

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: P509479

Luminaire Tested: **VERD-G-CA2-100-760-U-T3**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P509479
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-CA2-100-760-U-T3
Description: VERDEON-G ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 5700K, 930mA LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15047 lumens
Efficiency: N/A
Efficacy: 146.7 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

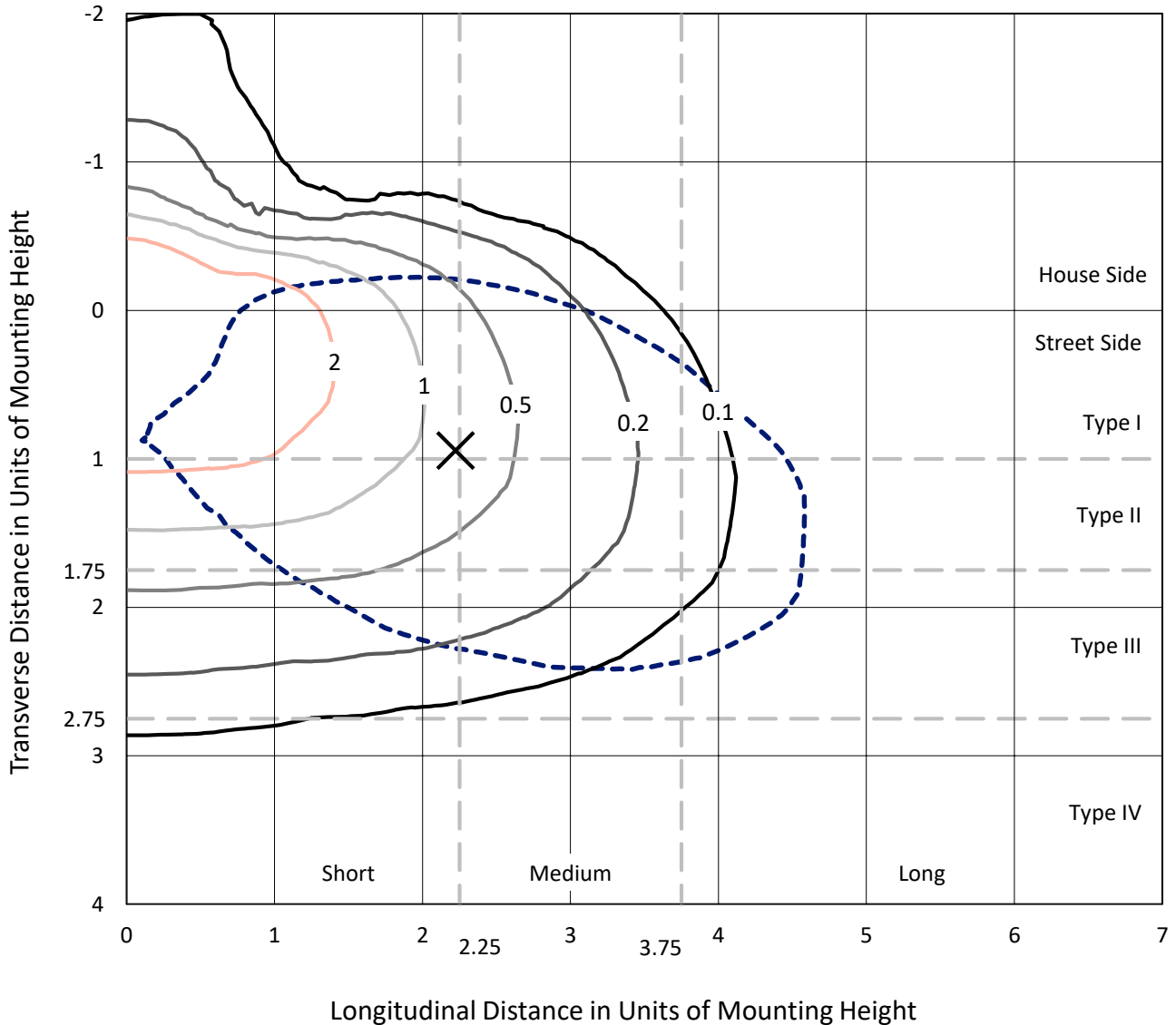
Input Watts (W): 102.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

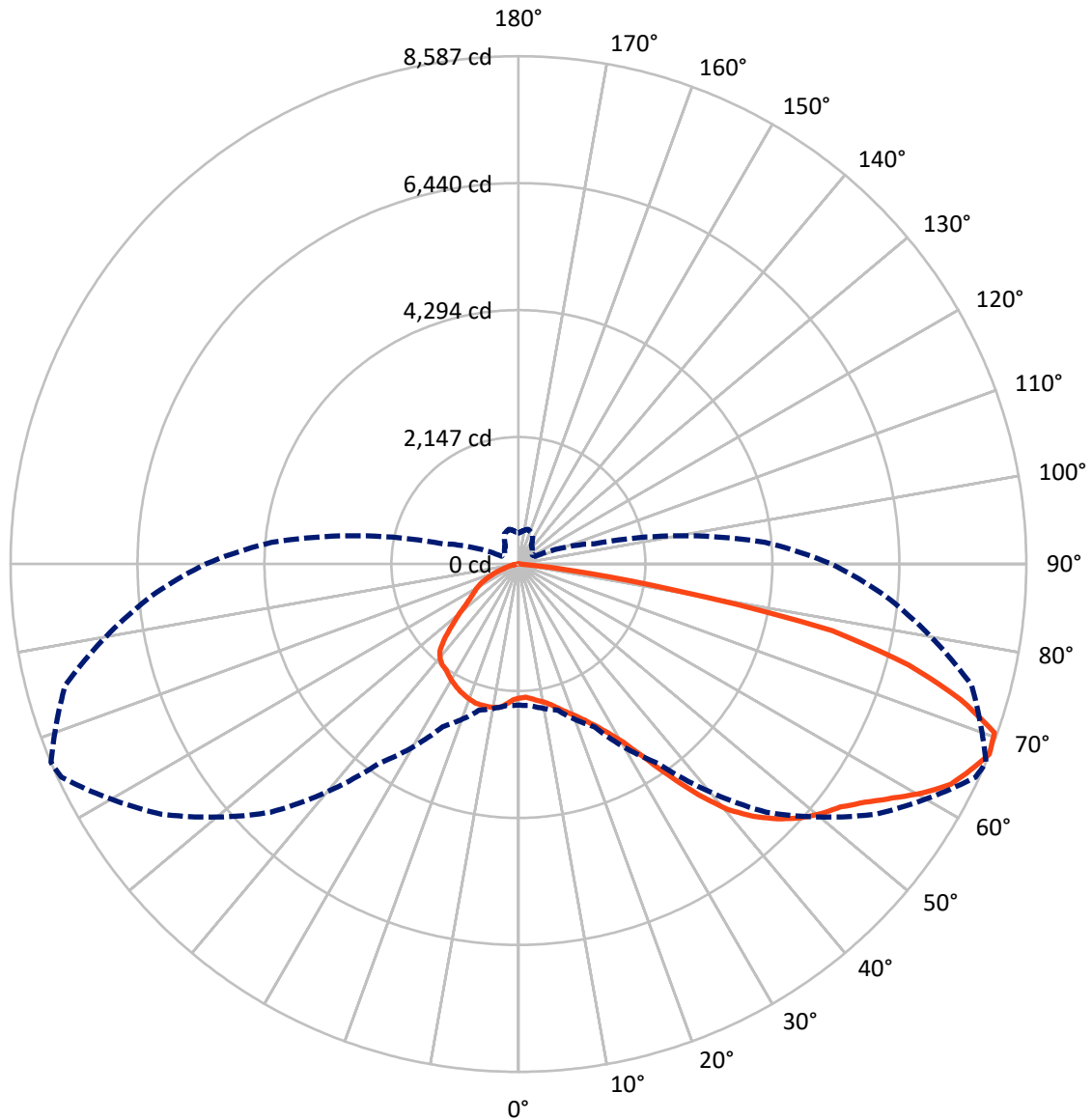
× Max cd
 - - - 1/2 Max cd



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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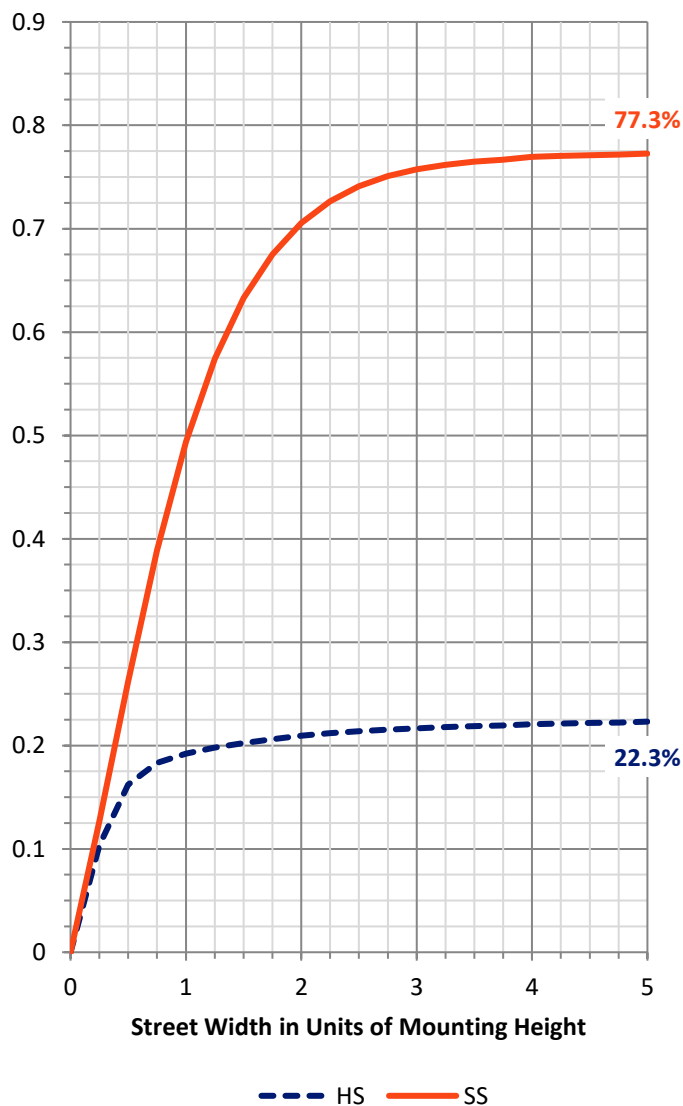
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3414.2	0.0	3414.2
	% Fixture	22.7	0.0	22.7
Street Side	Lumens	11632.8	0.0	11632.8
	% Fixture	77.3	0.0	77.3
Total	Lumens	15047.0	0.0	15047.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	229.8	1.5
10°-20°	727.3	4.8
20°-30°	1247.4	8.3
30°-40°	1856.4	12.3
40°-50°	2538.1	16.9
50°-60°	3048.7	20.3
60°-70°	3234.3	21.5
70°-80°	1975.8	13.1
