

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: P509148

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

Issue Date: 3/4/2021

Test Information

Test Method: LM-79-08
Report Number: P509148
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2102-139-3)
Test Lab: INNOVATION CENTER
Issue Date: 3/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VERD-CA2-120-722-U-T2-HSS
Description: VERDEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2200K, 1120mA LEDS AND TYPE II OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12714 lumens
Efficiency: N/A
Efficacy: 103.6 lumens/watt
Luminous Opening: Rectangular (W 0.79' x L: 1.25' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

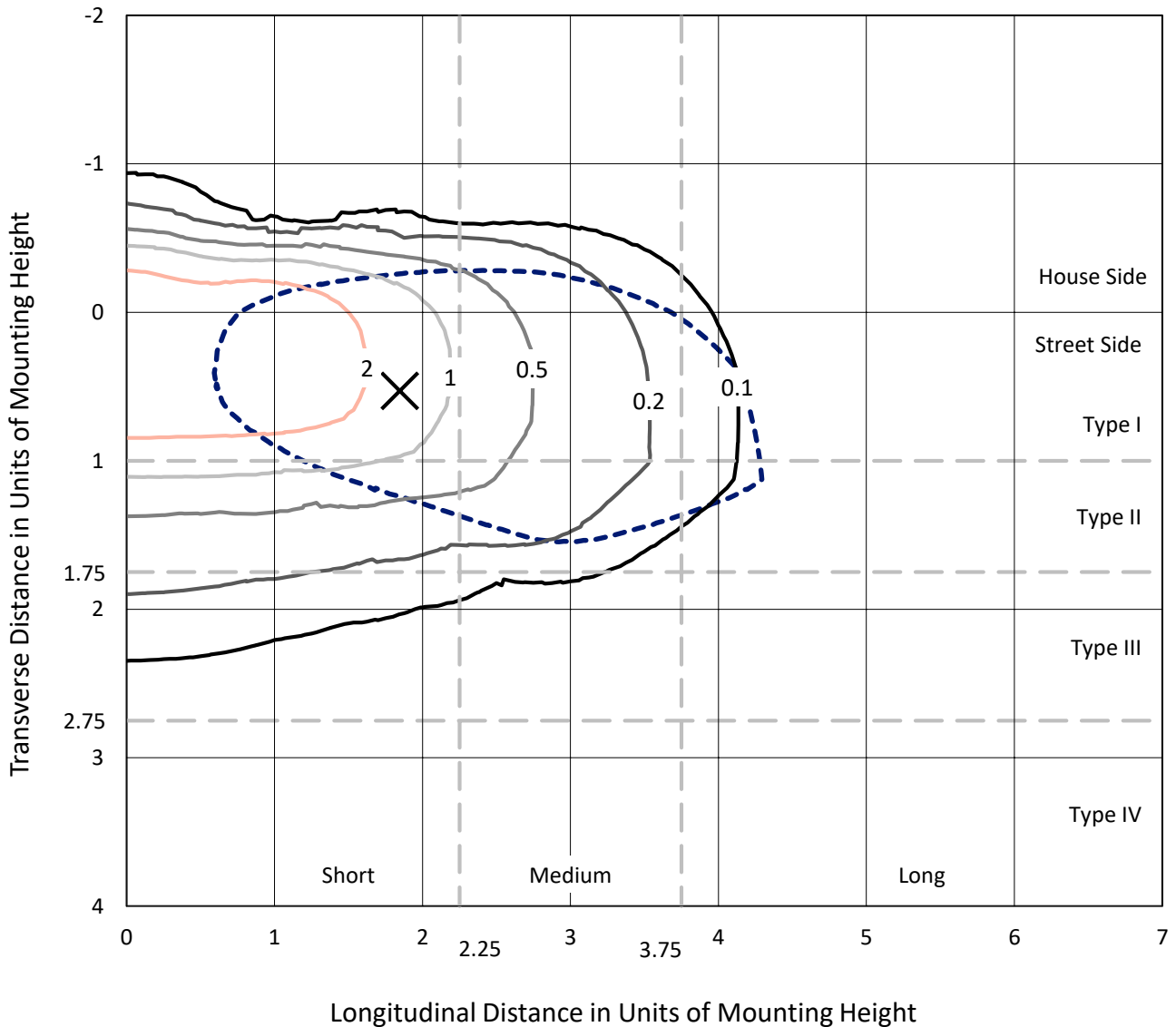
Input Watts (W): 122.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

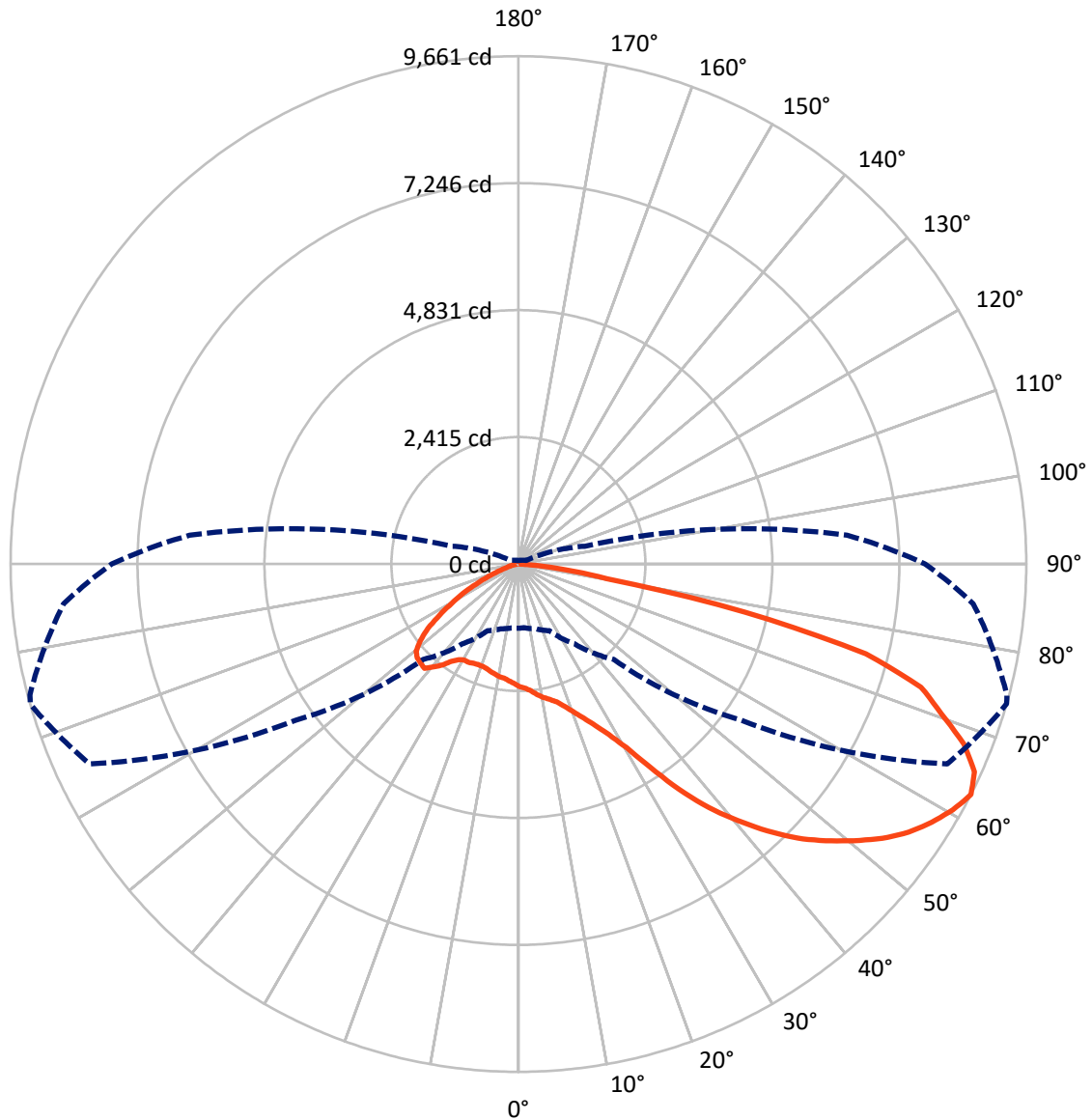
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.6 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 74-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

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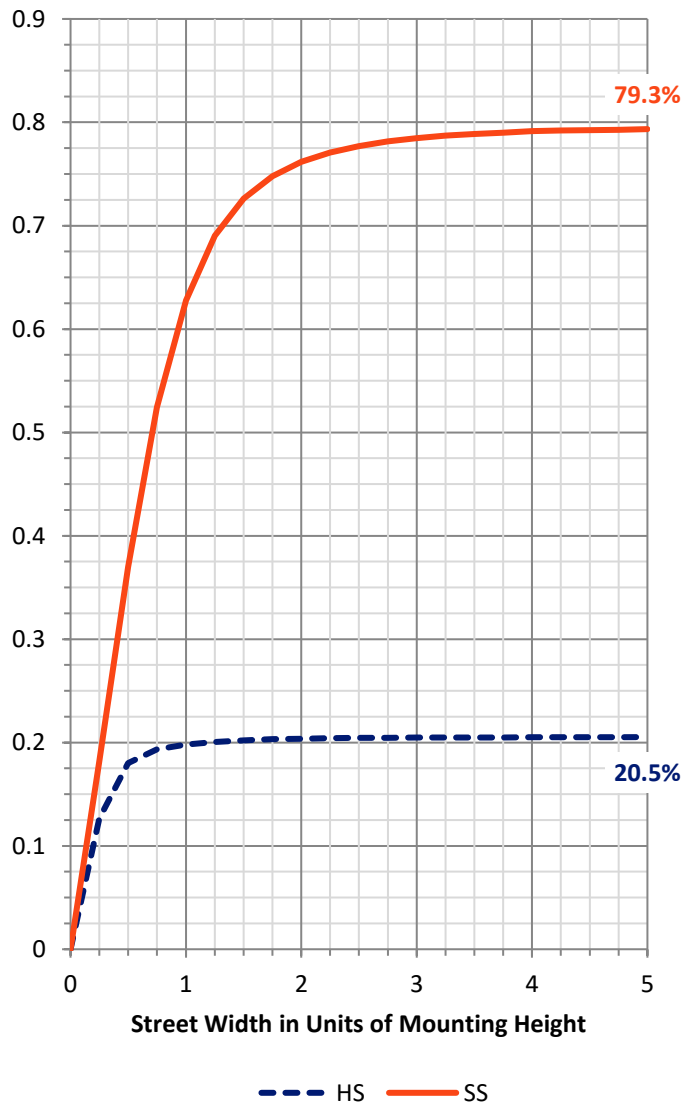
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2640.1	0.0	2640.1
	% Fixture	20.8	0.0	20.8
Street Side	Lumens	10073.9	0.0	10073.9
