

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: P509199

Luminaire Tested: **VERD-CA2-130-722-U-T3**

Issue Date: 3/4/2021

Test Information

Test Method: LM-79-08
Report Number: P509199
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2102-139-4)
Test Lab: INNOVATION CENTER
Issue Date: 3/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VERD-CA2-130-722-U-T3
Description: VERDEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2200K, 1180mA LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14887 lumens
Efficiency: N/A
Efficacy: 113.0 lumens/watt
Luminous Opening: Rectangular (W 0.79' x L: 1.25' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

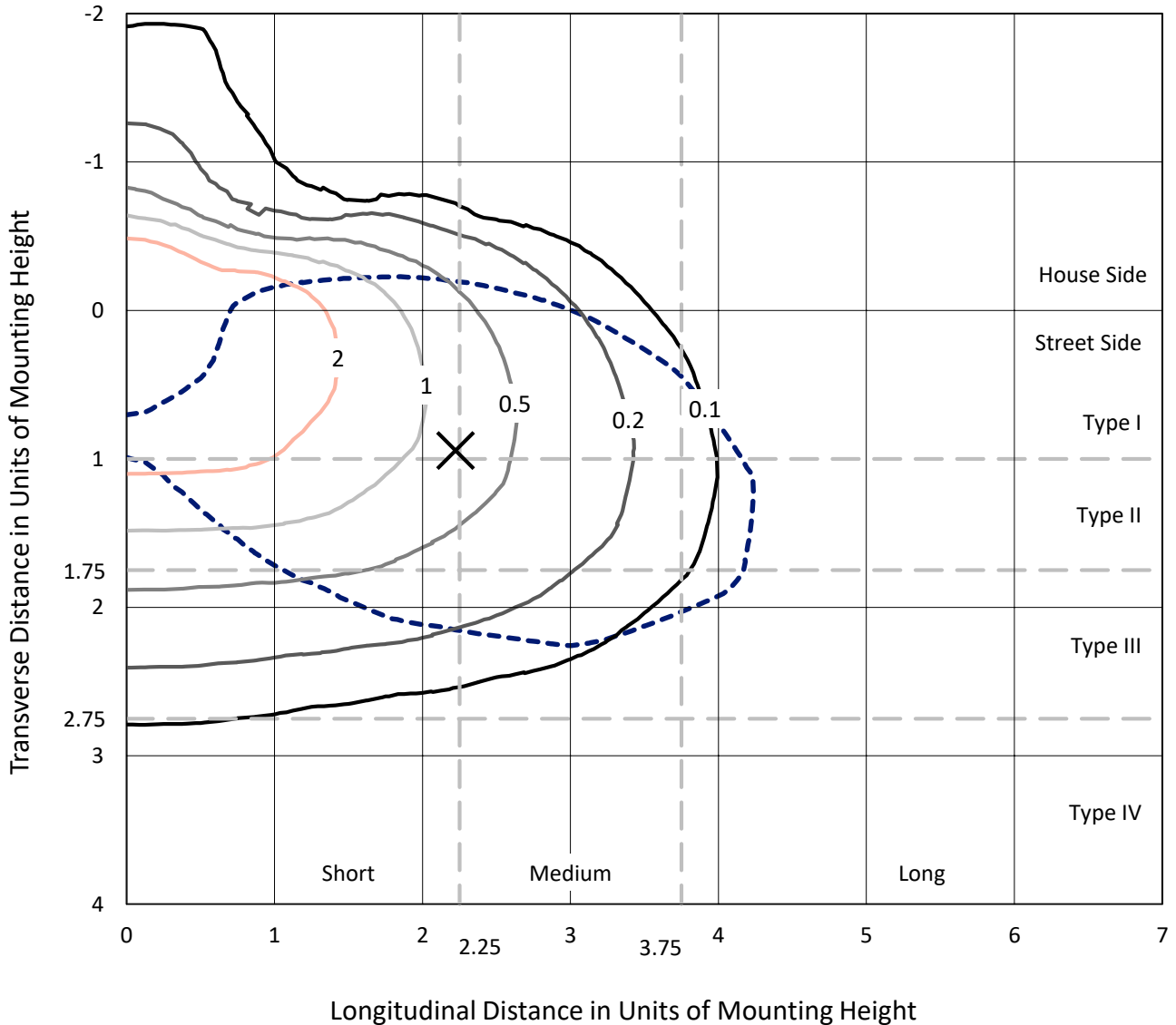
Input Watts (W): 131.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P509199
 CATALOG NUMBER: VERD-CA2-130-722-U-T3

