

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: P509053

Luminaire Tested: **VERD-CA2-100-722-U-T2**

Issue Date: 3/4/2021

Test Information

Test Method: LM-79-08
Report Number: P509053
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2102-139-2)
Test Lab: INNOVATION CENTER
Issue Date: 3/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VERD-CA2-100-722-U-T2
Description: VERDEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2200K, 1370mA LEDS AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11297 lumens
Efficiency: N/A
Efficacy: 109.3 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

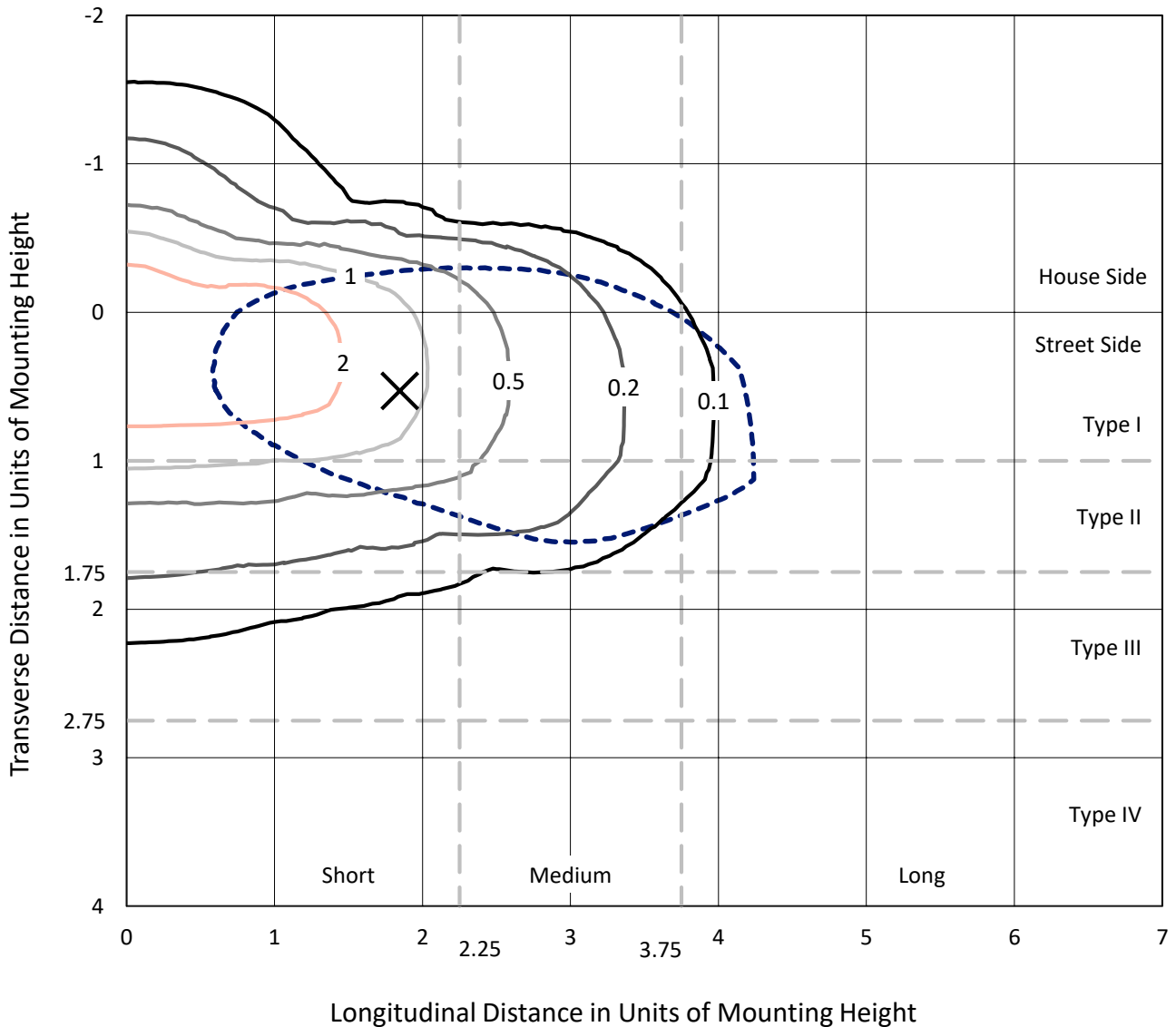
Input Watts (W): 103.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

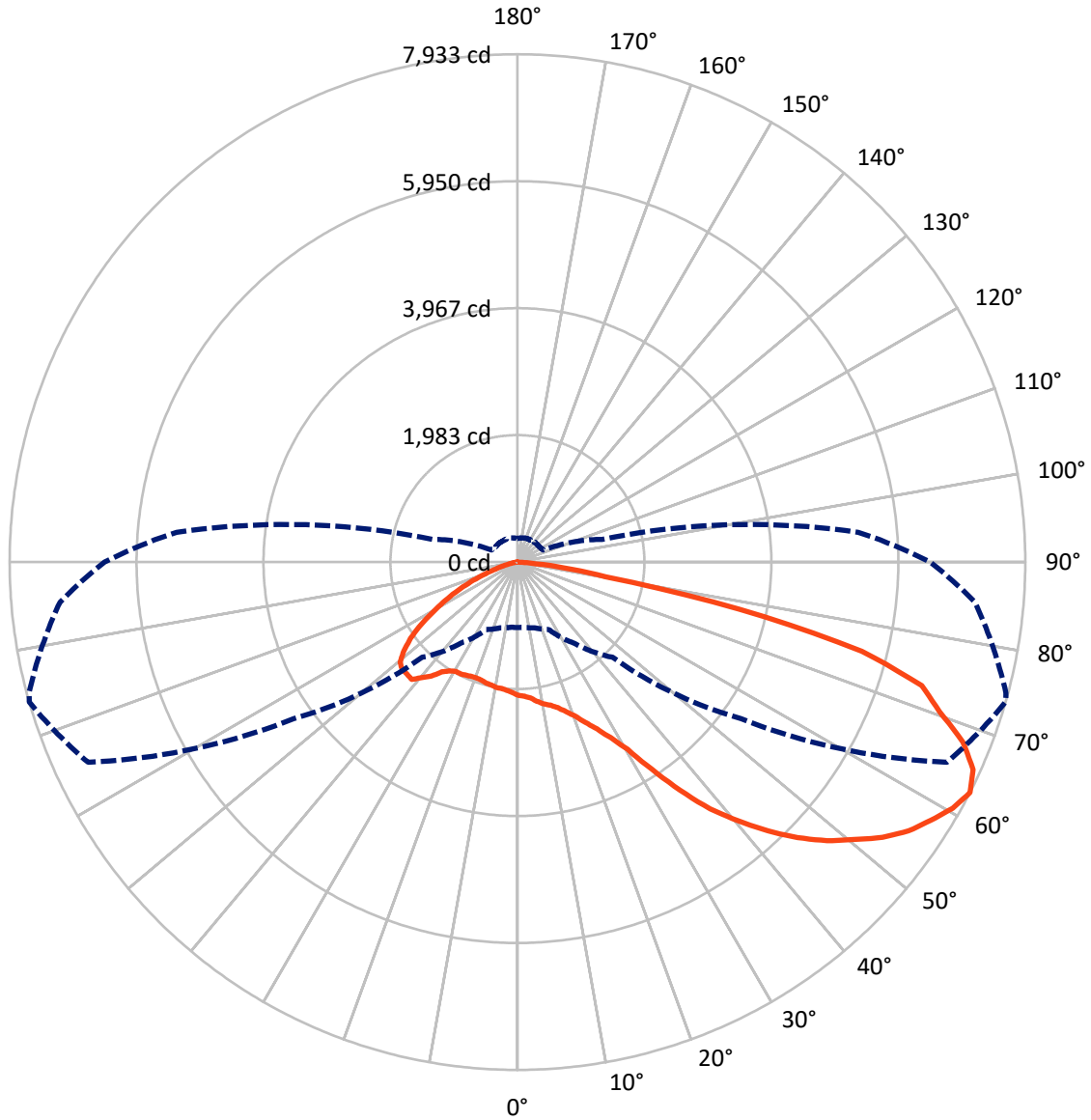
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.9 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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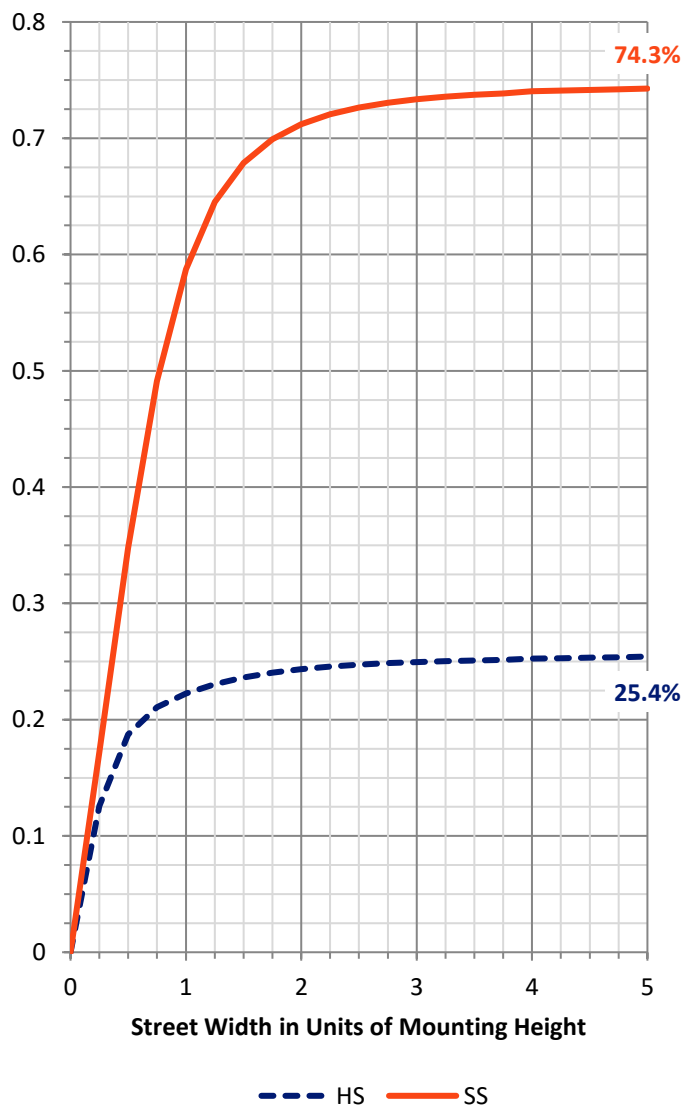
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2917.0	0.0	2917.0
	% Fixture	25.8	0.0	25.8
Street Side	Lumens	8380.0	0.0	8380.0
	% Fixture	74.2	0.0	74.2
Total	Lumens	11297.0	0.0	11297.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	200.2	1.8
10°-20°	610.3	5.4
20°-30°	1029.1	9.1