	% Fixture	79.2	0.0	79.2
Total	Lumens	12714.0	0.0	12714.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	222.2	1.7
10°-20°	671.0	5.3
20°-30°	1132.9	8.9
30°-40°	1685.1	13.3
40°-50°	2280.7	17.9
50°-60°	2623.9	20.6
60°-70°	2532.7	19.9
70°-80°	1434.0	11.3
80°-90°	131.5	1.0
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°	12714.0	100.0
0°-180°	12714.0	100.0



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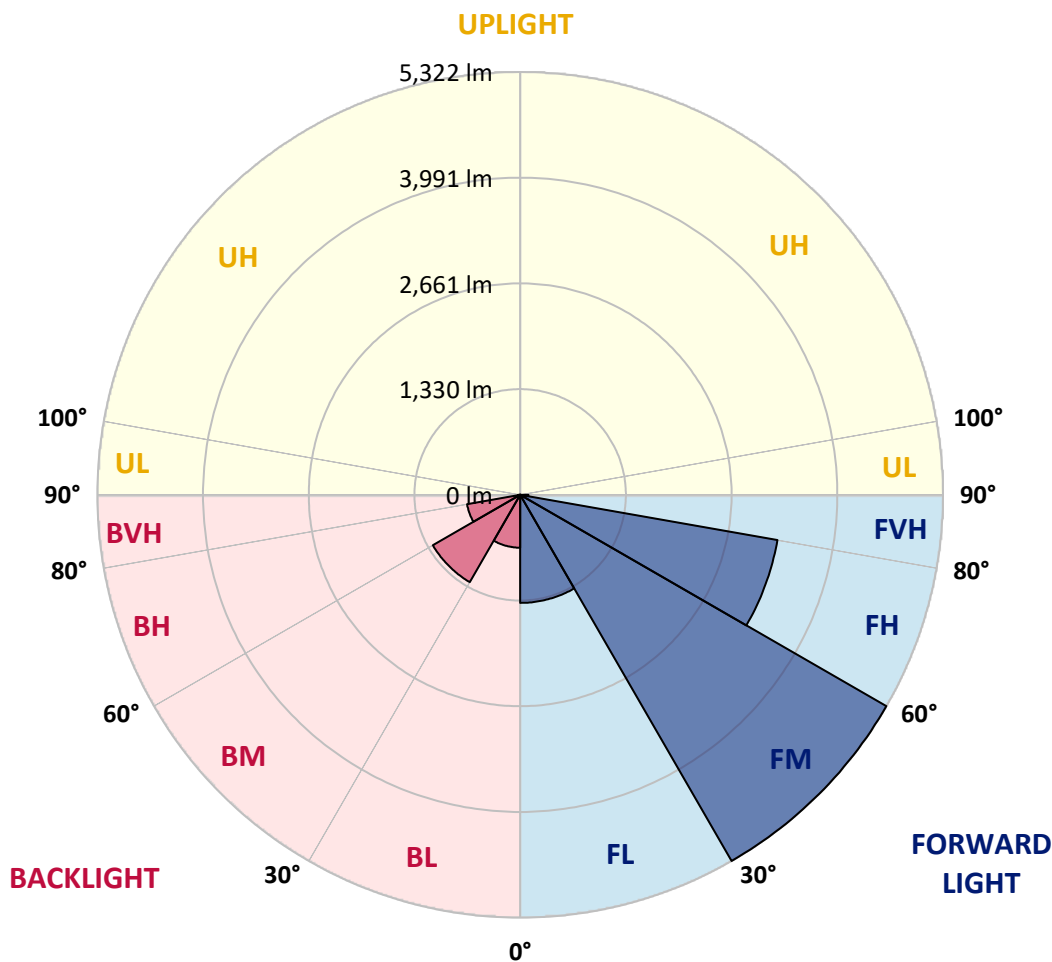
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1360.4	10.7			
FM	(30°-60°)	5321.8	41.9			
FH	(60°-80°)	3288.0	25.9			G2/5000
FVH	(80°-90°)	103.6	0.8			G2/225
BL	(0°-30°)	665.7	5.2	B2/1000		
BM	(30°-60°)	1267.8	10.0	B2/2500		
BH	(60°-80°)	678.7	5.3	B2/1000		G2/1000
BVH	(80°-90°)	27.9	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°	74°	75°	85°
0°	2330.4	2330.4	2330.4	2330.4	2330.4	2330.4	2330.4	2330.4	2330.4	2330.4	2330.4
2.5°	2541.0	2524.4	2510.7	2503.1	2481.9	2463.8	2427.4	2389.5	2363.7	2362.2	2338.0
5°	2647.1	2645.6	2615.3	2609.2	2580.4	2571.3	2535.0	2480.4	2416.8	2409.2	2344.1
7.5°	2786.5	2769.8	2736.5	2722.9	2689.5	2665.3	2616.8	2565.3	2501.6	2494.1	2380.4
10°	2921.4	2912.3	2892.6	2894.1	2847.1	2801.6	2728.9	2641.0	2580.4	2571.3	2431.9
12.5°	3077.4	3048.6	3015.3	2997.1	2950.1	2921.4	2851.6	2736.5	2641.0	2631.9	2492.5
