

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: P509407

Luminaire Tested: **VERD-CA2-90-730-U-T3**

Issue Date: 3/4/2021

Test Information

Test Method: LM-79-08
Report Number: P509407
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2102-139-4)
Test Lab: INNOVATION CENTER
Issue Date: 3/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VERD-CA2-90-730-U-T3
Description: VERDEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 1250mA LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12732 lumens
Efficiency: N/A
Efficacy: 135.2 lumens/watt
Luminous Opening: Rectangular (W 0.79' x L: 1.25' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

Input Watts (W): 94.2
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

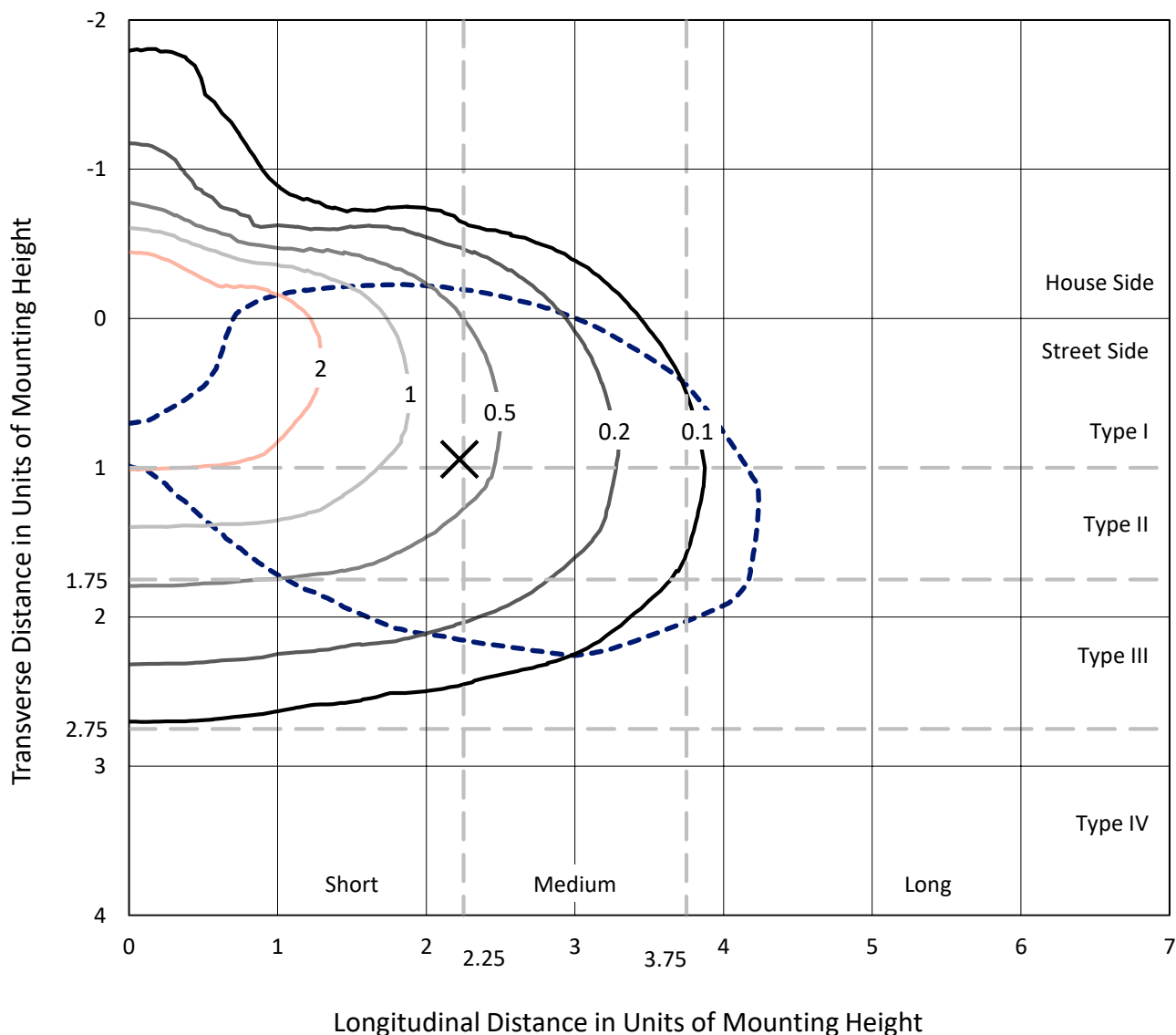


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Iso-Footcandle Lines of Horizontal Illumination

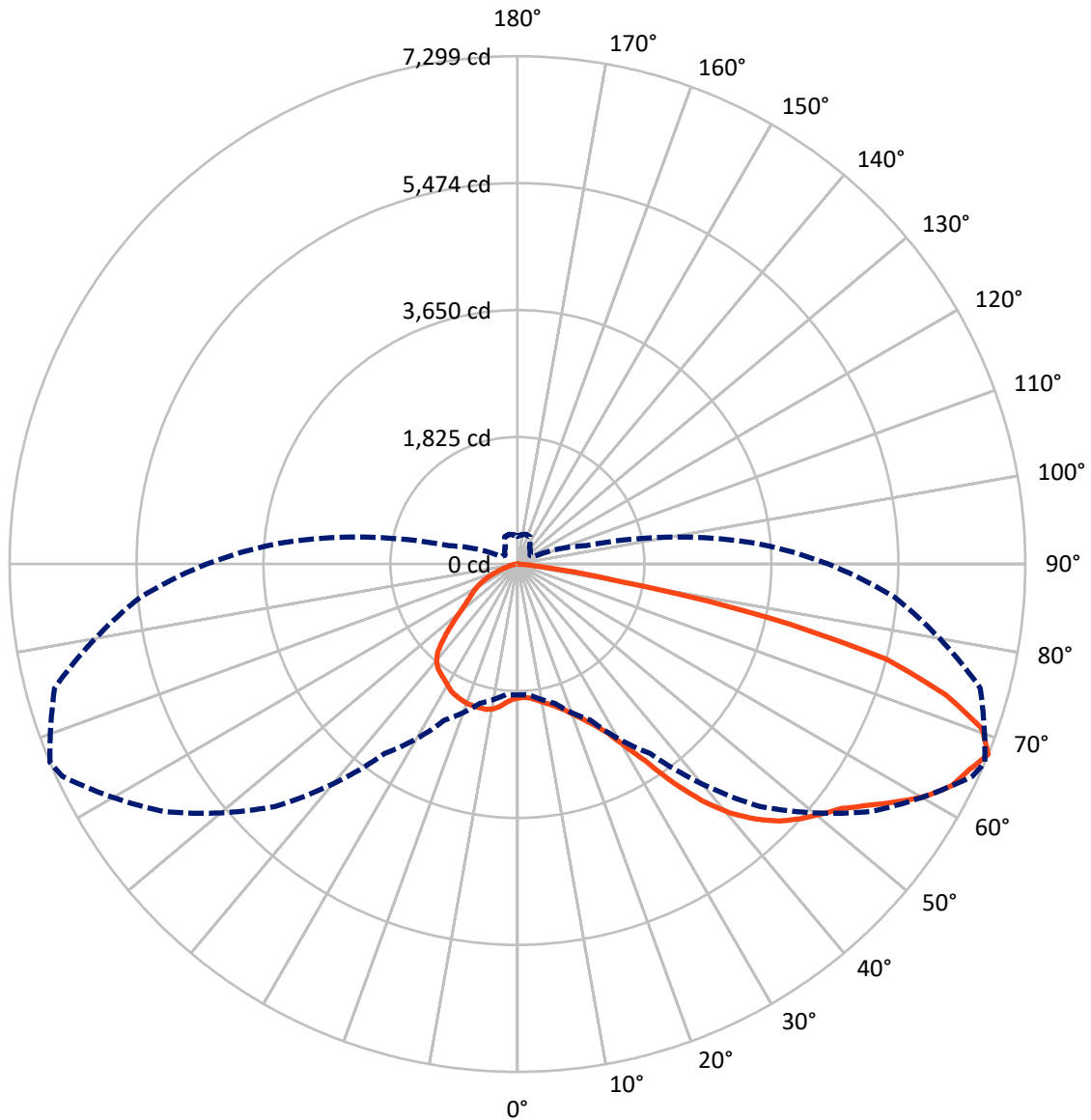
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.6 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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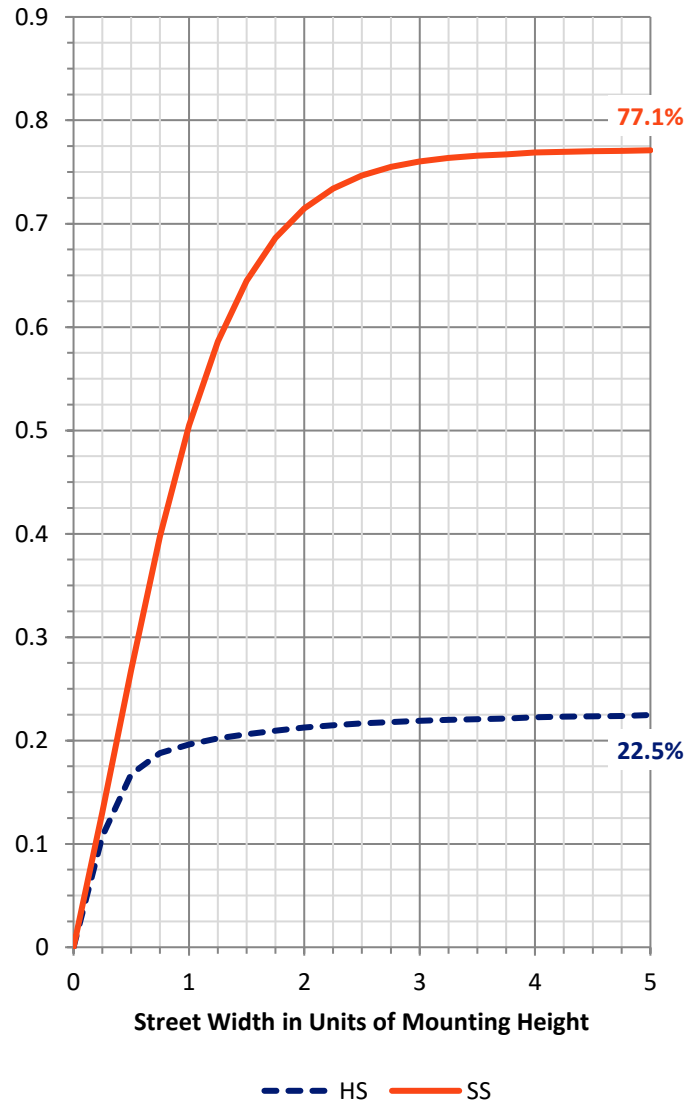
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2911.2	0.0	2911.2
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	9820.7	0.0	9820.7
	% Fixture	77.1	0.0	77.1
