

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: P509484

Luminaire Tested: **VERD-G-CA2-110-722-U-T2-HSS**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P509484
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2102-155-3)
Test Lab: INNOVATION CENTER
Issue Date: 4/6/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VERD-G-CA2-110-722-U-T2-HSS
Description: VERDEON-G ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2200K, 1020mA LEDS AND TYPE II OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12298 lumens
Efficiency: N/A
Efficacy: 108.6 lumens/watt
Luminous Opening: Rectangular (W 0.9' x L: 1.25' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

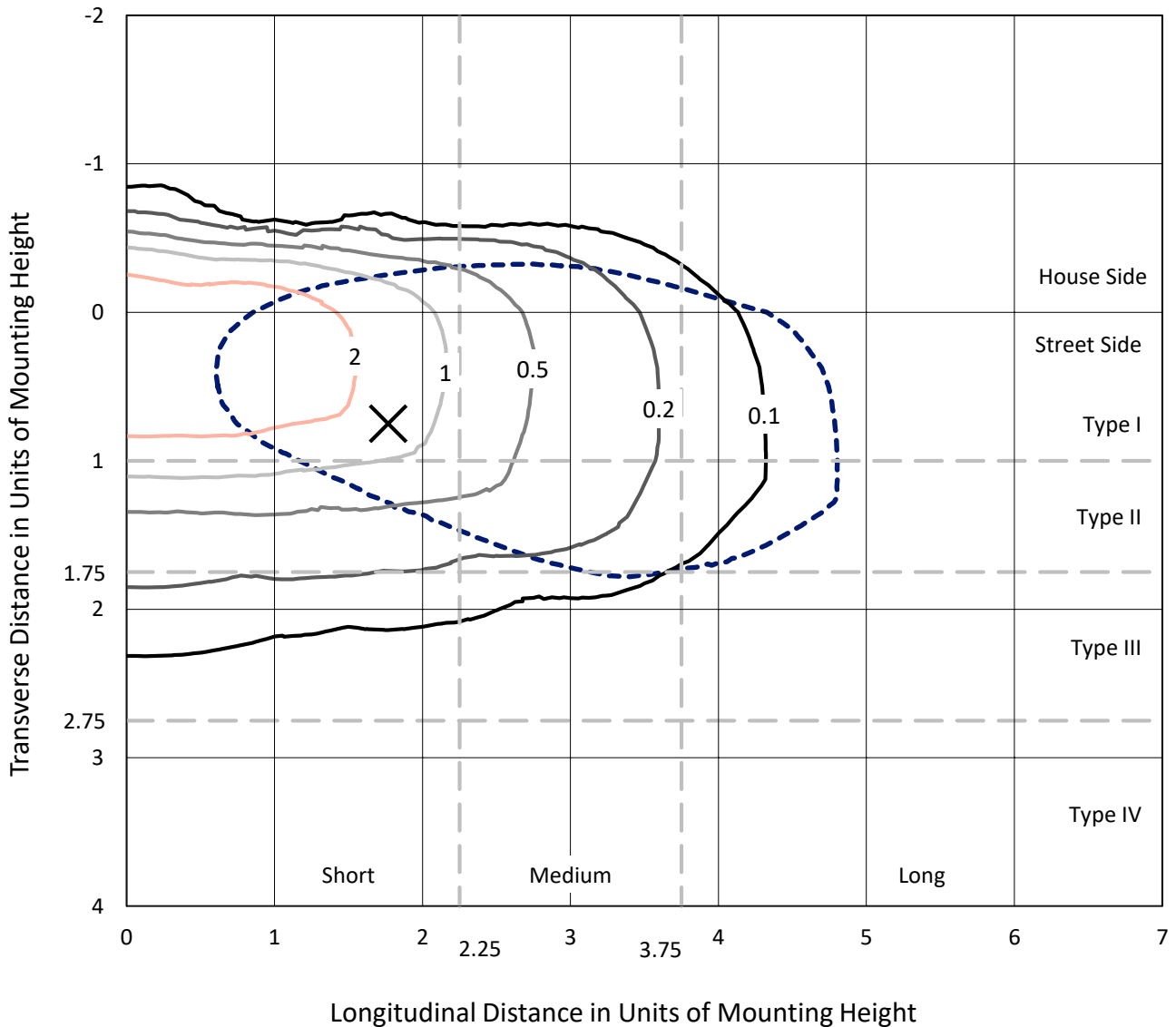
Input Watts (W): 113.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

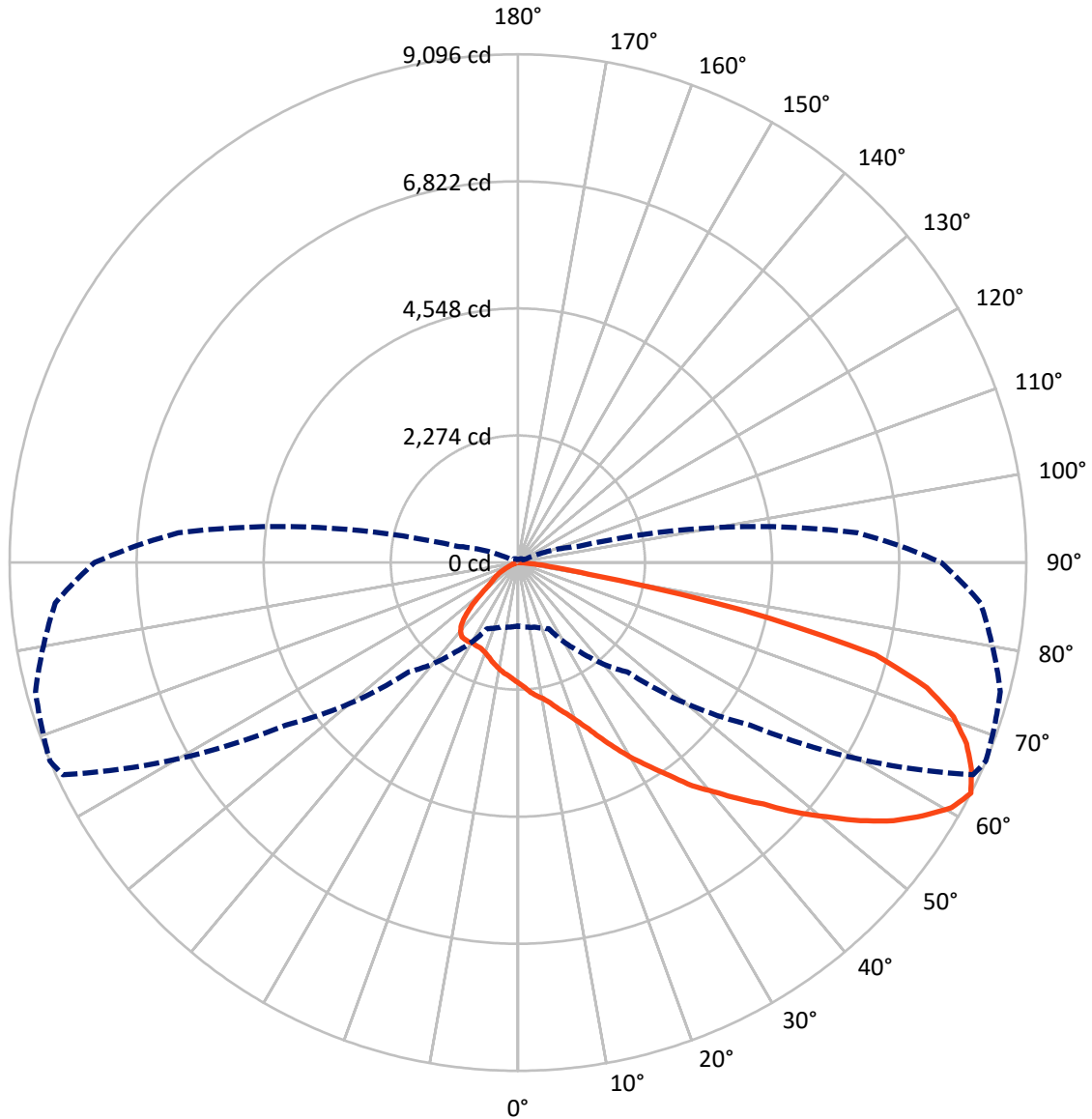
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

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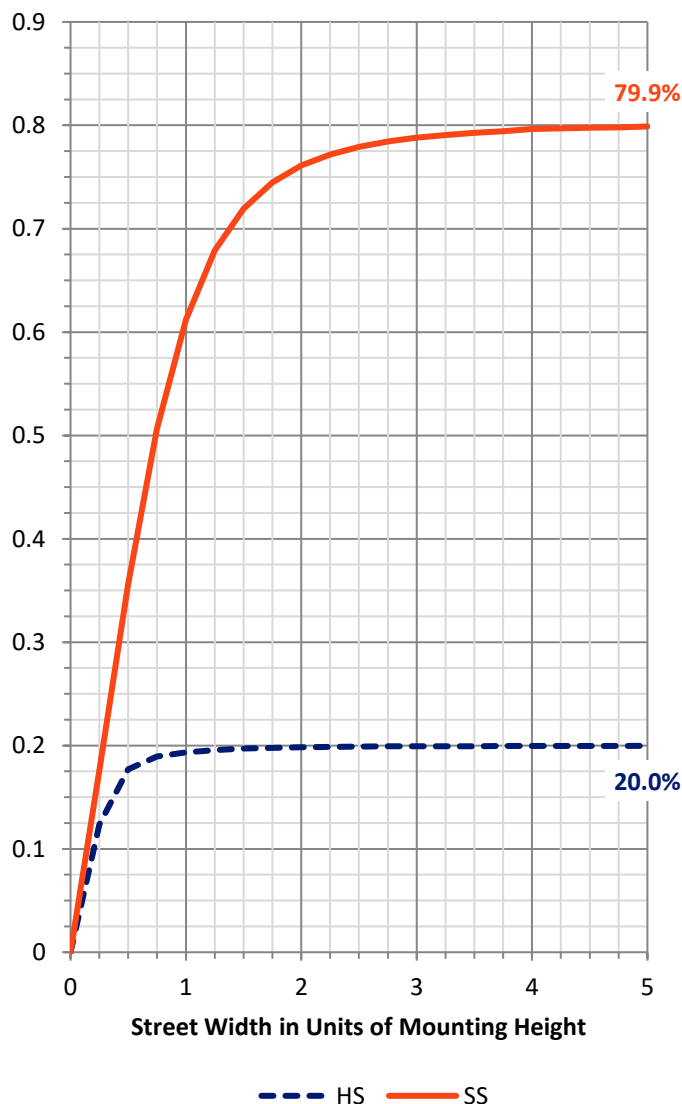
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2485.2	0.0	2485.2
	% Fixture	20.2	0.0	20.2
Street Side	Lumens	9812.8	0.0	9812.8
	% Fixture	79.8	0.0	79.8
Total	Lumens	12298.0	0.0	12298.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	208.8	1.7
10°-20°	629.7	5.1