15°	3185.0	3169.8	3139.5	3127.4	3082.0	3035.0	2954.7	2865.3	2721.3	2712.2	2554.7
17.5°	3300.2	3292.6	3257.7	3250.2	3206.2	3150.1	3088.0	2971.4	2845.6	2830.4	2628.9
20°	3377.4	3363.8	3359.2	3357.7	3345.6	3310.8	3232.0	3141.1	3001.7	2974.4	2724.4
22.5°	3480.5	3466.8	3472.9	3479.0	3495.6	3480.5	3428.9	3321.4	3183.5	3159.2	2874.4
25°	3491.1	3482.0	3522.9	3607.7	3641.1	3657.7	3618.4	3535.0	3401.7	3369.9	3053.2
27.5°	3519.9	3506.2	3550.2	3639.6	3789.6	3815.3	3822.9	3783.5	3671.4	3653.2	3295.6
30°	3468.3	3459.3	3527.4	3680.5	3848.7	3994.1	4050.2	4104.7	4053.2	4021.4	3633.5
32.5°	3342.6	3348.6	3438.0	3641.1	3951.7	4176.0	4321.4	4513.8	4606.3	4600.2	4232.0
35°	3159.2	3156.2	3306.2	3592.6	3960.8	4347.2	4618.4	5009.3	5268.4	5250.2	4860.8
37.5°	3003.2	2995.6	3165.3	3469.9	3968.4	4483.5	4966.9	5550.3	5879.1	5860.9	5374.5
40°	2812.3	2824.4	2975.9	3327.4	3904.7	4585.1	5269.9	6076.0	6412.4	6412.4	5906.3
42.5°	2619.8	2630.4	2780.4	3128.9	3812.3	4659.3	5554.8	6600.3	6942.8	6950.3	6271.5
45°	2451.6	2456.2	2592.5	2906.2	3645.6	4671.4	5816.9	7126.1	7439.7	7420.0	6688.2
47.5°	2156.2	2206.2	2419.8	2706.2	3418.3	4618.4	6038.2	7594.3	7867.0	7826.1	7085.2
50°	1718.3	1718.3	2013.7	2515.3	3157.7	4477.5	6212.4	8021.6	8273.1	8235.2	7432.2