30°-40°	1503.5	13.3
40°-50°	2001.9	17.7
50°-60°	2303.9	20.4
60°-70°	2226.3	19.7
70°-80°	1281.6	11.3
80°-90°	140.2	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°	11297.0	100.0
0°-180°	11297.0	100.0

Coefficient of Utilization



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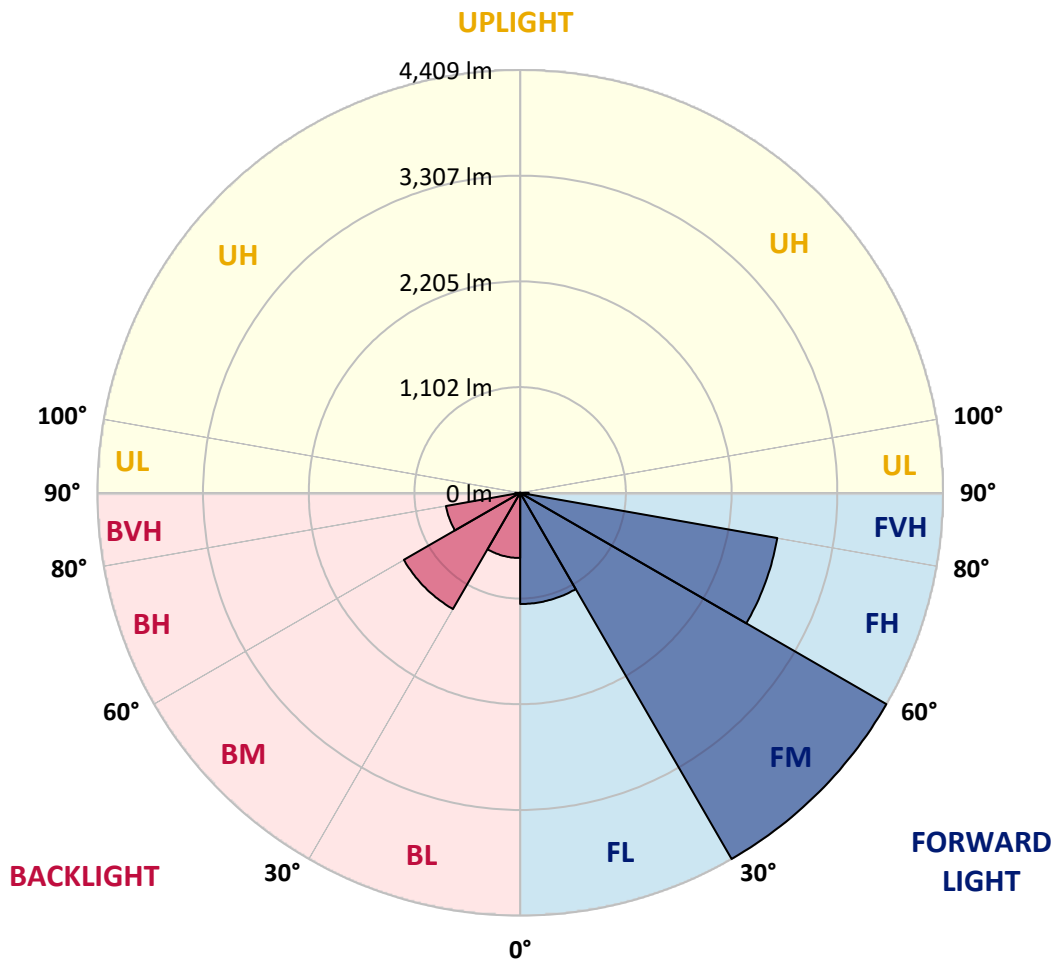
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1159.4	10.3			
FM (30°-60°)	4409.2	39.0			
FH (60°-80°)	2722.7	24.1			G2/5000
FVH (80°-90°)	88.7	0.8			G1/100
BL (0°-30°)	680.1	6.0	B2/1000		
BM (30°-60°)	1400.1	12.4	B2/2500		
BH (60°-80°)	785.3	7.0	B2/1000		G2/1000
BVH (80°-90°)	51.5	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: 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°	2083.1	2083.1	2083.1	2083.1	2083.1	2083.1	2083.1	2083.1	2083.1	2083.1	2083.1
2.5°	2229.7	2213.7	2203.8	2192.7	2179.2	2174.3	2144.7	2118.8	2097.9	2099.1	2085.6
5°	2311.0	2293.8	2271.6	2267.9	2250.6	2246.9	2218.6	2178.0	2132.4	2126.2	2085.6
7.5°	2402.2	2392.3	2378.8	2361.5	2333.2	2314.7	2274.0	2242.0	2195.2	2189.0	2109.0
10°	2513.0	2505.6	2495.8	2495.8	2458.8	2419.4	2370.1	2290.1	2253.1	2246.9	2149.6
12.5°	2643.6	2621.4	2589.4	2570.9	2536.4	2511.8	2458.8	2373.8	2293.8	2291.3	2187.8
15°	2728.6	2710.1	2689.2	2681.8	2637.5	2596.8	2540.1	2472.4	2360.3	2351.7	2234.6