Total	Lumens	12732.0	0.0	12732.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	195.1	1.5
10°-20°	624.3	4.9
20°-30°	1078.7	8.5
30°-40°	1637.4	12.9
40°-50°	2224.9	17.5
50°-60°	2646.1	20.8
60°-70°	2722.5	21.4
70°-80°	1485.1	11.7
80°-90°	118.0	0.9
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°	12732.0	100.0
0°-180°	12732.0	100.0



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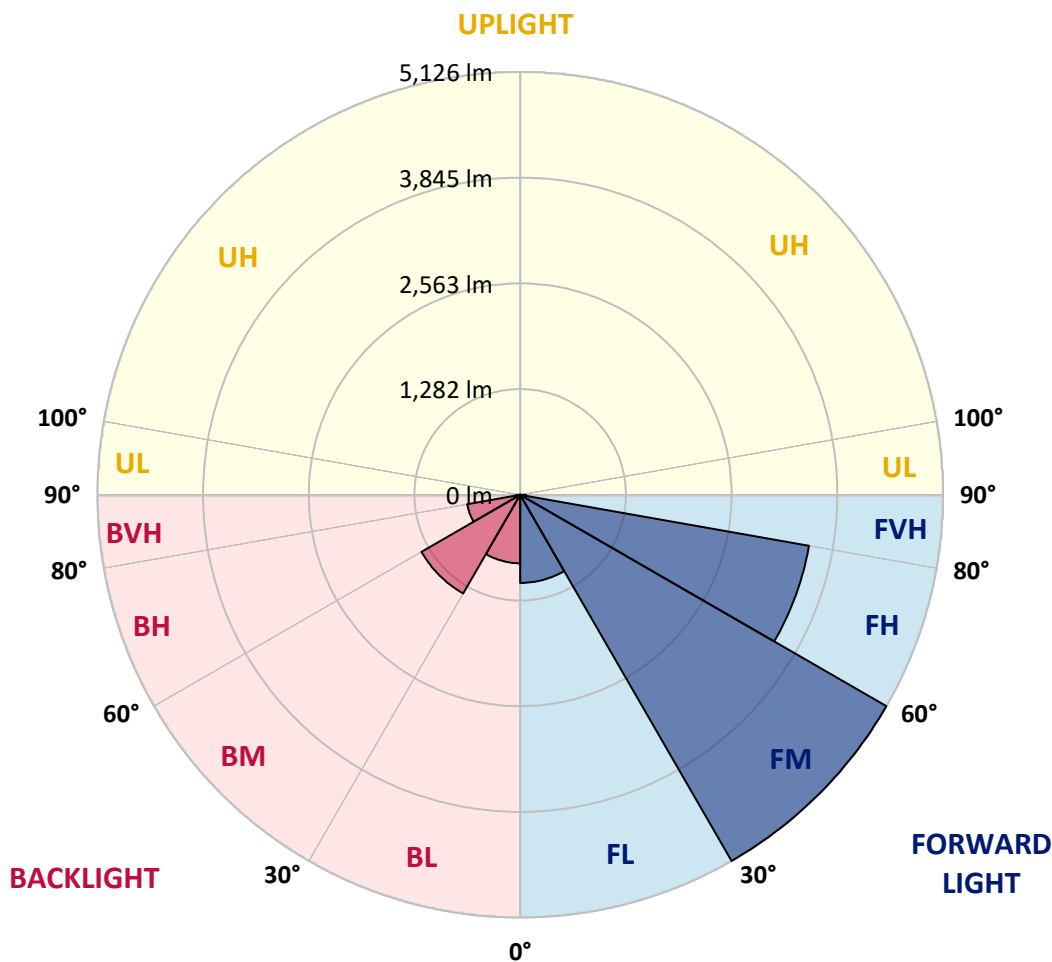
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1067.9	8.4			
FM (30°-60°)	5126.4	40.3			
FH (60°-80°)	3555.8	27.9			G2/5000
FVH (80°-90°)	70.6	0.6			G1/100
BL (0°-30°)	830.1	6.5	B2/1000		
BM (30°-60°)	1381.9	10.9	B2/2500		
BH (60°-80°)	651.8	5.1	B2/1000		G2/1000
BVH (80°-90°)	47.4	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°	1926.1	1926.1	1926.1	1926.1	1926.1	1926.1	1926.1	1926.1	1926.1	1926.1	1926.1
2.5°	1937.2	1928.9	1917.9	1922.0	1913.7	1927.5	1922.0	1919.2	1919.2	1920.6	1927.5
5°	1981.3	1973.0	1964.7	1963.4	1946.8	1952.3	1944.1	1935.8	1935.8	1934.4	1937.2
7.5°	2058.5	2047.5	2037.8	2036.4	2015.8	2013.0	1988.2	1971.6	1971.6	1970.3	1974.4
10°	2160.5	2156.4	2137.1	2124.7	2099.9	2083.3	2053.0	2026.8	2021.3	2013.0	2024.0
12.5°	2258.4	2257.0	2239.1	2225.3	2190.9	2161.9	2112.3	2076.4	2069.5	2059.9	2068.2