52.5°	1578.9	1581.9	1672.8	2247.1	2894.1	4235.0	6312.4	8445.9	8671.6	8645.9	7761.0
55°	1504.6	1509.2	1551.6	1821.3	2654.7	3863.8	6315.4	8774.7	9009.5	8951.9	8038.3
57.5°	1392.5	1384.9	1474.3	1622.8	2374.4	3385.0	6167.0	9029.2	9271.6	9227.7	8265.5
60°	1313.7	1301.6	1362.2	1495.5	2072.8	2889.5	5771.5	9214.1	9495.9	9521.7	8488.3
62.5°	1221.3	1216.7	1274.3	1400.1	1850.1	2565.3	5177.5	8998.9	9661.1	9620.2	8685.3
65°	1128.8	1119.7	1174.3	1272.8	1634.9	2300.1	4579.0	8680.7	9533.8	9570.1	8724.7
67.5°	1007.6	1006.1	1057.6	1130.4	1400.1	2003.1	3712.3	8262.5	9139.8	9114.1	8367.1
70°	860.6	860.6	912.2	975.8	1169.8	1709.2	2850.1	7545.8	8533.7	8683.7	7754.9
72.5°	695.5	698.5	750.0	822.8	965.2	1392.5	2101.6	6562.4	8008.0	7767.0	6891.2
75°	371.2	333.3	587.9	662.2	778.8	1110.7	1437.9	4266.9	6829.1	6662.4	5716.9
77.5°	89.4	93.9	184.9	344.0	415.2	615.2	707.6	1975.9	4403.2	4668.4	4077.5
80°	59.1	65.2	100.0	244.0	277.3	327.3	280.3	860.6	1707.7	1819.8	2366.8
82.5°	30.3	33.3	62.1	97.0	98.5	84.9	106.1	433.4	903.1	978.8	1137.9
85°	10.6	16.7	31.8	42.4	39.4	31.8	25.8	107.6	213.6	237.9	247.0
87.5°	0.0	0.0	4.5	4.5	3.0	3.0	4.5	4.5	6.1	4.5	4.5
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°	2330.4	2330.4	2330.4	2330.4	2330.4	2330.4	2330.4	2330.4	2330.4	2330.4	2330.4
