	7215.1	7175.1	7488.1	8523.1	8684.1	8016.1
60°	8822.1	8996.1	9220.1	9050.1	8871.1	8418.1	8045.1	8038.1	8960.1	8922.1	8100.1
62.5°	9373.1	9465.1	9810.1	9915.1	10247.1	10164.1	9664.1	8734.1	9397.1	9096.1	8149.1
65°	8816.1	8939.1	9567.1	10140.1	11369.1	11489.1	11326.1	10028.1	9700.1	9185.1	8079.1
67.5°	7968.1	8036.1	8747.1	9741.1	11877.1	12059.1	11895.1	11298.1	9868.1	9146.1	7863.1
70°	6881.1	6961.1	7640.1	8996.1	11851.1	11875.1	11811.1	11415.1	9801.1	8963.1	7319.1
72.5°	5579.1	5680.1	6277.1	7685.1	11283.1	11387.1	11286.1	11183.1	9613.1	8451.1	6382.1
75°	4221.0	4355.0	4888.0	6127.1	9971.1	10495.1	10508.1	10826.1	8883.1	7245.1	4632.0
77.5°	2879.0	3007.0	3512.0	4668.0	8277.1	9114.1	9332.1	9680.1	7422.1	5354.1	2527.0
80°	1621.0	1609.0	2250.0	3335.0	6313.1	7048.1	7322.1	7308.1	5212.0	2749.0	515.0
82.5°	749.0	751.0	1151.0	2129.0	4274.0	4759.0	4870.0	4239.0	1829.0	466.0	164.0
85°	373.0	377.0	554.0	1068.0	2413.0	2788.0	2650.0	1764.0	392.0	136.0	98.0
87.5°	148.0	142.0	219.0	439.0	871.0	923.0	806.0	353.0	71.0	48.0	33.0
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°	2359.0	2359.0	2359.0	2359.0	2359.0	2359.0	2359.0	2359.0	2359.0	2359.0	2359.0
2.5°	2366.0	2368.0	2377.0	2359.0	2364.0	2360.0	2357.0	2373.0	2372.0	2375.0	2370.0
5°	2373.0	2378.0	2387.0	2379.0	2387.0	2383.0	2386.0	2408.0	2411.0	2410.0	2410.0
7.5°	2392.0	2397.0	2414.0	2404.0	2422.0	2417.0	2418.0	2439.0	2443.0	2437.0	2435.0
10°	2432.0	2436.0	2460.0	2458.0	2465.0	2461.0	2457.0	2466.0	2464.0	2455.0	2451.0
12.5°	2478.0	2489.0	2516.0	2517.0	2526.0	2506.0	2485.0	2482.0	2476.0	2462.0	2459.0
15°	2547.0	2560.0	2601.0	2591.0	2585.0	2542.0	2507.0	2479.0	2455.0	2443.0	2432.0
17.5°	2646.0	2668.0	2725.0	2694.0	2650.0	2587.0	2526.0	2465.0	2414.0	2371.0	2354.0
20°	2772.0	2797.0	2845.0	2804.0	2737.0	2643.0	2544.0	2434.0	2323.0	2228.0	2214.0
22.5°	2922.0	2962.0	2997.0	2903.0	2804.0	2685.0	2544.0	2386.0	2202.0	2060.0	2025.0
25°	3097.0	3128.0	3117.0	2985.0	2842.0	2692.0	2516.0	2301.0	2041.0	1876.0	1848.0
27.5°	3287.0	3301.0	3216.0	3024.0	2846.0	2651.0	2437.0	2150.0	1853.0	1723.0	1696.0
30°	3521.0	3479.0	3317.0	3048.0	2806.0	2560.0	2296.0	1929.0	1700.0	1586.0	1555.0
32.5°	3773.0	3696.0	3389.0	3031.0	2718.0	2408.0	2078.0	1773.0	1598.0	1459.0	1433.0
35°	4253.0	4034.0	3494.0	2980.0	2565.0	2205.0	1867.0	1653.0	1490.0	1341.0	1317.0
37.5°	4901.0	4520.0	3641.0	2909.0	2384.0	2008.0	1710.0	1525.0	1384.0	1230.0	1192.0
40°	5405.1	5011.0	3877.0	2833.0	2217.0	1821.0	1596.0	1458.0	1314.0	1150.0	1117.0
42.5°	5885.1	5460.1	4167.0	2748.0	2045.0	1691.0	1546.0	1443.0	1295.0	1128.0	1097.0
45°	6309.1	5823.1	4417.0	2663.0	1851.0	1571.0	1509.0	1414.0	1268.0	1100.0	1070.0
47.5°	6652.1	6135.1	4634.0	2571.0	1675.0	1480.0	1461.0	1361.0	1216.0	1043.0	1007.0
50°	6962.1	6399.1	4784.0	2473.0	1503.0	1406.0	1382.0	1264.0	1113.0	960.0	937.0
52.5°	7153.1	6578.1	4874.0	2489.0	1340.0	1323.0	1284.0	1163.0	1023.0	892.0	862.0
55°	7353.1	6747.1	4873.0	2399.0	1204.0	1198.0	1161.0	1068.0	958.0	848.0	830.0
57.5°	7435.1	6762.1	4782.0	1976.0	1084.0	1046.0	1038.0	989.0	893.0	789.0	769.0
60°	7490.1	6696.1	4610.0	1349.0	933.0	906.0	945.0	912.0	825.0	716.0	696.0
62.5°	7436.1	6624.1	4159.0	974.0	818.0	833.0	870.0	834.0	743.0	644.0	627.0
65°	7307.1	6349.1	3284.0	759.0	767.0	800.0	829.0	769.0	602.0	504.0	494.0
67.5°	6955.1	5826.1	2113.0	696.0	738.0	772.0	782.0	651.0	545.0	451.0	440.0
70°	6214.1	4677.0	814.0	656.0	709.0	724.0	683.0	597.0	501.0	420.0	410.0
72.5°	4861.0	3071.0	470.0	600.0	647.0	633.0	634.0	536.0	452.0	375.0	367.0
75°	3021.0	1112.0	418.0	534.0	548.0	574.0	541.0	465.0	389.0	343.0	333.0
77.5°	999.0	316.0	387.0	460.0	491.0	472.0	453.0	397.0	333.0	297.0	292.0
80°	242.0	237.0	347.0	360.0	385.0	353.0	351.0	330.0	281.0	260.0	255.0
82.5°	149.0	170.0	276.0	224.0	257.0	260.0	296.0	272.0	205.0	213.0	206.0
85°	92.0	131.0	145.0	108.0	109.0	146.0	177.0	164.0	123.0	116.0	115.0
87.5°	31.0	27.0	31.0	23.0	31.0	53.0	80.0	76.0	51.0	35.0	33.0
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)