15°	2381.1	2368.7	2349.4	2341.2	2291.5	2247.4	2190.9	2137.1	2130.2	2119.2	2126.1
17.5°	2516.3	2509.4	2479.0	2469.4	2407.3	2356.3	2286.0	2217.1	2206.0	2190.9	2189.5
20°	2679.0	2666.5	2643.1	2615.5	2554.9	2481.8	2400.4	2321.8	2312.2	2299.8	2273.6
22.5°	2854.1	2840.3	2816.8	2787.9	2710.7	2633.5	2531.4	2432.2	2426.6	2418.4	2370.1
25°	3020.9	2997.4	3000.2	2972.6	2903.7	2805.8	2685.8	2567.3	2564.5	2563.1	2485.9
27.5°	3198.7	3173.9	3165.7	3156.0	3091.2	2998.8	2863.7	2750.6	2741.0	2742.4	2625.2
30°	3365.6	3354.5	3347.7	3340.8	3309.0	3226.3	3096.7	2996.1	3026.4	3023.6	2862.3
32.5°	3495.2	3486.9	3515.9	3549.0	3540.7	3471.7	3382.1	3336.6	3367.0	3464.9	3324.2
35°	3609.6	3605.5	3660.6	3731.0	3780.6	3731.0	3721.3	3791.6	3861.9	4024.6	3943.3
37.5°	3733.7	3728.2	3775.1	3895.0	3981.9	3997.1	4070.1	4250.8	4318.3	4481.0	4310.0
40°	3732.3	3739.2	3852.3	4005.3	4163.9	4292.1	4442.4	4617.5	4704.4	4781.6	4516.9
42.5°	3671.7	3675.8	3817.8	4108.7	4339.0	4591.3	4725.0	4949.8	5009.1	5024.2	4760.9
45°	3609.6	3612.4	3766.8	4093.6	4485.1	4871.2	5020.1	5225.5	5271.0	5218.6	4926.3
47.5°	3520.0	3537.9	3704.8	4078.4	4610.6	5129.0	5249.0	5453.0	5471.0	5404.8	5064.2
50°	3413.8	3423.5	3615.1	4028.8	4693.3	5289.0	5431.0	5615.7	5650.2	5575.7	5235.2
52.5°	3284.2	3292.5	3500.7	3962.6	4738.8	5411.7	5570.2	5790.8	5837.7	5804.6	5385.5