20°-30°	1074.1	8.7
30°-40°	1573.6	12.8
40°-50°	2076.7	16.9
50°-60°	2443.9	19.9
60°-70°	2513.6	20.4
70°-80°	1628.5	13.2
80°-90°	149.1	1.2
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°	12298.0	100.0
0°-180°	12298.0	100.0

Coefficient of Utilization



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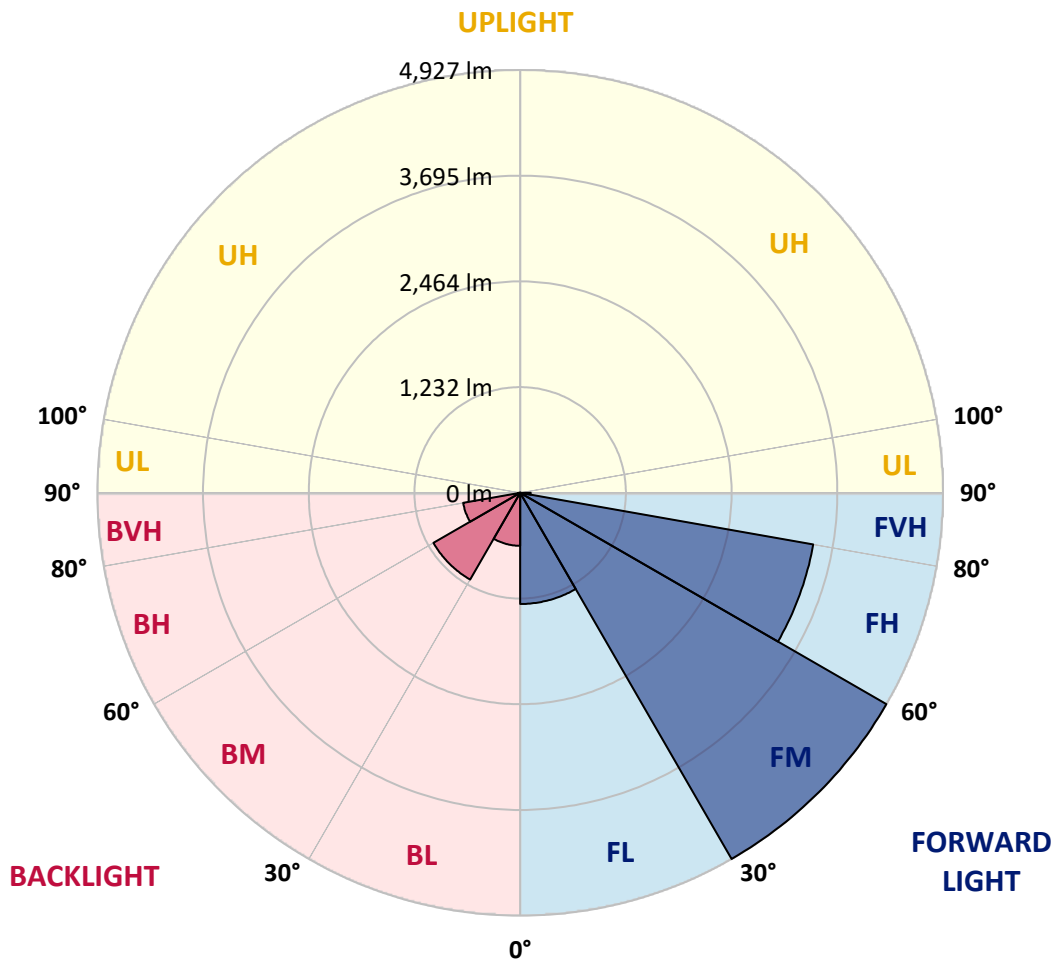
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1295.0	10.5			
FM (30°-60°)	4927.2	40.1			
FH (60°-80°)	3467.4	28.2			G2/5000
FVH (80°-90°)	123.3	1.0			G2/225
BL (0°-30°)	617.6	5.0	B2/1000		
BM (30°-60°)	1167.0	9.5	B2/2500		
BH (60°-80°)	674.7	5.5	B2/1000		G2/1000
BVH (80°-90°)	25.8	0.2			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 II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	2160.8	2160.8	2160.8	2160.8	2160.8	2160.8	2160.8	2160.8	2160.8	2160.8	2160.8
2.5°	2396.5	2393.9	2368.2	2344.2	2328.3	2327.4	2285.8	2248.6	2231.7	2212.2	2168.8
5°	2520.5	2541.8	2513.5	2478.0	2449.7	2428.4	2392.1	2349.6	2331.8	2285.8	2220.2
7.5°	2700.4	2700.4	2673.8	2643.7	2610.9	2554.2	2492.2	2417.8	2408.9	2357.5	2271.6
10°	2787.2	2808.5	2773.9	2738.5	2702.2	2672.9	2588.8	2497.5	2475.4	2398.3	2292.0
12.5°	2908.6	2908.6	2890.0	2859.9	2818.2	2759.8	2705.7	2613.6	2576.4	2461.2	2328.3