80°-90°	189.2	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°	15047.0	100.0
0°-180°	15047.0	100.0

Coefficient of Utilization



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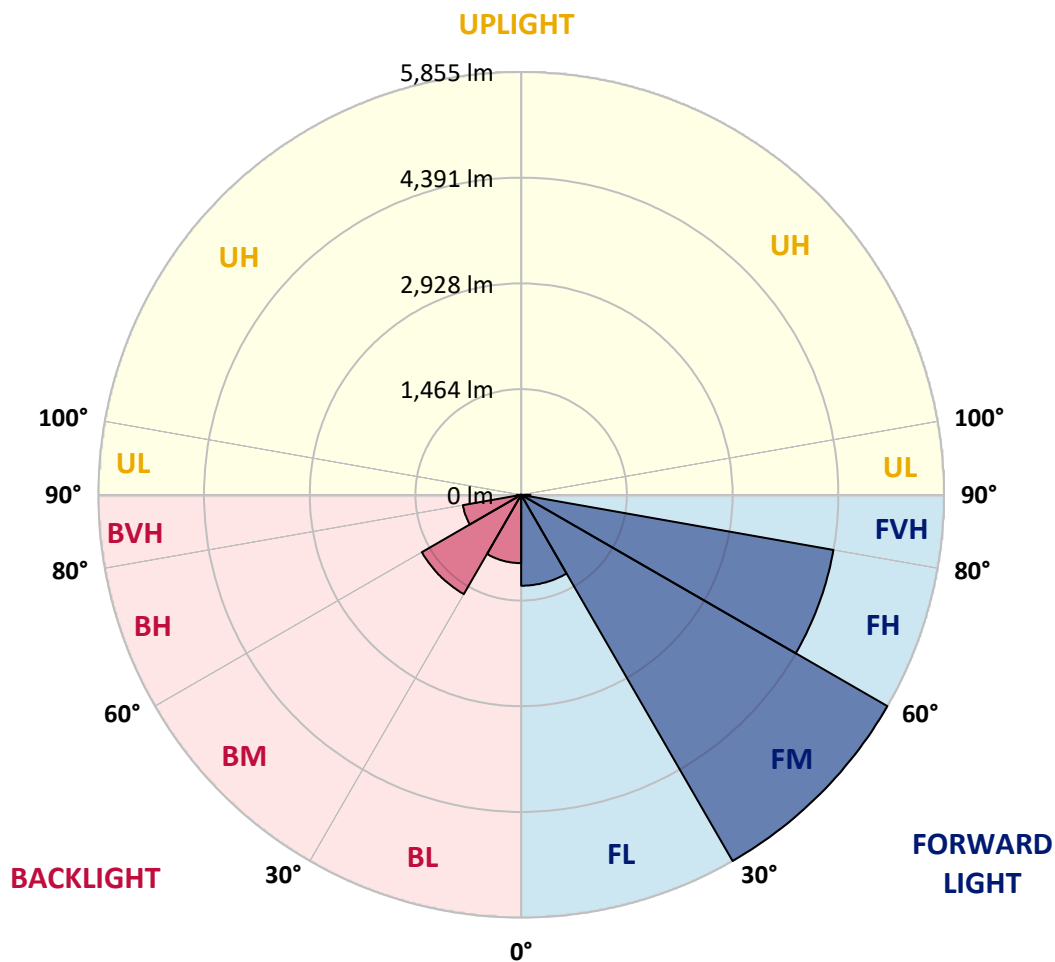
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1258.5	8.4			
FM (30°-60°)	5855.1	38.9			
FH (60°-80°)	4390.3	29.2			G2/5000
FVH (80°-90°)	128.8	0.9			G2/225
BL (0°-30°)	945.9	6.3	B2/1000		
BM (30°-60°)	1588.2	10.6	B2/2500		
BH (60°-80°)	819.8	5.4	B2/1000		G2/1000
BVH (80°-90°)	60.4	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	2268.7	2268.7	2268.7	2268.7	2268.7	2268.7	2268.7	2268.7	2268.7	2268.7	2268.7
2.5°	2304.6	2315.5	2297.6	2285.6	2272.7	2279.6	2262.7	2262.7	2254.7	2267.7	2259.7
5°	2379.3	2389.3	2358.4	2333.5	2331.5	2310.5	2308.5	2298.6	2286.6	2297.6	2308.5
7.5°	2479.0	2475.0	2453.1	2424.2	2395.3	2383.3	2363.4	2348.4	2330.5	2340.4	2343.4
10°	2600.6	2593.6	2564.7	2518.9	2495.9	2463.1	2413.2	2385.3	2372.3	2382.3	2385.3
12.5°	2730.2	2721.2	2693.3	2642.5	2602.6	2550.8	2494.0	2449.1	2440.1	2430.2	2447.1
15°	2875.7	2859.8	2835.8	2795.0	2733.2	2665.4	2587.6	2544.8	2531.8	2514.9	2506.9
17.5°	3033.2	3031.2	3000.3	2955.5	2892.7	2799.0	2699.3	2632.5	2632.5	2625.5	2582.7
20°	3202.7	3194.7	3163.8	3138.9	3050.2	2951.5	2829.9	2745.1	2736.2	2722.2	2651.4