2.5°	2318.3	2301.6	2275.9	2248.6	2219.8	2195.6	2181.9	2189.5	2198.6	2169.8	2159.2
5°	2313.7	2285.0	2236.5	2178.9	2134.9	2091.0	2039.5	2027.4	2015.2	2000.1	1983.4
7.5°	2335.0	2292.5	2194.0	2141.0	2048.6	1966.8	1921.3	1888.0	1857.7	1830.4	1813.7
10°	2374.4	2295.6	2185.0	2077.4	1975.9	1875.8	1777.4	1757.7	1751.6	1712.2	1683.4
12.5°	2400.1	2303.1	2153.1	2022.8	1877.4	1769.8	1671.3	1615.2	1610.7	1592.5	1572.8
15°	2441.0	2333.4	2131.9	1954.6	1777.4	1663.7	1572.8	1500.1	1463.7	1462.2	1447.0
17.5°	2515.3	2368.3	2098.6	1884.9	1697.0	1569.8	1439.5	1412.2	1351.6	1316.7	1307.6
20°	2591.0	2419.8	2089.5	1815.2	1592.5	1434.9	1334.9	1259.2	1210.7	1174.3	1151.6
22.5°	2689.5	2494.1	2092.5	1774.3	1507.6	1333.4	1203.1	1091.0	1001.6	957.6	936.4
25°	2832.0	2580.4	2115.3	1712.2	1407.6	1224.3	1034.9	886.4	760.6	728.8	713.7
27.5°	3013.8	2701.6	2147.1	1648.6	1315.2	1077.3	831.9	665.2	560.6	536.4	521.2
30°	3292.6	2883.5	2151.6	1609.2	1231.9	886.4	622.8	492.4	410.6	384.9	387.9
32.5°	3816.8	3272.9	2212.2	1527.3	1083.4	680.3	457.6	359.1	297.0	287.9	303.0
35°	4426.0	3732.0	2328.9	1484.9	913.7	492.4	327.3	263.6	224.3	236.4	242.4
37.5°	4818.4	4136.6	2515.3	1387.9	715.2	362.1	228.8	206.1	198.5	206.1	219.7
40°	5276.0	4465.4	2674.4	1289.5	507.6	248.5	183.3	187.9	178.8	177.3	183.3
42.5°	5647.2	4803.3	2844.1	1127.3	353.0	184.9	168.2	171.2	165.2	157.6	157.6