Iso-Footcandle Lines of Horizontal Illumination

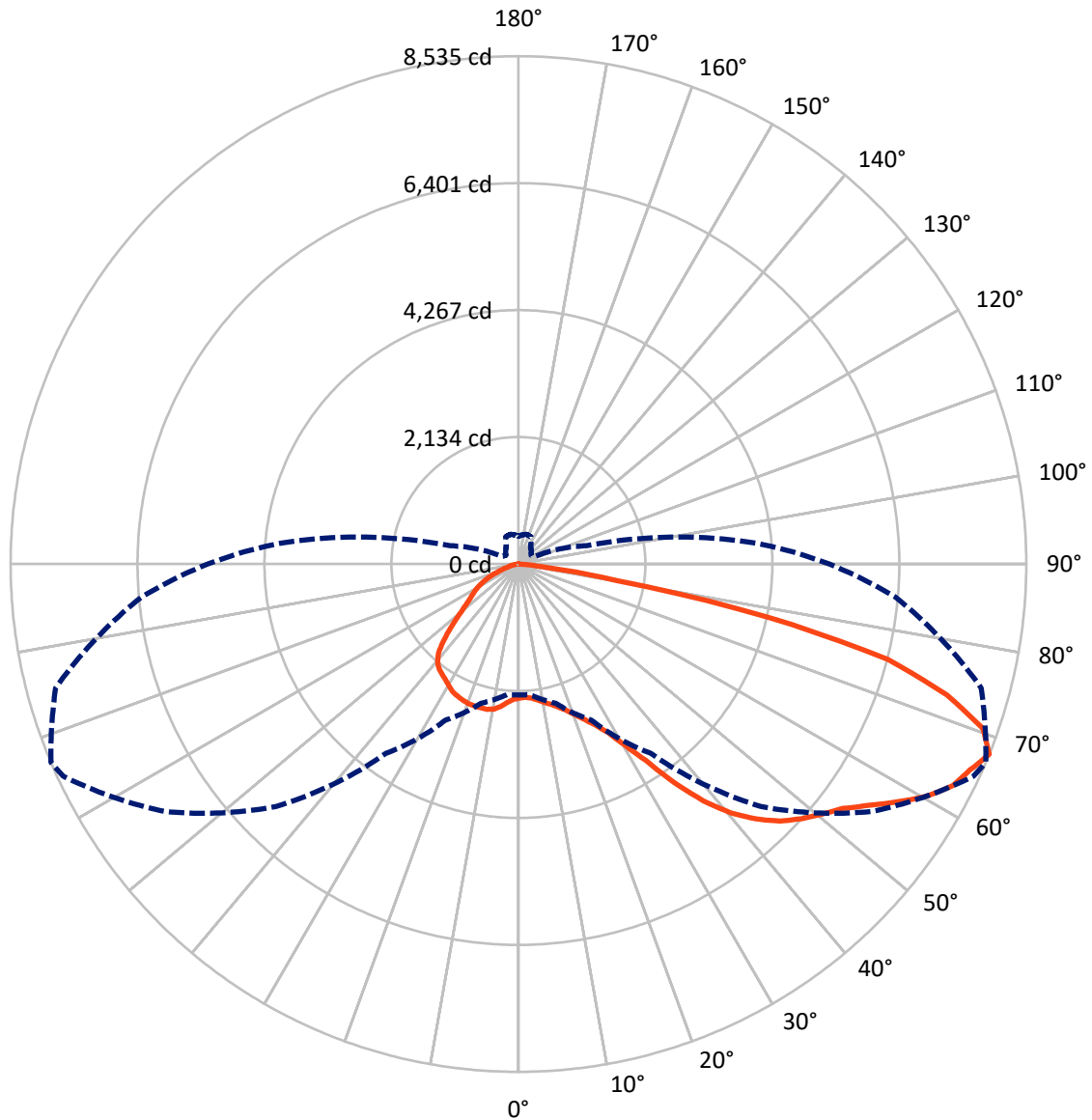
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.2 fc
 Type III - Short - N/A