17.5°	2823.5	2806.2	2781.6	2768.0	2739.7	2692.9	2642.4	2553.7	2453.9	2445.3	2287.6
20°	2876.4	2858.0	2850.6	2853.0	2843.2	2819.8	2759.4	2679.3	2564.8	2553.7	2360.3
22.5°	2935.6	2923.2	2925.7	2944.2	2962.7	2954.0	2907.2	2818.5	2720.0	2702.7	2477.3
25°	2936.8	2926.9	2960.2	3031.7	3071.1	3090.8	3066.1	2993.5	2888.8	2872.7	2626.4
27.5°	2957.7	2943.0	2978.7	3053.8	3173.3	3214.0	3222.6	3195.5	3105.6	3085.9	2805.0
30°	2903.5	2893.7	2947.9	3078.5	3218.9	3354.4	3403.7	3445.6	3395.1	3396.3	3080.9
32.5°	2809.9	2792.7	2875.2	3035.4	3296.5	3481.3	3611.9	3780.6	3858.2	3850.9	3561.4
35°	2631.3	2641.1	2752.0	2997.2	3299.0	3610.6	3866.9	4168.7	4379.3	4374.4	4059.0
37.5°	2504.4	2499.5	2630.1	2890.0	3297.7	3725.2	4114.5	4617.1	4889.3	4881.9	4486.5
40°	2351.7	2352.9	2483.5	2756.9	3239.8	3796.7	4370.7	5042.1	5319.3	5308.2	4895.5
42.5°	2187.8	2192.7	2314.7	2594.3	3159.8	3850.9	4599.8	5472.0	5740.6	5750.4	5223.2
45°	2041.2	2043.7	2164.4	2420.6	3018.1	3857.0	4805.6	5878.5	6139.7	6116.3	5566.9
47.5°	1825.6	1828.1	2006.7	2255.6	2830.9	3806.5	4975.6	6265.3	6504.3	6455.0	5857.6
50°	1430.2	1435.1	1647.0	2084.3	2603.0	3690.7	5109.8	6628.7	6813.5	6792.6	6155.7
52.5°	1320.6	1316.9	1405.6	1879.8	2398.5	3481.3	5194.8	6955.2	7142.4	7140.0	6402.1