22.5°	3373.1	3374.1	3334.2	3315.3	3249.5	3122.9	2969.4	2884.7	2866.7	2847.8	2725.2
25°	3527.6	3529.6	3517.6	3482.8	3428.9	3312.3	3151.8	3039.2	3029.2	3003.3	2854.8
27.5°	3684.1	3709.0	3674.1	3678.1	3654.2	3520.6	3360.2	3223.6	3233.6	3176.7	2973.4
30°	3869.5	3878.5	3861.5	3866.5	3851.6	3763.9	3608.4	3497.7	3497.7	3432.9	3174.8
32.5°	4018.0	4010.1	4011.1	4062.9	4069.9	4022.0	3894.4	3858.5	3889.4	3881.5	3649.2
35°	4091.8	4105.7	4144.6	4263.2	4321.1	4292.1	4277.2	4325.0	4402.8	4452.6	4167.5
37.5°	4186.5	4229.3	4278.2	4410.8	4517.4	4597.2	4678.9	4836.4	4948.0	5012.8	4660.0
40°	4284.2	4288.2	4385.8	4550.3	4758.6	4885.2	5079.6	5350.7	5460.4	5411.5	4933.1
42.5°	4208.4	4218.4	4353.9	4647.0	4908.2	5232.1	5442.4	5755.4	5831.2	5682.7	5215.2
45°	4110.7	4129.7	4301.1	4647.0	5072.6	5550.1	5790.3	6139.2	6148.2	5947.8	5385.6
47.5°	4024.0	4040.0	4220.4	4611.1	5227.1	5829.2	6070.4	6354.5	6415.3	6164.1	5611.9
50°	3908.4	3948.3	4125.7	4579.2	5298.9	6023.6	6318.6	6613.7	6634.6	6368.4	5781.3
52.5°	3782.8	3817.7	4036.0	4519.4	5390.6	6184.0	6483.1	6862.8	6824.0	6641.6	5971.7
55°	3613.3	3644.2	3896.4	4423.7	5401.6	6270.8	6601.7	7094.1	7109.1	6868.8	6156.1
57.5°	3419.0	3470.8	3700.1	4246.3	5300.9	6296.7	6806.0	7407.1	7464.9	7149.9	6303.7
