

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: P509463

Luminaire Tested: **VERD-G-CA2-100-740-U-T3**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P509463
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2102-155-4)
Test Lab: INNOVATION CENTER
Issue Date: 4/6/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VERD-G-CA2-100-740-U-T3
Description: VERDEON-G ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 4000K, 930mA LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15096 lumens
Efficiency: N/A
Efficacy: 147.1 lumens/watt
Luminous Opening: Rectangular (W 0.9' x L: 1.25' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

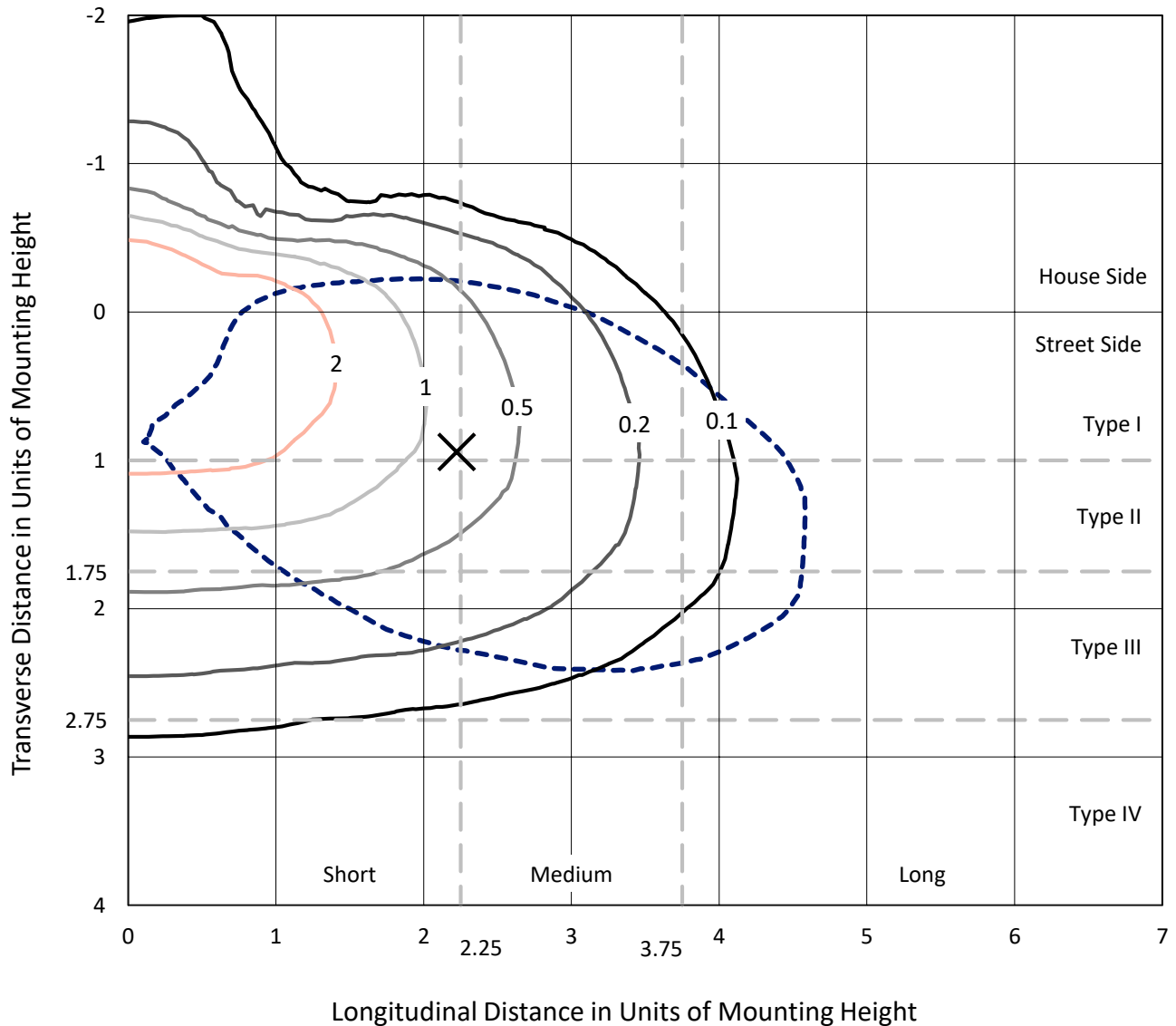
Input Watts (W): 102.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

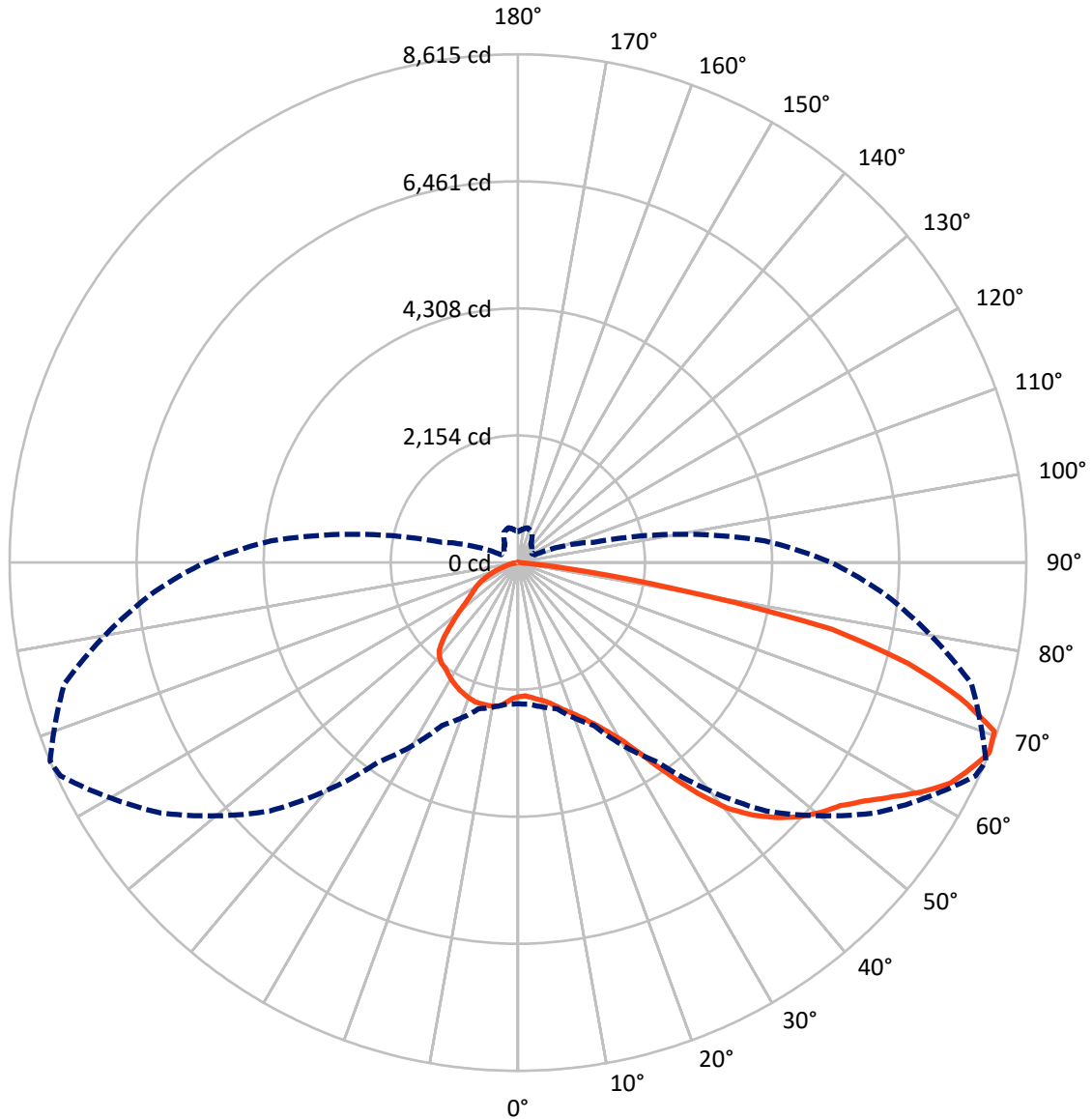
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.3 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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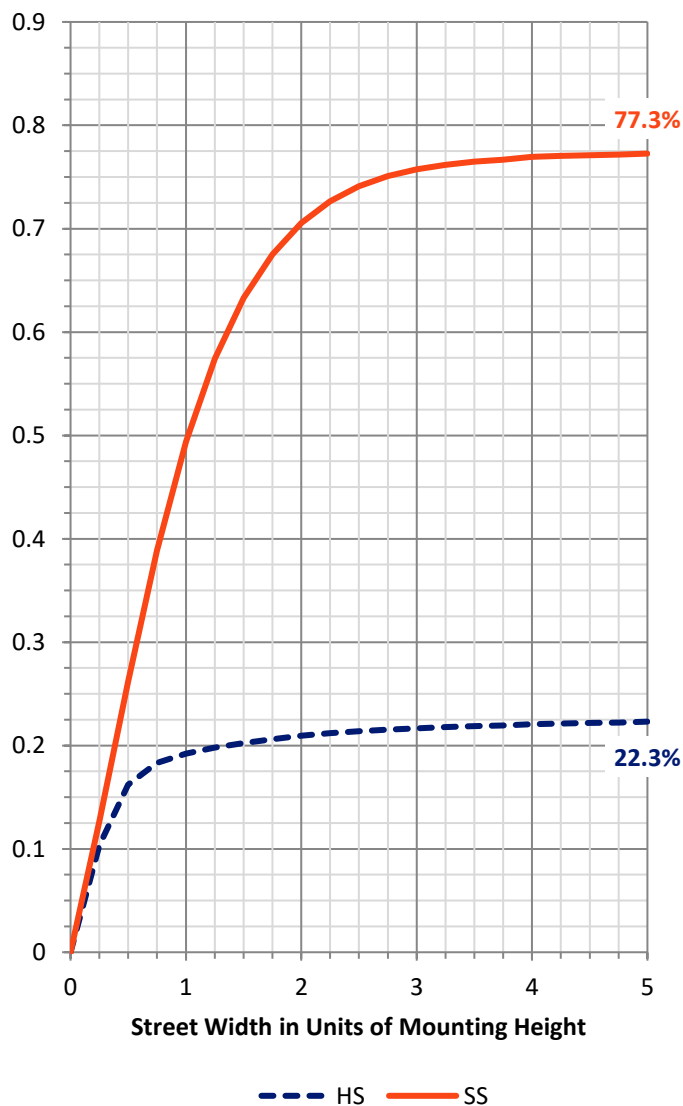
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3425.3	0.0	3425.3
	% Fixture	22.7	0.0	22.7
Street Side	Lumens	11670.7	0.0	11670.7
	% Fixture	77.3	0.0	77.3
Total	Lumens	15096.0	0.0	15096.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	230.5	1.5