55°	1265.1	1261.4	1291.0	1523.8	2197.7	3170.9	5192.4	7209.0	7414.7	7364.2	6627.5
57.5°	1166.6	1159.2	1235.6	1350.1	1973.5	2784.0	5069.2	7436.9	7611.8	7597.0	6830.8
60°	1096.4	1090.2	1142.0	1247.9	1734.5	2391.1	4752.6	7555.1	7810.1	7816.3	7002.0
62.5°	1023.7	1020.0	1064.3	1162.9	1547.2	2104.0	4264.8	7399.9	7933.3	7900.0	7173.2
65°	941.2	938.7	980.6	1060.6	1361.2	1886.0	3786.8	7122.7	7822.4	7860.6	7195.4
67.5°	842.6	841.4	882.0	937.5	1158.0	1666.7	3055.1	6796.3	7505.8	7464.0	6910.8
70°	721.9	717.0	767.5	819.2	969.5	1417.9	2377.5	6216.1	6990.9	7142.4	6344.2
72.5°	607.3	604.9	652.9	691.1	803.2	1158.0	1734.5	5375.9	6605.3	6387.3	5715.9
75°	475.5	463.2	513.7	549.4	633.2	921.4	1182.6	3590.9	5559.5	5513.9	4801.9
77.5°	192.2	223.0	266.1	298.1	353.5	522.3	618.4	1703.7	3546.6	3703.0	3339.6
80°	73.9	78.8	189.7	214.3	237.8	300.6	237.8	718.2	1399.4	1526.3	1934.1
82.5°	41.9	46.8	93.6	89.9	88.7	76.4	88.7	352.3	730.5	800.7	933.8
85°	23.4	25.9	38.2	41.9	35.7	30.8	27.1	92.4	182.3	172.5	193.4
87.5°	3.7	4.9	6.2	6.2	3.7	3.7	3.7	4.9	4.9	4.9	6.2
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°	2083.1	2083.1	2083.1	2083.1	2083.1	2083.1	2083.1	2083.1	2083.1	2083.1	2083.1
2.5°	2072.0	2058.5	2044.9	2028.9	2009.2	1996.9	1991.9	1998.1	2015.4	1994.4	1977.2
5°	2064.6	2046.2	2015.4	1984.6	1959.9	1939.0	1910.6	1908.2	1913.1	1904.5	1882.3