REPORT NUMBER: P509199
CATALOG NUMBER: VERD-CA2-130-722-U-T3

Luminous Intensity Polar Plot



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

REPORT NUMBER: P509199

CATALOG NUMBER: VERD-CA2-130-722-U-T3

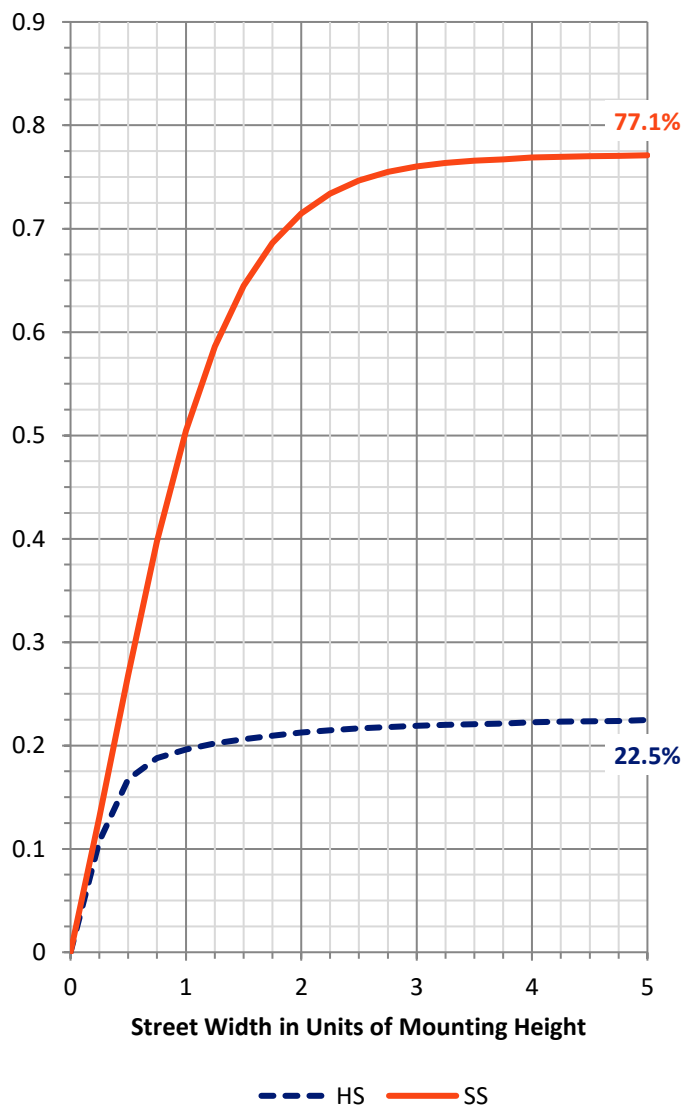
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3404.0	0.0	3404.0
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	11483.0	0.0	11483.0
	% Fixture	77.1	0.0	77.1
Total	Lumens	14887.0	0.0	14887.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	228.1	1.5
10°-20°	730.0	4.9
20°-30°	1261.3	8.5
30°-40°	1914.5	12.9
40°-50°	2601.5	17.5
50°-60°	3094.0	20.8
60°-70°	3183.3	21.4
70°-80°	1736.5	11.7
80°-90°	138.0	0.9
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°	14887.0	100.0
0°-180°	14887.0	100.0