15°	3022.9	3013.1	2997.2	2947.6	2926.3	2890.0	2819.1	2722.5	2715.5	2587.9	2384.1
17.5°	3112.4	3096.4	3081.4	3054.8	3029.1	3014.9	2964.4	2880.2	2851.0	2734.1	2489.5
20°	3158.4	3171.7	3135.4	3134.5	3142.5	3131.9	3098.2	3035.3	3022.9	2883.8	2596.7
22.5°	3210.7	3228.4	3219.6	3228.4	3252.3	3270.1	3268.3	3255.0	3235.5	3084.0	2769.5
25°	3222.2	3210.7	3247.9	3330.3	3390.6	3433.1	3516.4	3499.5	3494.2	3360.4	3004.3
27.5°	3186.8	3197.4	3255.9	3374.6	3529.6	3645.7	3713.9	3798.1	3779.5	3675.8	3286.9
30°	3165.5	3184.1	3261.2	3400.3	3608.5	3818.5	3953.1	4057.7	4073.6	3991.2	3565.1
32.5°	3092.0	3116.8	3196.5	3420.7	3685.6	4003.6	4171.1	4366.0	4358.9	4325.2	3903.5
35°	2978.6	3011.4	3133.6	3394.1	3772.4	4170.2	4392.6	4676.1	4681.4	4695.6	4225.1
37.5°	2887.3	2898.0	3037.1	3315.2	3807.0	4304.9	4599.0	4982.6	5068.6	5048.2	4590.1
40°	2741.1	2773.0	2923.7	3218.7	3803.4	4396.1	4809.0	5341.4	5387.5	5451.3	4972.0
42.5°	2561.3	2595.9	2740.3	3087.6	3753.8	4475.9	5011.0	5707.3	5772.0	5872.1	5321.9
45°	2388.5	2403.6	2539.2	2896.2	3657.2	4538.8	5207.6	6067.9	6167.1	6310.7	5674.5
47.5°	2173.3	2214.0	2365.5	2696.0	3443.7	4561.8	5352.9	6493.2	6675.7	6763.4	6076.8
50°	1671.8	1697.5	2122.8	2519.7	3211.6	4490.0	5541.7	7032.7	7147.9	7239.1	6484.3
52.5°	1473.3	1496.4	1661.2	2315.9	2952.9	4304.0	5656.8	7534.2	7673.3	7653.8	6893.6