7.5°	2080.6	2053.5	1990.7	1969.8	1918.0	1868.8	1852.7	1846.6	1831.8	1814.6	1793.6
10°	2112.7	2057.2	1993.2	1931.6	1883.5	1830.6	1769.0	1770.2	1764.1	1744.3	1724.6
12.5°	2128.7	2063.4	1969.8	1904.5	1830.6	1765.3	1704.9	1677.8	1688.9	1672.9	1651.9
15°	2158.3	2089.3	1961.2	1865.1	1764.1	1690.1	1644.6	1605.1	1580.5	1584.2	1571.9
17.5°	2213.7	2112.7	1939.0	1821.9	1712.3	1624.8	1537.4	1533.7	1496.7	1475.8	1457.3
20°	2271.6	2154.6	1936.5	1775.1	1628.5	1520.1	1449.9	1410.5	1388.3	1371.1	1357.5
22.5°	2346.7	2212.5	1945.1	1748.0	1553.4	1431.4	1341.5	1288.5	1252.8	1240.5	1230.6
25°	2452.7	2285.1	1968.5	1700.0	1474.6	1334.1	1212.2	1156.7	1116.1	1106.2	1098.8
27.5°	2598.0	2377.5	1991.9	1648.3	1382.2	1197.4	1068.0	1013.8	968.3	967.0	953.5
30°	2827.2	2519.2	2000.6	1602.7	1283.6	1050.8	921.4	870.9	836.4	822.9	832.8
32.5°	3254.6	2832.1	2054.8	1532.5	1159.2	907.9	798.3	757.6	719.4	704.6	714.5
35°	3716.6	3206.6	2145.9	1484.4	1022.5	772.4	697.2	649.2	602.4	595.0	591.3
37.5°	4055.3	3547.8	2318.4	1405.6	893.1	689.9	591.3	551.9	524.8	510.0	523.5
40°	4439.7	3831.1	2449.0	1321.8	761.3	602.4	492.8	480.4	468.1	458.3	473.0
42.5°	4744.0	4123.1	2604.2	1210.9	655.4	511.2	438.5	448.4	454.6	449.6	450.9
45°	5023.6	4339.9	2614.0	1042.2	559.3	443.5	422.5	442.2	457.0	454.6	453.3