55°	3135.3	3139.5	3351.8	3855.0	4726.4	5465.4	5691.6	6039.0	6117.6	6036.3	5510.9
57.5°	2949.2	2964.4	3205.6	3693.7	4632.7	5533.0	5910.8	6345.1	6445.8	6272.0	5604.7
60°	2757.5	2772.7	2991.9	3506.2	4475.5	5563.3	6136.9	6674.6	6762.9	6495.4	5662.6
62.5°	2542.5	2563.1	2745.1	3223.6	4194.2	5523.4	6303.7	6962.8	7012.4	6629.1	5647.4
65°	2229.5	2240.5	2439.0	2883.0	3827.5	5315.2	6296.8	7117.2	7133.8	6776.7	5581.3
67.5°	1882.0	1883.4	2070.9	2472.1	3322.8	4926.3	6200.3	7217.9	7299.2	6885.6	5436.5
70°	1431.2	1450.5	1596.6	1894.4	2716.2	4261.8	5881.8	7118.6	7080.0	6587.8	5021.5
72.5°	1021.7	1010.6	1085.1	1286.4	1901.3	3288.4	5071.1	6432.0	6440.2	6000.4	4369.3
75°	543.2	546.0	609.4	779.0	970.7	2139.9	4056.3	5433.7	5483.4	5145.6	3419.4
77.5°	121.3	137.9	209.6	297.8	421.9	685.2	2200.5	3564.1	3657.9	3386.3	1873.7
80°	93.8	95.1	137.9	169.6	186.1	328.1	699.0	1293.3	1435.3	1355.3	704.6
82.5°	62.0	63.4	91.0	93.8	89.6	150.3	317.1	387.4	426.0	372.3	262.0
85°	33.1	34.5	41.4	45.5	35.8	44.1	41.4	33.1	34.5	30.3	30.3
87.5°	6.9	4.1	5.5	4.1	4.1	2.8	4.1	4.1	4.1	4.1	4.1
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°	1926.1	1926.1	1926.1	1926.1	1926.1	1926.1	1926.1	1926.1	1926.1	1926.1	1926.1
2.5°	1927.5	1930.3	1937.2	1948.2	1953.7	1966.1	1974.4	1995.1	2024.0	2014.4	2002.0