55°	1390.1	1401.6	1472.5	1889.7	2717.2	3958.5	5737.5	8081.7	8157.0	8031.2	7299.4
57.5°	1293.5	1306.8	1359.9	1584.1	2451.4	3520.8	5670.1	8520.2	8548.6	8392.7	7660.9
60°	1207.6	1216.4	1296.2	1417.5	2162.6	3096.4	5500.0	8835.6	8914.5	8658.4	8050.7
62.5°	1134.0	1155.3	1196.9	1304.1	1960.6	2767.7	5069.4	8984.5	9096.1	8936.6	8309.4
65°	1061.4	1071.1	1119.0	1213.8	1743.6	2573.7	4823.1	8788.7	8918.9	8973.8	8468.9
67.5°	962.1	976.3	1023.3	1091.5	1454.7	2385.0	4248.2	8470.6	8656.7	8778.1	8374.1
70°	846.1	858.5	906.3	963.0	1214.6	2106.8	3585.5	8146.4	8268.6	8276.6	7950.6
72.5°	711.4	722.9	770.8	827.5	1008.2	1754.2	2810.3	7378.2	7652.0	7825.6	7240.0
75°	452.7	502.3	621.1	684.8	830.1	1419.3	2004.9	5890.7	6610.1	7106.3	6265.5
77.5°	73.5	82.4	243.6	347.3	482.8	962.1	1113.6	3263.9	4105.5	5938.6	5058.8
80°	55.8	62.9	88.6	235.7	310.1	598.9	438.5	1059.6	1277.5	2776.6	2834.2
82.5°	23.9	28.4	53.2	132.0	146.2	159.5	117.8	474.0	560.8	844.3	983.4
85°	8.0	10.6	24.8	41.6	46.1	35.4	25.7	187.8	231.2	404.9	374.8
87.5°	0.0	0.9	5.3	6.2	5.3	3.5	2.7	1.8	1.8	2.7	2.7
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°	2160.8	2160.8	2160.8	2160.8	2160.8	2160.8	2160.8	2160.8	2160.8	2160.8	2160.8
2.5°	2160.0	2129.8	2126.3	2090.0	2057.2	2020.0	1996.9	1989.0	1999.6	2010.2	2020.9