10°-20°	729.7	4.8
20°-30°	1251.5	8.3
30°-40°	1862.4	12.3
40°-50°	2546.4	16.9
50°-60°	3058.7	20.3
60°-70°	3244.8	21.5
70°-80°	1982.2	13.1
80°-90°	189.8	1.3
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°	15096.0	100.0
0°-180°	15096.0	100.0

Coefficient of Utilization



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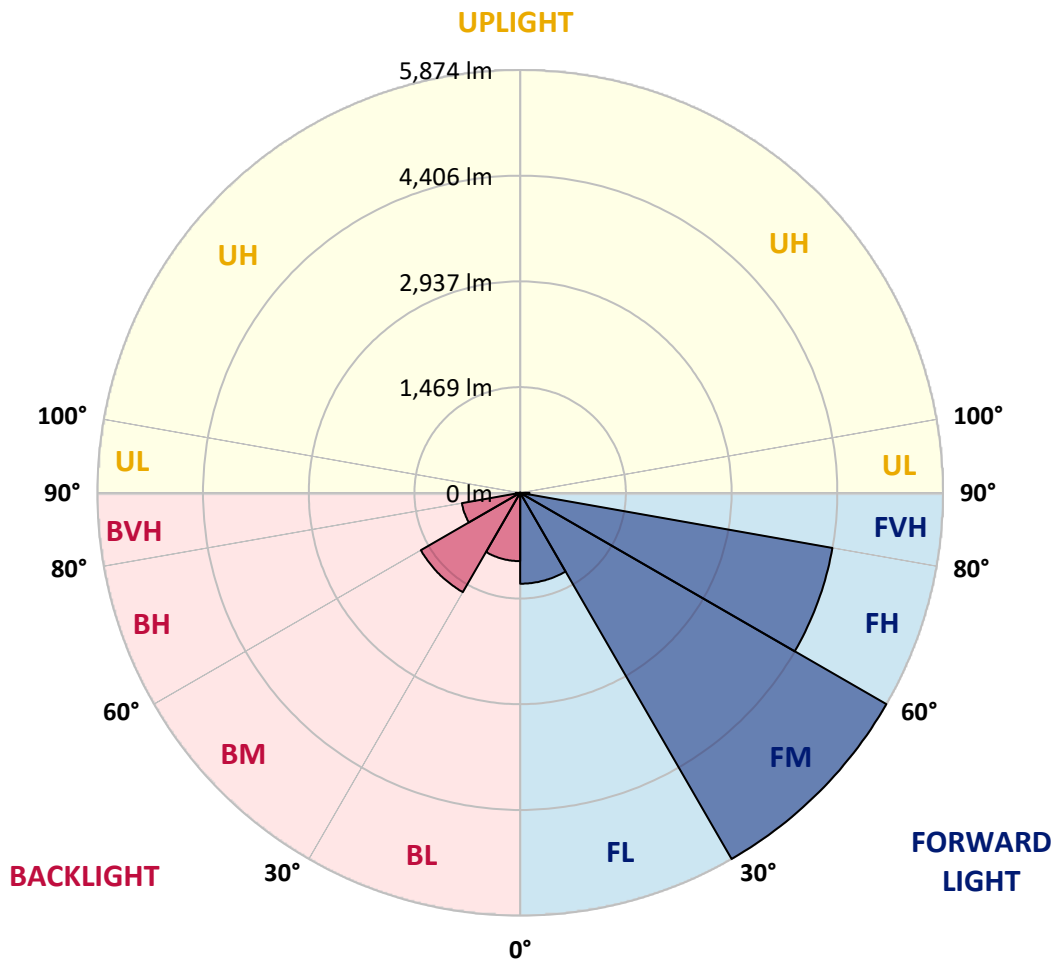
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1262.6	8.4			
FM (30°-60°)	5874.2	38.9			
FH (60°-80°)	4404.6	29.2			G2/5000
FVH (80°-90°)	129.3	0.9			G2/225
BL (0°-30°)	949.0	6.3	B2/1000		
BM (30°-60°)	1593.3	10.6	B2/2500		
BH (60°-80°)	822.4	5.4	B2/1000		G2/1000
BVH (80°-90°)	60.6	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	2276.1	2276.1	2276.1	2276.1	2276.1	2276.1	2276.1	2276.1	2276.1	2276.1	2276.1
2.5°	2312.1	2323.1	2305.1	2293.1	2280.1	2287.1	2270.1	2270.1	2262.1	2275.1	2267.1
5°	2387.1	2397.1	2366.1	2341.1	2339.1	2318.1	2316.1	2306.1	2294.1	2305.1	2316.1
7.5°	2487.1	2483.1	2461.1	2432.1	2403.1	2391.1	2371.1	2356.1	2338.1	2348.1	2351.1
10°	2609.1	2602.1	2573.1	2527.1	2504.1	2471.1	2421.1	2393.1	2380.1	2390.1	2393.1
12.5°	2739.1	2730.1	2702.1	2651.1	2611.1	2559.1	2502.1	2457.1	2448.1	2438.1	2455.1
15°	2885.1	2869.1	2845.1	2804.1	2742.1	2674.1	2596.1	2553.1	2540.1	2523.1	2515.1