60°	3208.6	3249.5	3509.7	4057.9	5167.3	6394.4	7086.1	7812.8	7858.6	7395.1	6363.5
62.5°	2993.3	3027.2	3242.5	3774.8	4922.1	6413.3	7330.3	8220.5	8205.5	7613.4	6446.2
65°	2725.2	2728.2	2931.5	3432.9	4581.2	6277.7	7455.9	8385.9	8400.9	7811.8	6351.5
67.5°	2384.3	2403.2	2557.7	3034.2	4116.7	5936.8	7376.2	8528.5	8587.3	7934.4	6230.9
70°	1898.9	1909.8	2071.3	2514.9	3499.7	5409.5	7224.7	8550.4	8537.4	7775.9	5899.0
72.5°	1350.6	1392.5	1501.2	1768.3	2685.3	4427.7	6539.9	7873.6	7813.8	7163.9	5262.0
75°	868.2	872.2	980.8	1155.3	1571.9	3138.9	5451.4	6787.1	6812.0	6213.9	4284.2
77.5°	287.1	324.0	359.8	487.4	651.9	1306.8	3680.1	5349.7	5425.5	4895.2	2923.6
80°	126.6	126.6	214.3	276.1	351.9	560.2	1468.3	2421.2	2653.4	2282.6	1126.4
82.5°	92.7	94.7	143.5	164.5	138.6	233.2	527.3	775.5	822.3	738.6	447.6
85°	52.8	54.8	61.8	70.8	58.8	94.7	116.6	119.6	120.6	104.7	81.7
87.5°	23.9	23.9	21.9	18.9	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°	2268.7	2268.7	2268.7	2268.7	2268.7	2268.7	2268.7	2268.7	2268.7	2268.7	2268.7
2.5°	2256.7	2266.7	2288.6	2292.6	2302.6	2317.5	2336.5	2345.4	2375.3	2389.3	2393.3
5°	2310.5	2315.5	2353.4	2366.4	2411.2	2434.1	2454.1	2468.0	2504.9	2513.9	2529.8
7.5°	2351.4	2368.4	2414.2	2443.1	2471.0	2494.9	2493.0	2525.8	2544.8	2559.7	2565.7