Coefficient of Utilization



REPORT NUMBER: P509199

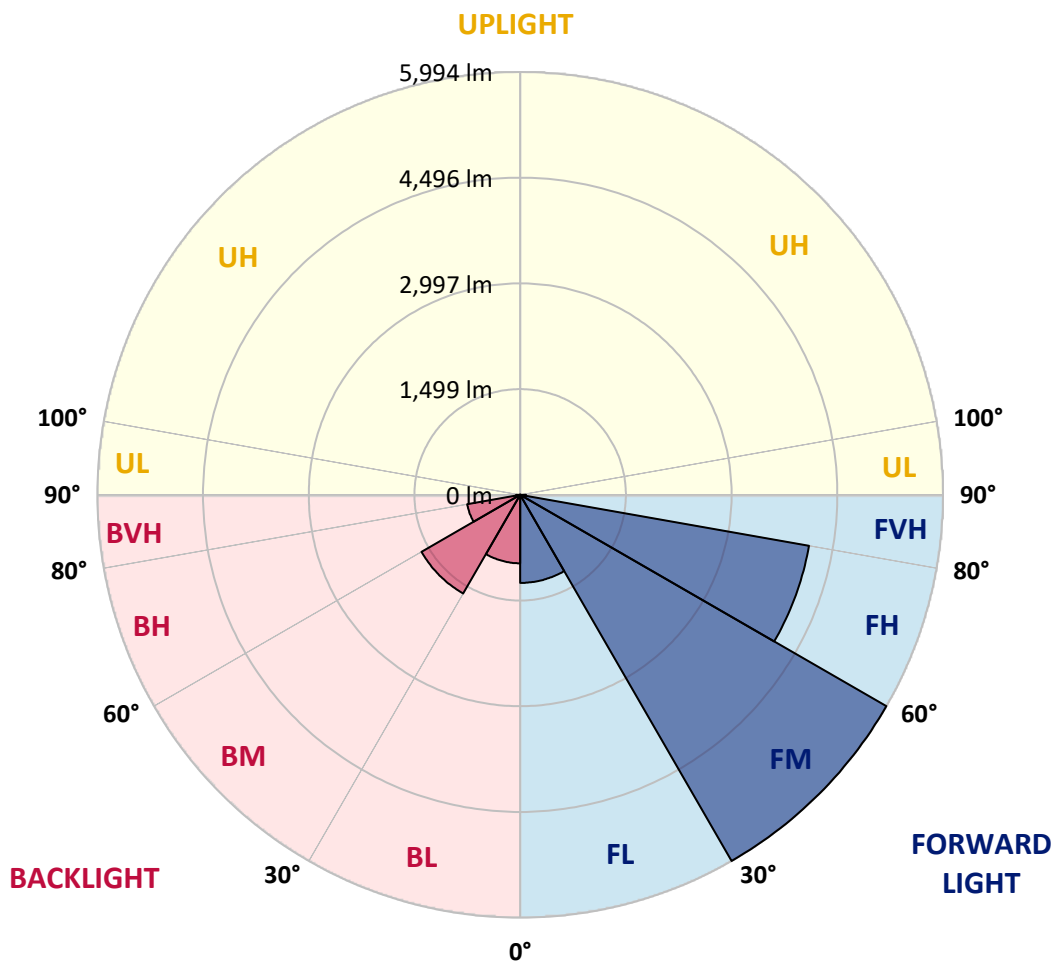
CATALOG NUMBER: VERD-CA2-130-722-U-T3

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1248.7	8.4			
FM (30°-60°)	5994.1	40.3			
FH (60°-80°)	4157.6	27.9			G2/5000
FVH (80°-90°)	82.6	0.6			G1/100
BL (0°-30°)	970.7	6.5	B2/1000		
BM (30°-60°)	1615.8	10.9	B2/2500		
BH (60°-80°)	762.1	5.1	B2/1000		G2/1000
BVH (80°-90°)	55.4	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