47.5°	5297.1	4598.6	2637.5	863.5	490.3	426.2	423.8	438.5	458.3	462.0	462.0
50°	5579.2	4795.7	2601.7	694.8	464.4	428.7	427.5	426.2	450.9	452.1	455.8
52.5°	5791.1	4955.8	2433.0	574.1	463.2	436.1	433.6	421.3	432.4	441.0	434.9
55°	6015.3	5155.4	2219.8	528.5	460.7	438.5	448.4	427.5	420.1	412.7	420.1
57.5°	6228.4	5294.6	1940.2	501.4	450.9	434.9	454.6	426.2	410.2	389.3	381.9
60°	6392.2	5326.6	1628.5	473.0	438.5	426.2	427.5	417.6	396.7	370.8	359.7
62.5°	6447.7	5345.1	1369.8	445.9	413.9	412.7	402.8	399.1	390.5	374.5	369.6
65°	6400.8	5135.7	1093.9	412.7	393.0	394.2	379.4	367.1	347.4	321.5	319.1
67.5°	6079.3	4767.4	838.9	370.8	360.9	373.3	357.2	336.3	314.1	296.9	299.3
70°	5528.7	4331.3	588.8	312.9	324.0	346.2	340.0	312.9	288.3	273.5	275.9
72.5°	4916.4	3669.8	400.4	243.9	263.6	310.4	310.4	292.0	267.3	247.6	242.7
75°	3878.0	2882.6	258.7	161.4	173.7	253.8	274.7	246.4	219.3	207.0	202.0
77.5°	2632.5	1877.4	165.1	92.4	115.8	166.3	216.8	220.5	259.9	261.2	250.1
80°	1547.2	1074.2	101.0	54.2	57.9	96.1	173.7	218.0	275.9	194.6	178.6
82.5°	769.9	458.3	45.6	33.3	34.5	48.0	93.6	250.1	213.1	122.0	117.0
85°	171.2	75.1	18.5	17.2	19.7	24.6	48.0	207.0	130.6	98.6	96.1
87.5°	6.2	4.9	4.9	4.9	3.7	3.7	9.9	67.8	51.7	43.1	40.7
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)