

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: P509533

Luminaire Tested: **VERD-G-CA2-120-722-U-T2**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P509533
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2102-155-2)
Test Lab: INNOVATION CENTER
Issue Date: 4/6/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VERD-G-CA2-120-722-U-T2
Description: VERDEON-G ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2200K, 1120mA LEDS AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14570 lumens
Efficiency: N/A
Efficacy: 116.8 lumens/watt
Luminous Opening: Rectangular (W 0.9' x L: 1.25' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

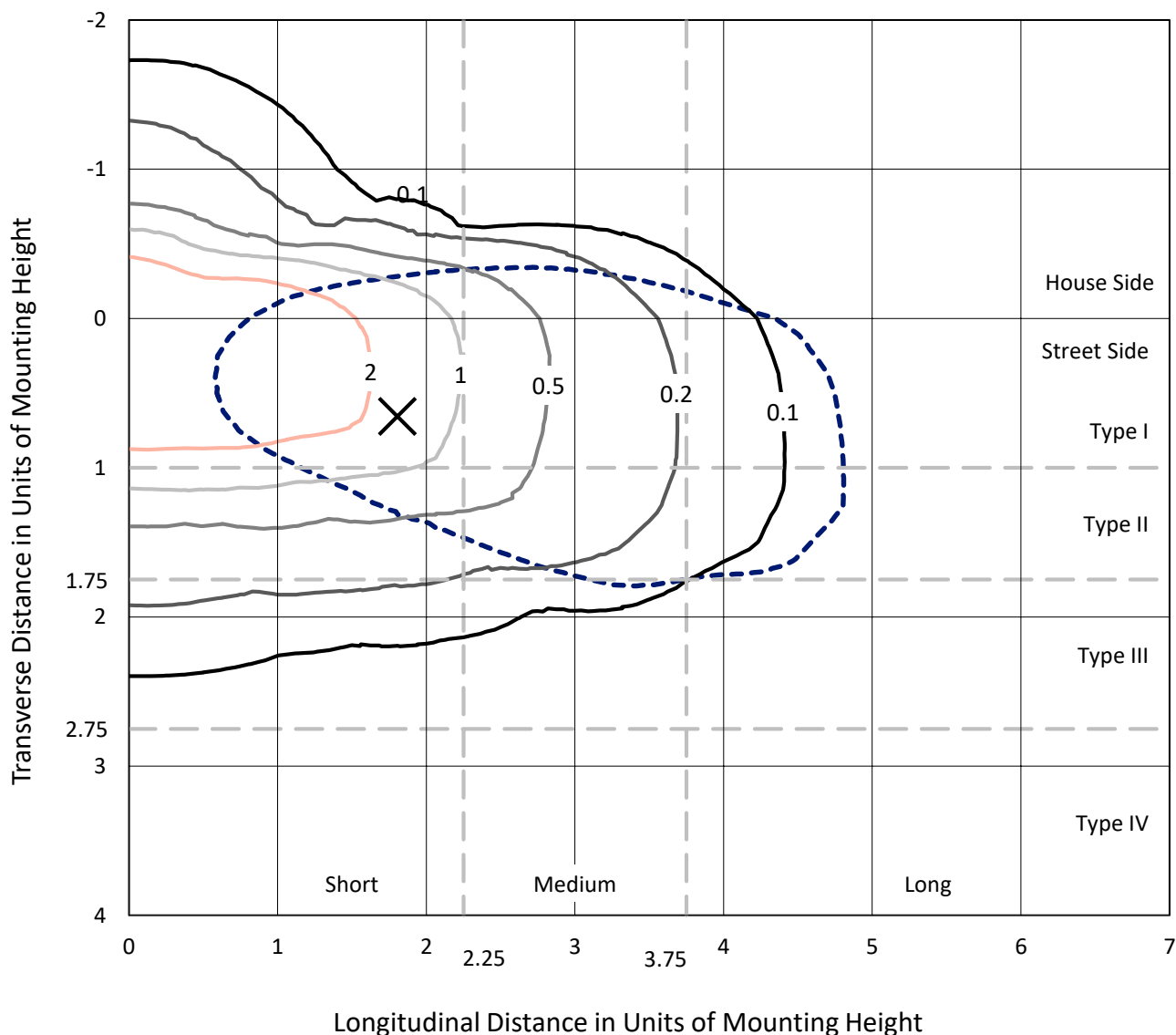
Input Watts (W): 124.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

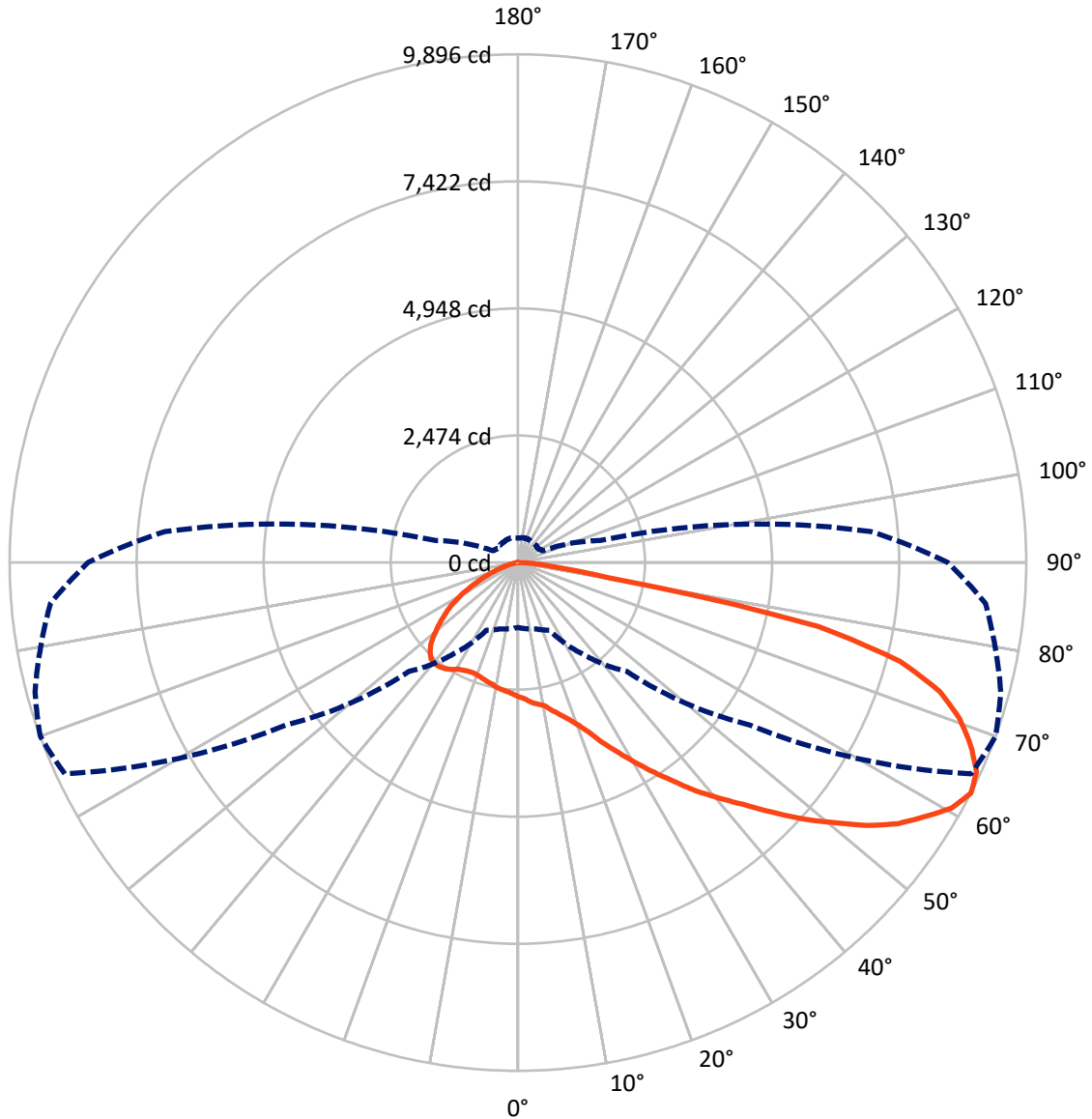
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 70-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

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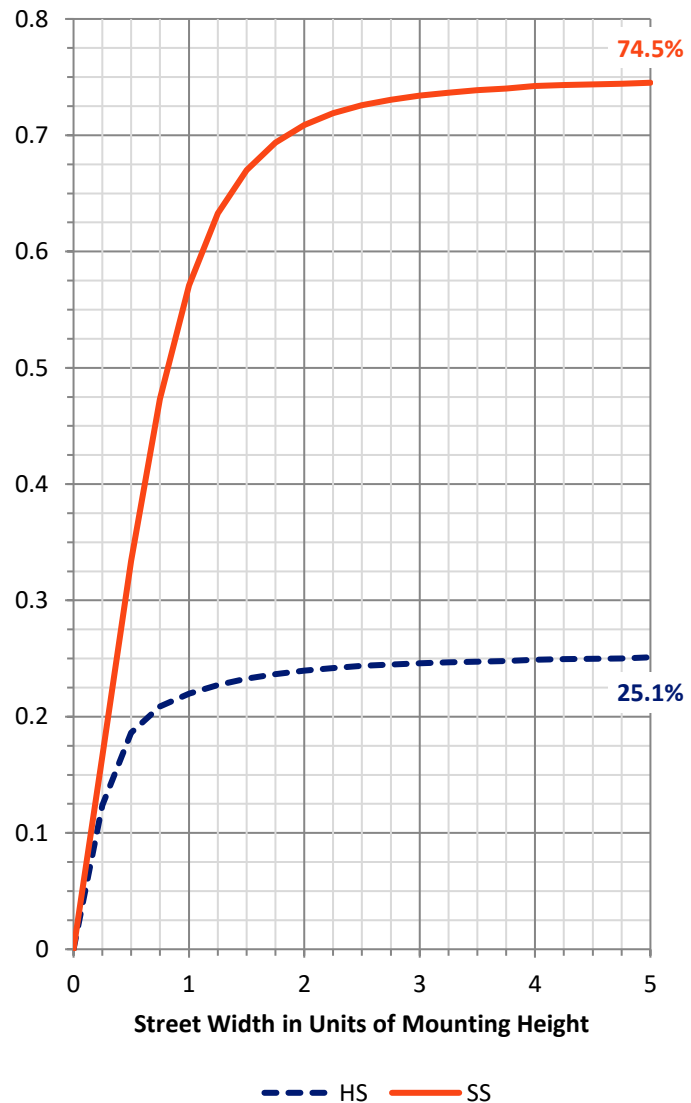
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3723.1	0.0	3723.1
	% Fixture	25.6	0.0	25.6
Street Side	Lumens	10846.9	0.0	10846.9
	% Fixture	74.4	0.0	74.4
Total	Lumens	14570.0	0.0	14570.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	252.5	1.7