17.5°	3043.1	3041.1	3010.1	2965.1	2902.1	2808.1	2708.1	2641.1	2641.1	2634.1	2591.1
20°	3213.1	3205.1	3174.1	3149.1	3060.1	2961.1	2839.1	2754.1	2745.1	2731.1	2660.1
22.5°	3384.1	3385.1	3345.1	3326.1	3260.1	3133.1	2979.1	2894.1	2876.1	2857.1	2734.1
25°	3539.1	3541.1	3529.1	3494.1	3440.1	3323.1	3162.1	3049.1	3039.1	3013.1	2864.1
27.5°	3696.1	3721.1	3686.1	3690.1	3666.1	3532.1	3371.1	3234.1	3244.1	3187.1	2983.1
30°	3882.1	3891.1	3874.1	3879.1	3864.1	3776.1	3620.1	3509.1	3509.1	3444.1	3185.1
32.5°	4031.1	4023.1	4024.1	4076.1	4083.1	4035.1	3907.1	3871.1	3902.1	3894.1	3661.1
35°	4105.1	4119.1	4158.1	4277.1	4335.1	4306.1	4291.1	4339.1	4417.1	4467.1	4181.1
37.5°	4200.1	4243.1	4292.1	4425.1	4532.1	4612.1	4694.1	4852.1	4964.1	5029.1	4675.1
40°	4298.1	4302.1	4400.1	4565.1	4774.1	4901.1	5096.1	5368.2	5478.2	5429.2	4949.1
42.5°	4222.1	4232.1	4368.1	4662.1	4924.1	5249.2	5460.2	5774.2	5850.2	5701.2	5232.2
45°	4124.1	4143.1	4315.1	4662.1	5089.1	5568.2	5809.2	6159.2	6168.2	5967.2	5403.2
47.5°	4037.1	4053.1	4234.1	4626.1	5244.2	5848.2	6090.2	6375.2	6436.2	6184.2	5630.2
50°	3921.1	3961.1	4139.1	4594.1	5316.2	6043.2	6339.2	6635.2	6656.2	6389.2	5800.2
52.5°	3795.1	3830.1	4049.1	4534.1	5408.2	6204.2	6504.2	6885.2	6846.2	6663.2	5991.2
55°	3625.1	3656.1	3909.1	4438.1	5419.2	6291.2	6623.2	7117.2	7132.2	6891.2	6176.2