5°	1938.6	1946.8	1970.3	1999.2	2021.3	2054.4	2070.9	2110.9	2144.0	2141.2	2119.2
7.5°	1979.9	1997.8	2026.8	2069.5	2106.8	2139.9	2163.3	2206.0	2236.4	2224.0	2203.3
10°	2032.3	2050.2	2081.9	2120.5	2148.1	2184.0	2199.1	2233.6	2252.9	2237.7	2219.8
12.5°	2080.6	2090.2	2112.3	2141.2	2156.4	2179.8	2186.7	2211.5	2229.5	2222.6	2200.5
15°	2127.4	2126.1	2130.2	2138.5	2144.0	2149.5	2150.9	2168.8	2181.2	2167.4	2152.3
17.5°	2179.8	2166.0	2148.1	2134.3	2113.7	2104.0	2086.1	2094.4	2093.0	2081.9	2069.5
20°	2246.0	2221.2	2166.0	2123.3	2069.5	2026.8	1989.6	1982.7	1982.7	1952.3	1951.0
22.5°	2324.6	2283.2	2190.9	2097.1	2010.2	1942.7	1873.7	1833.8	1804.8	1782.8	1773.1
25°	2426.6	2350.8	2212.9	2061.3	1933.0	1810.3	1706.9	1651.8	1596.6	1560.8	1555.3
27.5°	2535.6	2452.8	2226.7	2029.6	1826.9	1658.7	1515.3	1402.2	1351.2	1327.8	1305.7
30°	2713.4	2567.3	2251.5	1962.0	1693.1	1472.5	1282.3	1149.9	1100.3	1083.7	1069.9
32.5°	3145.0	2863.7	2275.0	1893.1	1549.7	1267.1	1016.2	904.5	861.7	878.3	883.8
35°	3685.5	3304.9	2386.7	1813.1	1400.8	1034.1	781.8	707.3	710.1	734.9	743.2
37.5°	4052.2	3693.7	2614.1	1712.4	1187.1	766.6	605.3	581.8	602.5	624.6	628.7
40°	4267.3	3871.6	2774.1	1588.3	934.8	573.6	455.0	438.4	482.6	532.2	562.5
42.5°	4496.2	4023.3	2856.8	1427.0	656.3	415.0	348.8	361.2	431.6	474.3	493.6
45°	4618.9	4141.8	2819.6	1196.8	446.7	322.6	313.0	347.5	417.8	456.4	461.9