5°	2186.5	2140.5	2094.4	2019.1	1985.4	1944.7	1890.6	1857.8	1842.8	1856.1	1860.5
7.5°	2206.0	2146.7	2075.8	1973.0	1900.4	1822.4	1771.0	1716.1	1686.0	1691.3	1695.7
10°	2209.6	2144.0	2023.5	1924.3	1807.4	1700.1	1632.8	1607.1	1586.7	1569.0	1571.7
12.5°	2242.4	2145.8	1979.2	1858.7	1735.6	1597.4	1522.1	1489.3	1485.7	1449.4	1445.9
15°	2286.7	2184.8	1956.2	1799.4	1641.7	1511.4	1422.0	1363.5	1365.3	1346.7	1344.0
17.5°	2358.4	2222.9	1939.4	1730.3	1543.3	1423.7	1310.3	1257.2	1240.3	1235.0	1230.6
20°	2439.0	2278.7	1919.0	1669.1	1457.4	1318.3	1191.6	1137.6	1090.6	1076.4	1078.2
22.5°	2557.8	2352.2	1935.8	1623.1	1361.7	1215.5	1089.7	984.3	903.7	882.4	879.8
25°	2767.7	2497.5	1986.3	1583.2	1302.4	1115.4	946.2	798.2	691.9	668.9	670.7
27.5°	3001.6	2688.9	2056.3	1566.4	1227.0	1004.7	771.7	606.9	507.7	481.1	482.8
30°	3278.9	2916.6	2162.6	1519.4	1146.4	843.4	575.0	444.7	367.7	336.7	338.4
32.5°	3545.6	3144.3	2299.1	1512.3	1045.4	633.5	415.5	323.4	260.5	237.4	240.1
35°	3839.7	3404.7	2442.6	1476.9	879.8	454.5	291.5	224.1	190.5	183.4	182.5
37.5°	4172.9	3636.8	2548.9	1444.1	658.3	319.8	199.3	172.8	168.3	158.6	158.6
40°	4482.1	3878.7	2628.6	1357.3	460.7	217.1	155.9	156.8	152.4	139.1	136.4
42.5°	4767.3	4128.6	2702.2	1218.2	311.9	148.0	140.0	142.6	144.4	129.3	125.8