57.5°	3430.1	3482.1	3712.1	4260.1	5318.2	6317.2	6828.2	7431.2	7489.2	7173.2	6324.2
60°	3219.1	3260.1	3521.1	4071.1	5184.1	6415.2	7109.2	7838.2	7884.2	7419.2	6384.2
62.5°	3003.1	3037.1	3253.1	3787.1	4938.1	6434.2	7354.2	8247.2	8232.2	7638.2	6467.2
65°	2734.1	2737.1	2941.1	3444.1	4596.1	6298.2	7480.2	8413.2	8428.2	7837.2	6372.2
67.5°	2392.1	2411.1	2566.1	3044.1	4130.1	5956.2	7400.2	8556.2	8615.2	7960.2	6251.2
70°	1905.1	1916.1	2078.1	2523.1	3511.1	5427.2	7248.2	8578.2	8565.2	7801.2	5918.2
72.5°	1355.0	1397.0	1506.0	1774.1	2694.1	4442.1	6561.2	7899.2	7839.2	7187.2	5279.2
75°	871.0	875.0	984.0	1159.0	1577.0	3149.1	5469.2	6809.2	6834.2	6234.2	4298.1
77.5°	288.0	325.0	361.0	489.0	654.0	1311.0	3692.1	5367.2	5443.2	4911.1	2933.1
80°	127.0	127.0	215.0	277.0	353.0	562.0	1473.0	2429.1	2662.1	2290.1	1130.0
82.5°	93.0	95.0	144.0	165.0	139.0	234.0	529.0	778.0	825.0	741.0	449.0
85°	53.0	55.0	62.0	71.0	59.0	95.0	117.0	120.0	121.0	105.0	82.0
87.5°	24.0	24.0	22.0	19.0	11.0	7.0	7.0	5.0	6.0	5.0	4.0
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°	2276.1	2276.1	2276.1	2276.1	2276.1	2276.1	2276.1	2276.1	2276.1	2276.1	2276.1
2.5°	2264.1	2274.1	2296.1	2300.1	2310.1	2325.1	2344.1	2353.1	2383.1	2397.1	2401.1
5°	2318.1	2323.1	2361.1	2374.1	2419.1	2442.1	2462.1	2476.1	2513.1	2522.1	2538.1