45°	6000.3	5095.7	2842.6	909.1	233.3	163.6	154.6	160.6	159.1	148.5	147.0
47.5°	6309.4	5391.2	2844.1	660.6	177.3	150.0	143.9	150.0	150.0	140.9	139.4
50°	6692.7	5636.6	2798.6	422.7	162.1	139.4	137.9	136.4	142.4	130.3	127.3
52.5°	6927.6	5815.4	2594.1	284.9	150.0	131.8	128.8	125.8	128.8	118.2	118.2
55°	7185.2	6038.2	2327.4	225.8	142.4	122.7	121.2	118.2	118.2	106.1	107.6
57.5°	7465.5	6220.0	1968.3	198.5	136.4	116.7	113.6	109.1	103.0	93.9	92.4
60°	7668.5	6257.9	1610.7	180.3	131.8	113.6	101.5	95.5	84.9	78.8	77.3
62.5°	7736.7	6277.6	1306.1	162.1	124.2	104.6	90.9	80.3	68.2	63.6	63.6
65°	7680.7	6050.3	978.8	147.0	115.2	97.0	80.3	65.2	53.0	48.5	47.0
67.5°	7320.0	5632.1	712.2	131.8	101.5	87.9	69.7	53.0	42.4	37.9	37.9
70°	6664.0	5139.6	481.8	110.6	87.9	77.3	65.2	42.4	34.9	30.3	28.8
72.5°	5948.8	4357.8	307.6	89.4	68.2	60.6	47.0	36.4	28.8	22.7	22.7
75°	4704.8	3422.9	213.6	65.2	48.5	45.5	36.4	30.3	24.2	18.2	18.2
77.5°	3274.4	2224.3	168.2	50.0	33.3	30.3	27.3	22.7	19.7	15.2	13.6
80°	1898.6	1337.9	101.5	33.3	22.7	19.7	18.2	18.2	15.2	10.6	10.6
82.5°	942.5	557.6	43.9	21.2	15.2	13.6	12.1	10.6	10.6	7.6	7.6
85°	184.9	95.5	16.7	10.6	7.6	7.6	6.1	6.1	4.5	3.0	3.0
87.5°	6.1	4.5	4.5	4.5	3.0	3.0	1.5	0.0	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)