REPORT NUMBER: P509199
 CATALOG NUMBER: VERD-CA2-130-722-U-T3

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	2252.2	2252.2	2252.2	2252.2	2252.2	2252.2	2252.2	2252.2	2252.2	2252.2	2252.2
2.5°	2265.1	2255.4	2242.5	2247.3	2237.6	2253.8	2247.3	2244.1	2244.1	2245.7	2253.8
5°	2316.6	2307.0	2297.3	2295.7	2276.3	2282.8	2273.1	2263.4	2263.4	2261.8	2265.1
7.5°	2406.9	2394.0	2382.7	2381.1	2356.9	2353.7	2324.7	2305.4	2305.4	2303.7	2308.6
10°	2526.2	2521.4	2498.8	2484.3	2455.3	2435.9	2400.5	2369.8	2363.4	2353.7	2366.6
12.5°	2640.7	2639.1	2618.1	2602.0	2561.7	2527.8	2469.8	2427.9	2419.8	2408.5	2418.2
15°	2784.2	2769.7	2747.1	2737.4	2679.4	2627.8	2561.7	2498.8	2490.8	2477.9	2485.9
17.5°	2942.2	2934.1	2898.6	2887.3	2814.8	2755.1	2672.9	2592.3	2579.4	2561.7	2560.1
20°	3132.4	3117.9	3090.5	3058.2	2987.3	2901.9	2806.7	2714.8	2703.6	2689.0	2658.4
22.5°	3337.1	3321.0	3293.6	3259.7	3169.5	3079.2	2959.9	2843.8	2837.4	2827.7	2771.3
25°	3532.2	3504.8	3508.0	3475.8	3395.2	3280.7	3140.4	3001.8	2998.6	2997.0	2906.7
27.5°	3740.2	3711.1	3701.5	3690.2	3614.4	3506.4	3348.4	3216.2	3204.9	3206.5	3069.5
30°	3935.2	3922.3	3914.3	3906.2	3869.1	3772.4	3620.9	3503.2	3538.6	3535.4	3346.8
32.5°	4086.8	4077.1	4111.0	4149.6	4140.0	4059.4	3954.6	3901.4	3936.8	4051.3	3886.9
35°	4220.6	4215.7	4280.2	4362.4	4420.5	4362.4	4351.2	4433.4	4515.6	4705.8	4610.7
37.5°	4365.7	4359.2	4414.0	4554.3	4655.9	4673.6	4759.0	4970.2	5049.2	5239.5	5039.5
40°	4364.1	4372.1	4504.3	4683.3	4868.7	5018.6	5194.3	5399.1	5500.6	5590.9	5281.4
42.5°	4293.1	4298.0	4464.0	4804.2	5073.4	5368.4	5524.8	5787.6	5856.9	5874.6	5566.7
45°	4220.6	4223.8	4404.4	4786.4	5244.3	5695.7	5869.8	6110.0	6163.2	6101.9	5760.2
47.5°	4115.8	4136.7	4331.8	4768.7	5391.0	5997.2	6137.4	6376.0	6397.0	6319.6	5921.4
50°	3991.7	4002.9	4227.0	4710.7	5487.7	6184.2	6350.2	6566.2	6606.5	6519.5	6121.3
52.5°	3840.1	3849.8	4093.2	4633.3	5540.9	6327.6	6513.0	6771.0	6825.8	6787.1	6297.0
55°	3666.0	3670.8	3919.1	4507.5	5526.4	6390.5	6654.9	7061.2	7153.1	7057.9	6443.7
57.5°	3448.4	3466.1	3748.2	4318.9	5416.8	6469.5	6911.2	7419.1	7536.8	7333.6	6553.3
60°	3224.3	3242.0	3498.3	4099.7	5233.0	6505.0	7175.6	7804.4	7907.5	7594.8	6621.1
62.5°	2972.8	2997.0	3209.8	3769.2	4904.1	6458.2	7370.7	8141.3	8199.3	7751.2	6603.3
65°	2606.8	2619.7	2851.9	3371.0	4475.3	6214.8	7362.6	8321.9	8341.2	7923.7	6525.9
67.5°	2200.6	2202.2	2421.4	2890.6	3885.3	5760.2	7249.8	8439.5	8534.7	8051.0	6356.7
70°	1673.4	1696.0	1866.9	2215.1	3175.9	4983.1	6877.4	8323.5	8278.3	7702.8	5871.4
72.5°	1194.6	1181.7	1268.8	1504.1	2223.1	3845.0	5929.4	7520.6	7530.3	7016.0	5108.9
75°	635.2	638.4	712.6	910.9	1134.9	2502.0	4742.9	6353.4	6411.5	6016.5	3998.1
77.5°	141.9	161.2	245.0	348.2	493.3	801.2	2573.0	4167.4	4277.0	3959.4	2190.9
80°	109.6	111.2	161.2	198.3	217.6	383.7	817.4	1512.2	1678.2	1584.7	823.8
82.5°	72.5	74.2	106.4	109.6	104.8	175.7	370.8	453.0	498.2	435.3	306.3
85°	38.7	40.3	48.4	53.2	41.9	51.6	48.4	38.7	40.3	35.5	35.5
87.5°	8.1	4.8	6.4	4.8	4.8	3.2	4.8	4.8	4.8	4.8	4.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P509199
 CATALOG NUMBER: VERD-CA2-130-722-U-T3