7.5°	2359.1	2376.1	2422.1	2451.1	2479.1	2503.1	2501.1	2534.1	2553.1	2568.1	2574.1
10°	2401.1	2410.1	2457.1	2470.1	2491.1	2509.1	2514.1	2523.1	2528.1	2549.1	2556.1
12.5°	2466.1	2460.1	2466.1	2477.1	2494.1	2490.1	2501.1	2488.1	2495.1	2522.1	2512.1
15°	2514.1	2500.1	2474.1	2475.1	2464.1	2459.1	2443.1	2432.1	2431.1	2437.1	2447.1
17.5°	2568.1	2527.1	2479.1	2466.1	2425.1	2385.1	2357.1	2327.1	2322.1	2328.1	2321.1
20°	2615.1	2560.1	2477.1	2436.1	2356.1	2284.1	2243.1	2198.1	2196.1	2192.1	2184.1
22.5°	2672.1	2603.1	2476.1	2393.1	2298.1	2182.1	2097.1	2063.1	2022.1	2038.1	2036.1
25°	2757.1	2671.1	2485.1	2347.1	2193.1	2055.1	1946.1	1871.1	1830.1	1821.1	1825.1
27.5°	2862.1	2748.1	2490.1	2289.1	2097.1	1900.1	1727.0	1614.0	1589.0	1556.0	1559.0
30°	3015.1	2853.1	2514.1	2225.1	1956.1	1702.0	1496.0	1349.0	1307.0	1314.0	1316.0
32.5°	3376.1	3069.1	2531.1	2151.1	1801.1	1483.0	1214.0	1067.0	1034.0	1046.0	1053.0
35°	3850.1	3483.1	2624.1	2056.1	1625.0	1227.0	931.0	848.0	855.0	878.0	884.0
37.5°	4320.1	3922.1	2829.1	1973.1	1400.0	939.0	743.0	694.0	735.0	757.0	764.0
40°	4609.1	4214.1	3055.1	1845.1	1114.0	690.0	566.0	538.0	585.0	636.0	661.0
42.5°	4901.1	4453.1	3202.1	1689.0	797.0	502.0	421.0	444.0	521.0	572.0	584.0
45°	5087.1	4576.1	3216.1	1441.0	531.0	389.0	384.0	433.0	512.0	553.0	560.0