10°-20°	768.1	5.3
20°-30°	1305.7	9.0
30°-40°	1878.8	12.9
40°-50°	2438.2	16.7
50°-60°	2858.1	19.6
60°-70°	2931.0	20.1
70°-80°	1923.3	13.2
80°-90°	214.3	1.5
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°	14570.0	100.0
0°-180°	14570.0	100.0



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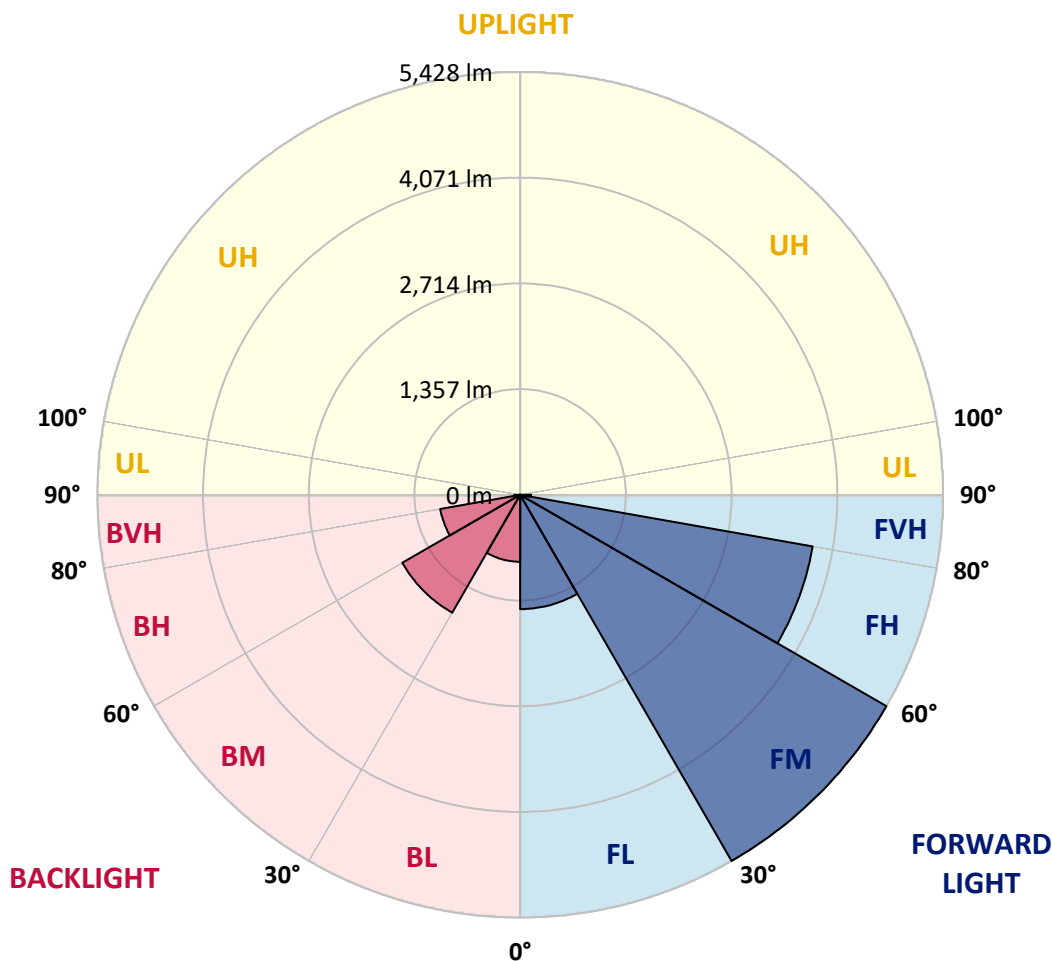
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1466.6	10.1			
FM	(30°-60°)	5427.7	37.3			
FH	(60°-80°)	3812.8	26.2			G2/5000
FVH	(80°-90°)	139.7	1.0			G2/225
BL	(0°-30°)	859.7	5.9	B2/1000		
BM	(30°-60°)	1747.4	12.0	B2/2500		
BH	(60°-80°)	1041.5	7.1	B3/2500		G3/2500
BVH	(80°-90°)	74.5	0.5			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	2614.9	2614.9	2614.9	2614.9	2614.9	2614.9	2614.9	2614.9	2614.9	2614.9	2614.9
2.5°	2783.1	2793.6	2776.4	2760.2	2743.9	2734.4	2718.1	2672.3	2656.0	2641.7	2613.0
5°	2927.4	2941.7	2916.9	2865.3	2852.8	2812.7	2790.7	2751.6	2735.3	2710.5	2662.7
7.5°	3096.5	3098.4	3063.0	3046.8	3005.7	2951.2	2881.5	2809.8	2786.0	2760.2	2700.0
10°	3194.9	3214.9	3180.5	3129.9	3101.2	3052.5	2979.0	2884.4	2831.8	2786.0	2719.1
12.5°	3333.4	3338.2	3282.8	3254.1	3215.9	3154.7	3083.1	3000.9	2949.3	2864.3	2743.0
15°	3434.7	3437.5	3387.9	3357.3	3321.0	3284.7	3207.3	3121.3	3070.7	2985.6	2801.2