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2252.2	2252.2	2252.2	2252.2	2252.2	2252.2	2252.2	2252.2	2252.2	2252.2	2252.2
2.5°	2253.8	2257.0	2265.1	2278.0	2284.4	2298.9	2308.6	2332.8	2366.6	2355.3	2340.8
5°	2266.7	2276.3	2303.7	2337.6	2363.4	2402.1	2421.4	2468.2	2506.9	2503.7	2477.9
7.5°	2315.0	2336.0	2369.8	2419.8	2463.3	2502.0	2529.4	2579.4	2614.9	2600.4	2576.2
10°	2376.3	2397.3	2434.3	2479.5	2511.7	2553.6	2571.4	2611.7	2634.2	2616.5	2595.5
12.5°	2432.7	2444.0	2469.8	2503.7	2521.4	2548.8	2556.9	2585.9	2606.8	2598.8	2573.0
15°	2487.5	2485.9	2490.8	2500.4	2506.9	2513.3	2514.9	2535.9	2550.4	2534.3	2516.5
17.5°	2548.8	2532.7	2511.7	2495.6	2471.4	2460.1	2439.2	2448.8	2447.2	2434.3	2419.8
20°	2626.2	2597.2	2532.7	2482.7	2419.8	2369.8	2326.3	2318.3	2318.3	2282.8	2281.2
22.5°	2718.1	2669.7	2561.7	2452.1	2350.5	2271.5	2190.9	2144.1	2110.3	2084.5	2073.2
25°	2837.4	2748.7	2587.5	2410.1	2260.2	2116.7	1995.8	1931.3	1866.9	1824.9	1818.5
27.5°	2964.7	2868.0	2603.6	2373.1	2136.1	1939.4	1771.7	1639.5	1579.9	1552.5	1526.7
30°	3172.7	3001.8	2632.6	2294.1	1979.7	1721.8	1499.3	1344.5	1286.5	1267.1	1251.0
32.5°	3677.3	3348.4	2660.0	2213.5	1812.0	1481.6	1188.1	1057.6	1007.6	1026.9	1033.4
35°	4309.2	3864.3	2790.6	2120.0	1637.9	1209.1	914.1	827.0	830.3	859.3	868.9
37.5°	4738.1	4318.9	3056.6	2002.3	1388.1	896.3	707.7	680.3	704.5	730.3	735.1
40°	4989.6	4526.9	3243.6	1857.2	1093.0	670.7	532.0	512.7	564.2	622.3	657.8
42.5°	5257.2	4704.2	3340.4	1668.6	767.4	485.3	407.9	422.4	504.6	554.6	577.1
45°	5400.7	4842.9	3296.8	1399.3	522.3	377.2	366.0	406.3	488.5	533.6	540.1
47.5°	5555.4	4981.5	3192.0	1118.8	399.8	357.9	359.5	407.9	491.7	540.1	540.1
50°	5689.2	5096.0	3005.0	877.0	380.5	345.0	361.1	415.9	496.5	538.5	536.8
52.5°	5844.0	5147.6	2739.0	709.3	361.1	333.7	362.7	422.4	488.5	512.7	509.4
55°	5892.4	5110.5	2611.7	593.3	346.6	327.3	369.2	432.1	485.3	490.1	482.0
57.5°	5892.4	5010.5	2466.6	506.2	333.7	327.3	372.4	430.4	503.0	533.6	530.4
60°	5866.6	4905.7	2244.1	453.0	316.0	324.0	374.0	454.6	598.1	632.0	630.3
62.5°	5784.4	4736.5	1970.0	399.8	298.2	325.7	369.2	488.5	683.5	669.0	633.6
65°	5589.3	4417.3	1597.6	351.4	278.9	325.7	362.7	536.8	607.8	580.4	567.5
67.5°	5221.7	4015.8	1188.1	301.5	256.3	304.7	353.1	503.0	515.9	485.3	465.9
70°	4736.5	3401.6	762.5	254.7	232.1	287.0	346.6	472.4	498.2	461.1	436.9
72.5°	3946.5	2701.9	441.7	208.0	196.7	264.4	333.7	457.8	490.1	440.1	406.3
75°	2784.2	1705.6	290.2	153.2	158.0	225.7	309.5	428.8	459.5	398.2	349.8
77.5°	1418.7	640.0	206.4	112.8	106.4	172.5	267.6	395.0	453.0	401.4	343.4
80°	501.4	322.4	135.4	74.2	69.3	106.4	204.7	335.3	425.6	391.7	380.5
82.5°	214.4	161.2	74.2	46.8	41.9	53.2	116.1	264.4	374.0	354.7	428.8
85°	30.6	27.4	21.0	17.7	17.7	24.2	37.1	130.6	253.1	288.6	349.8
87.5°	4.8	4.8	4.8	3.2	3.2	3.2	1.6	19.3	83.8	125.7	174.1
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)