10°	2393.3	2402.2	2449.1	2462.1	2483.0	2500.9	2505.9	2514.9	2519.9	2540.8	2547.8
12.5°	2458.1	2452.1	2458.1	2469.0	2486.0	2482.0	2493.0	2480.0	2487.0	2513.9	2503.9
15°	2505.9	2492.0	2466.0	2467.0	2456.1	2451.1	2435.1	2424.2	2423.2	2429.2	2439.1
17.5°	2559.7	2518.9	2471.0	2458.1	2417.2	2377.3	2349.4	2319.5	2314.5	2320.5	2313.5
20°	2606.6	2551.8	2469.0	2428.2	2348.4	2276.7	2235.8	2190.9	2188.9	2184.9	2177.0
22.5°	2663.4	2594.6	2468.0	2385.3	2290.6	2175.0	2090.3	2056.4	2015.5	2031.4	2029.4
25°	2748.1	2662.4	2477.0	2339.4	2185.9	2048.4	1939.7	1865.0	1824.1	1815.1	1819.1
27.5°	2852.8	2739.2	2482.0	2281.6	2090.3	1893.9	1721.4	1608.8	1583.9	1551.0	1554.0
30°	3005.3	2843.8	2505.9	2217.8	1949.7	1696.5	1491.2	1344.7	1302.8	1309.8	1311.8
32.5°	3365.1	3059.1	2522.9	2144.1	1795.2	1478.2	1210.1	1063.6	1030.7	1042.6	1049.6
35°	3837.6	3471.8	2615.6	2049.4	1619.8	1223.1	928.0	845.3	852.2	875.2	881.2
37.5°	4306.1	3909.4	2819.9	1966.7	1395.5	936.0	740.6	691.8	732.6	754.6	761.5
40°	4594.2	4200.4	3045.2	1839.1	1110.4	687.8	564.2	536.3	583.1	634.0	658.9
42.5°	4885.2	4438.7	3191.7	1683.6	794.4	500.4	419.6	442.6	519.3	570.2	582.1
45°	5070.6	4561.3	3205.7	1436.4	529.3	387.7	382.8	431.6	510.4	551.2	558.2