17.5°	3507.3	3519.7	3489.1	3467.2	3428.9	3403.2	3342.0	3274.2	3208.2	3131.8	2922.6
20°	3586.6	3593.3	3536.9	3546.5	3539.8	3528.3	3499.6	3435.6	3382.1	3280.9	3020.0
22.5°	3608.6	3597.1	3612.4	3649.6	3667.8	3681.2	3672.6	3658.2	3609.5	3483.4	3204.4
25°	3576.1	3590.4	3626.7	3707.9	3809.2	3869.4	3912.4	3922.9	3908.6	3788.2	3450.9
27.5°	3567.5	3560.8	3620.0	3758.6	3928.6	4069.1	4154.1	4234.4	4198.0	4122.6	3728.9
30°	3531.2	3528.3	3632.4	3774.8	3993.6	4254.4	4406.3	4542.0	4524.8	4448.4	4054.7
32.5°	3442.3	3461.4	3541.7	3788.2	4093.0	4434.0	4619.4	4842.0	4867.8	4811.4	4384.4
35°	3327.7	3334.4	3462.4	3752.8	4170.3	4591.7	4861.1	5170.7	5230.8	5228.9	4755.0
37.5°	3182.5	3220.7	3357.3	3664.9	4203.8	4735.9	5093.3	5520.3	5640.7	5622.6	5125.7
40°	3037.2	3061.1	3222.6	3553.2	4206.6	4832.4	5290.1	5893.9	6027.6	6030.5	5548.0
42.5°	2819.4	2859.5	3028.6	3406.0	4142.6	4914.6	5485.9	6285.6	6437.5	6459.5	5939.8
45°	2637.9	2651.2	2801.2	3177.7	4004.1	4958.6	5703.8	6686.9	6932.4	6914.3	6279.9
47.5°	2402.8	2455.4	2614.0	2961.8	3787.2	4966.2	5892.9	7153.1	7456.9	7414.9	6743.2
50°	1859.2	1917.5	2349.3	2766.9	3513.0	4879.3	6044.8	7707.3	7954.7	7909.8	7137.8
52.5°	1639.5	1668.1	1843.0	2539.5	3228.3	4671.9	6166.2	8232.7	8503.1	8364.6	7599.3
55°	1545.8	1559.2	1638.5	2077.1	2977.0	4331.8	6235.9	8822.2	8974.1	8768.7	8029.2