45°	5090.7	4436.9	2686.2	1009.1	198.5	133.8	125.8	133.8	142.6	127.6	124.0
47.5°	5445.1	4662.8	2719.9	728.3	140.0	126.7	116.9	127.6	134.7	124.9	119.6
50°	5845.5	4958.7	2618.0	423.5	128.5	119.6	112.5	116.9	127.6	122.3	116.1
52.5°	6212.3	5222.7	2478.9	207.3	121.4	112.5	105.4	109.0	119.6	113.4	115.2
55°	6521.5	5497.4	2196.3	148.0	116.9	104.5	101.9	102.8	109.0	101.0	106.3
57.5°	6900.7	5723.3	1909.2	138.2	113.4	99.2	100.1	93.0	94.8	90.4	85.1
60°	7238.3	5936.8	1519.4	127.6	108.1	101.9	90.4	80.6	75.3	72.6	71.8
62.5°	7575.8	6098.9	1119.8	116.1	102.8	92.1	79.7	69.1	60.2	56.7	55.8
65°	7703.4	6185.7	764.6	106.3	96.6	84.2	70.9	55.8	46.1	42.5	39.9
67.5°	7608.6	5913.8	443.0	95.7	93.0	77.1	62.0	45.2	35.4	32.8	31.0
70°	7169.2	5486.7	236.6	86.8	81.5	68.2	54.9	37.2	28.4	24.8	23.9
72.5°	6413.4	4718.6	124.0	72.6	68.2	55.8	43.4	31.0	23.0	18.6	17.7
75°	5446.0	3704.2	86.8	53.2	47.0	43.4	32.8	24.8	18.6	14.2	13.3
77.5°	4298.7	2407.1	65.6	34.6	27.5	28.4	23.9	20.4	15.1	10.6	10.6
80°	2220.2	1251.0	49.6	23.0	15.9	16.8	16.8	15.1	11.5	8.0	8.0
82.5°	880.6	460.7	34.6	13.3	9.7	10.6	9.7	9.7	8.0	5.3	5.3
85°	290.6	101.0	12.4	8.0	6.2	6.2	5.3	4.4	2.7	1.8	1.8
87.5°	2.7	2.7	3.5	4.4	4.4	3.5	2.7	0.9	0.0	0.0	0.0
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)