47.5°	4751.2	4260.4	2730.0	956.9	341.9	306.1	307.5	348.8	420.5	461.9	461.9
50°	4865.7	4358.3	2570.0	750.1	325.4	295.1	308.8	355.7	424.7	460.5	459.1
52.5°	4998.0	4402.4	2342.5	606.7	308.8	285.4	310.2	361.2	417.8	438.4	435.7
55°	5039.4	4370.7	2233.6	507.4	296.4	279.9	315.7	369.5	415.0	419.1	412.3
57.5°	5039.4	4285.2	2109.5	432.9	285.4	279.9	318.5	368.1	430.2	456.4	453.6
60°	5017.3	4195.6	1919.2	387.4	270.2	277.1	319.9	388.8	511.5	540.5	539.1
62.5°	4947.0	4050.8	1684.9	341.9	255.1	278.5	315.7	417.8	584.6	572.2	541.9
65°	4780.2	3777.8	1366.4	300.6	238.5	278.5	310.2	459.1	519.8	496.4	485.3
67.5°	4465.8	3434.5	1016.2	257.8	219.2	260.6	302.0	430.2	441.2	415.0	398.5
70°	4050.8	2909.2	652.2	217.8	198.5	245.4	296.4	404.0	426.0	394.3	373.6
72.5°	3375.2	2310.8	377.8	177.9	168.2	226.1	285.4	391.6	419.1	376.4	347.5
75°	2381.1	1458.7	248.2	131.0	135.1	193.0	264.7	366.8	392.9	340.6	299.2
77.5°	1213.3	547.4	176.5	96.5	91.0	147.5	228.9	337.8	387.4	343.3	293.7
80°	428.8	275.8	115.8	63.4	59.3	91.0	175.1	286.8	364.0	335.0	325.4
82.5°	183.4	137.9	63.4	40.0	35.8	45.5	99.3	226.1	319.9	303.3	366.8
85°	26.2	23.4	17.9	15.2	15.2	20.7	31.7	111.7	216.5	246.8	299.2
87.5°	4.1	4.1	4.1	2.8	2.8	2.8	1.4	16.5	71.7	107.5	148.9
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)