57.5°	1444.6	1476.1	1516.2	1750.3	2697.1	3860.8	6192.9	9311.4	9336.2	9131.8	8396.1
60°	1349.0	1362.4	1445.5	1568.8	2375.1	3374.5	5950.3	9616.1	9704.0	9452.8	8837.5
62.5°	1264.0	1287.9	1336.6	1452.2	2160.2	2996.1	5518.4	9733.7	9896.1	9732.7	9135.6
65°	1183.7	1191.4	1246.8	1351.9	1922.3	2809.8	5269.1	9548.3	9812.0	9786.2	9266.5
67.5°	1089.2	1097.8	1146.5	1219.1	1625.1	2602.5	4619.4	9286.5	9508.2	9596.1	9191.9
70°	965.9	972.6	1029.9	1072.9	1362.4	2296.8	3878.9	8885.3	9125.1	9043.9	8691.3
72.5°	824.5	835.0	880.9	934.4	1133.1	1936.6	3038.2	8045.5	8594.8	8541.3	7948.0
75°	665.9	682.2	719.4	783.4	921.0	1538.2	2150.6	6510.1	7683.4	7763.6	6858.9
77.5°	315.3	331.5	365.0	418.5	558.0	1072.9	1177.1	3669.7	5983.7	6480.5	5522.2
80°	103.2	105.1	247.4	282.8	354.5	661.1	480.6	1197.1	1772.3	2997.1	2970.4
82.5°	55.4	60.2	133.8	164.3	177.7	177.7	140.4	528.3	746.2	912.4	1056.7
85°	29.6	30.6	46.8	56.4	61.1	48.7	36.3	217.8	349.7	436.6	432.8
87.5°	12.4	13.4	14.3	12.4	10.5	6.7	4.8	3.8	3.8	3.8	3.8
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°	2614.9	2614.9	2614.9	2614.9	2614.9	2614.9	2614.9	2614.9	2614.9	2614.9	2614.9
2.5°	2598.7	2585.3	2578.6	2550.9	2520.4	2487.9	2462.1	2463.0	2483.1	2498.4	2497.4
5°	2628.3	2594.9	2553.8	2488.8	2462.1	2438.2	2409.5	2371.3	2383.7	2399.0	2410.5