47.5°	5268.2	4741.1	3157.1	1154.0	400.0	370.0	381.0	438.0	516.0	562.0	561.0
50°	5448.2	4903.1	3029.1	916.0	378.0	358.0	387.0	448.0	523.0	558.0	558.0
52.5°	5558.2	4983.1	2772.1	729.0	364.0	351.0	390.0	452.0	516.0	536.0	533.0
55°	5690.2	5002.1	2599.1	607.0	349.0	346.0	396.0	463.0	515.0	517.0	510.0
57.5°	5759.2	4955.1	2458.1	516.0	336.0	348.0	403.0	466.0	544.0	568.0	572.0
60°	5729.2	4898.1	2298.1	459.0	324.0	345.0	401.0	489.0	634.0	684.0	675.0
62.5°	5700.2	4791.1	2029.1	412.0	311.0	347.0	399.0	542.0	745.0	693.0	665.0
65°	5595.2	4569.1	1679.0	367.0	295.0	348.0	395.0	599.0	763.0	700.0	652.0
67.5°	5307.2	4199.1	1328.0	319.0	276.0	334.0	386.0	563.0	611.0	550.0	524.0
70°	4878.1	3663.1	911.0	276.0	253.0	317.0	380.0	533.0	574.0	531.0	498.0
72.5°	4186.1	2878.1	505.0	231.0	222.0	296.0	379.0	526.0	578.0	455.0	419.0
75°	3183.1	1909.1	328.0	181.0	182.0	264.0	361.0	502.0	560.0	428.0	379.0
77.5°	1875.1	804.0	229.0	129.0	142.0	205.0	321.0	481.0	530.0	419.0	379.0
80°	637.0	354.0	149.0	87.0	87.0	131.0	229.0	393.0	472.0	408.0	404.0
82.5°	331.0	225.0	95.0	54.0	50.0	63.0	141.0	270.0	379.0	346.0	394.0
85°	66.0	47.0	30.0	22.0	24.0	32.0	50.0	137.0	240.0	267.0	320.0
87.5°	5.0	4.0	6.0	6.0	6.0	6.0	7.0	34.0	96.0	118.0	146.0
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)