47.5°	5251.1	4725.7	3146.8	1150.3	398.7	368.8	379.8	436.6	514.3	560.2	559.2
50°	5430.5	4887.2	3019.3	913.1	376.8	356.8	385.8	446.6	521.3	556.2	556.2
52.5°	5540.1	4967.0	2763.1	726.7	362.8	349.9	388.7	450.5	514.3	534.3	531.3
55°	5671.7	4985.9	2590.6	605.0	347.9	344.9	394.7	461.5	513.3	515.3	508.4
57.5°	5740.5	4939.1	2450.1	514.3	334.9	346.9	401.7	464.5	542.2	566.2	570.2
60°	5710.6	4882.2	2290.6	457.5	323.0	343.9	399.7	487.4	632.0	681.8	672.8
62.5°	5681.7	4775.6	2022.5	410.7	310.0	345.9	397.7	540.3	742.6	690.8	662.9
65°	5577.0	4554.3	1673.6	365.8	294.1	346.9	393.7	597.1	760.5	697.7	649.9
67.5°	5289.9	4185.5	1323.7	318.0	275.1	332.9	384.8	561.2	609.0	548.2	522.3
70°	4862.3	3651.2	908.1	275.1	252.2	316.0	378.8	531.3	572.2	529.3	496.4
72.5°	4172.5	2868.7	503.4	230.3	221.3	295.0	377.8	524.3	576.1	453.5	417.7
75°	3172.8	1902.9	326.9	180.4	181.4	263.2	359.8	500.4	558.2	426.6	377.8
77.5°	1869.0	801.4	228.3	128.6	141.5	204.3	320.0	479.5	528.3	417.7	377.8
80°	635.0	352.9	148.5	86.7	86.7	130.6	228.3	391.7	470.5	406.7	402.7
82.5°	329.9	224.3	94.7	53.8	49.8	62.8	140.5	269.1	377.8	344.9	392.7
85°	65.8	46.8	29.9	21.9	23.9	31.9	49.8	136.6	239.2	266.1	319.0
87.5°	5.0	4.0	6.0	6.0	6.0	6.0	7.0	33.9	95.7	117.6	145.5
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)