7.5°	2644.6	2601.6	2546.2	2449.7	2405.7	2354.1	2327.4	2277.7	2256.7	2272.0	2272.0
10°	2638.8	2594.9	2499.3	2428.6	2342.7	2261.4	2207.9	2195.5	2177.4	2174.5	2173.5
12.5°	2677.0	2612.1	2470.7	2366.5	2288.2	2184.1	2126.7	2115.3	2119.1	2095.2	2099.0
15°	2714.3	2640.7	2445.8	2337.9	2216.5	2094.2	2048.4	2006.4	2025.5	2005.4	2010.2
17.5°	2781.2	2692.3	2432.5	2280.6	2124.8	2018.8	1936.6	1888.8	1886.9	1884.1	1876.4
20°	2857.6	2734.4	2430.5	2230.9	2050.3	1924.2	1806.7	1754.1	1715.9	1729.3	1730.2
22.5°	2996.1	2813.7	2450.6	2185.0	1946.2	1804.8	1684.4	1604.1	1558.3	1565.9	1566.9
25°	3193.0	2979.9	2503.2	2145.8	1859.2	1666.2	1547.8	1446.5	1391.1	1392.0	1407.3
27.5°	3478.6	3178.6	2587.2	2112.4	1766.5	1535.3	1374.8	1275.5	1215.3	1214.3	1224.8
30°	3761.4	3427.0	2707.6	2064.6	1649.0	1359.5	1178.0	1098.7	1061.5	1036.6	1042.3
32.5°	4041.4	3693.6	2864.3	2039.8	1511.5	1152.2	1000.3	945.9	899.0	853.2	858.0
35°	4358.6	3943.9	3021.9	1990.1	1346.2	980.2	874.2	799.7	739.5	715.6	710.8
37.5°	4731.2	4235.3	3130.9	1948.1	1150.3	864.6	735.7	680.2	641.1	615.3	611.5
40°	5059.8	4479.9	3251.2	1849.7	962.1	760.5	614.3	584.7	579.9	559.9	557.0
42.5°	5392.3	4779.9	3333.4	1720.7	833.1	627.7	525.5	542.7	569.4	557.0	557.0
45°	5731.5	5093.3	3349.6	1527.7	709.9	531.2	503.5	536.0	573.2	576.1	575.2
47.5°	6103.1	5371.3	3381.2	1251.6	622.0	506.4	499.7	526.4	574.2	591.4	587.6
50°	6524.5	5672.2	3293.3	954.4	569.4	509.2	503.5	515.9	567.5	586.6	579.9
52.5°	6934.3	5961.7	3148.1	728.0	536.0	512.1	523.6	514.0	551.3	570.4	578.0
55°	7314.6	6280.8	2840.4	647.8	513.1	508.3	539.8	522.6	536.0	541.7	552.2
57.5°	7699.6	6515.9	2513.7	607.6	500.6	503.5	530.2	522.6	531.2	524.5	515.9
60°	8060.8	6763.3	2092.3	570.4	487.3	500.6	511.1	509.2	515.0	502.5	496.8
62.5°	8367.4	6897.1	1651.9	537.9	475.8	487.3	485.3	494.9	495.9	481.5	477.7
65°	8507.9	6954.4	1261.1	508.3	458.6	470.1	460.5	462.4	463.4	444.3	443.3
67.5°	8365.5	6639.1	864.6	464.3	440.4	454.8	436.6	433.8	427.1	408.0	408.9
70°	7949.9	6112.7	577.1	401.3	401.3	426.1	415.6	408.9	392.7	374.5	380.3
72.5°	7021.3	5218.4	374.5	323.9	352.5	392.7	387.9	378.3	340.1	288.5	290.4
75°	6005.7	4141.7	249.4	236.0	269.4	340.1	322.9	300.0	284.7	301.0	321.0
77.5°	4676.7	2640.7	139.5	135.7	159.6	238.9	269.4	274.2	387.9	460.5	455.7
80°	2427.7	1341.4	81.2	66.9	94.6	160.5	212.1	288.5	481.5	363.1	351.6
82.5°	954.4	502.5	49.7	35.3	42.0	65.9	140.4	414.6	365.0	183.4	175.8
85°	326.7	113.7	20.1	18.2	20.1	27.7	55.4	371.7	189.2	116.6	110.8
87.5°	3.8	3.8	4.8	5.7	6.7	6.7	15.3	176.7	87.9	54.5	52.5
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)