

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: P509150

Luminaire Tested: **VERD-CA2-120-722-U-T3-HSS**

Issue Date: 3/4/2021

Test Information

Test Method: LM-79-08
Report Number: P509150
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2102-139-5)
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-T3-HSS
Description: VERDEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2200K, 1120mA LEDS AND TYPE III OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13091 lumens
Efficiency: N/A
Efficacy: 106.7 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

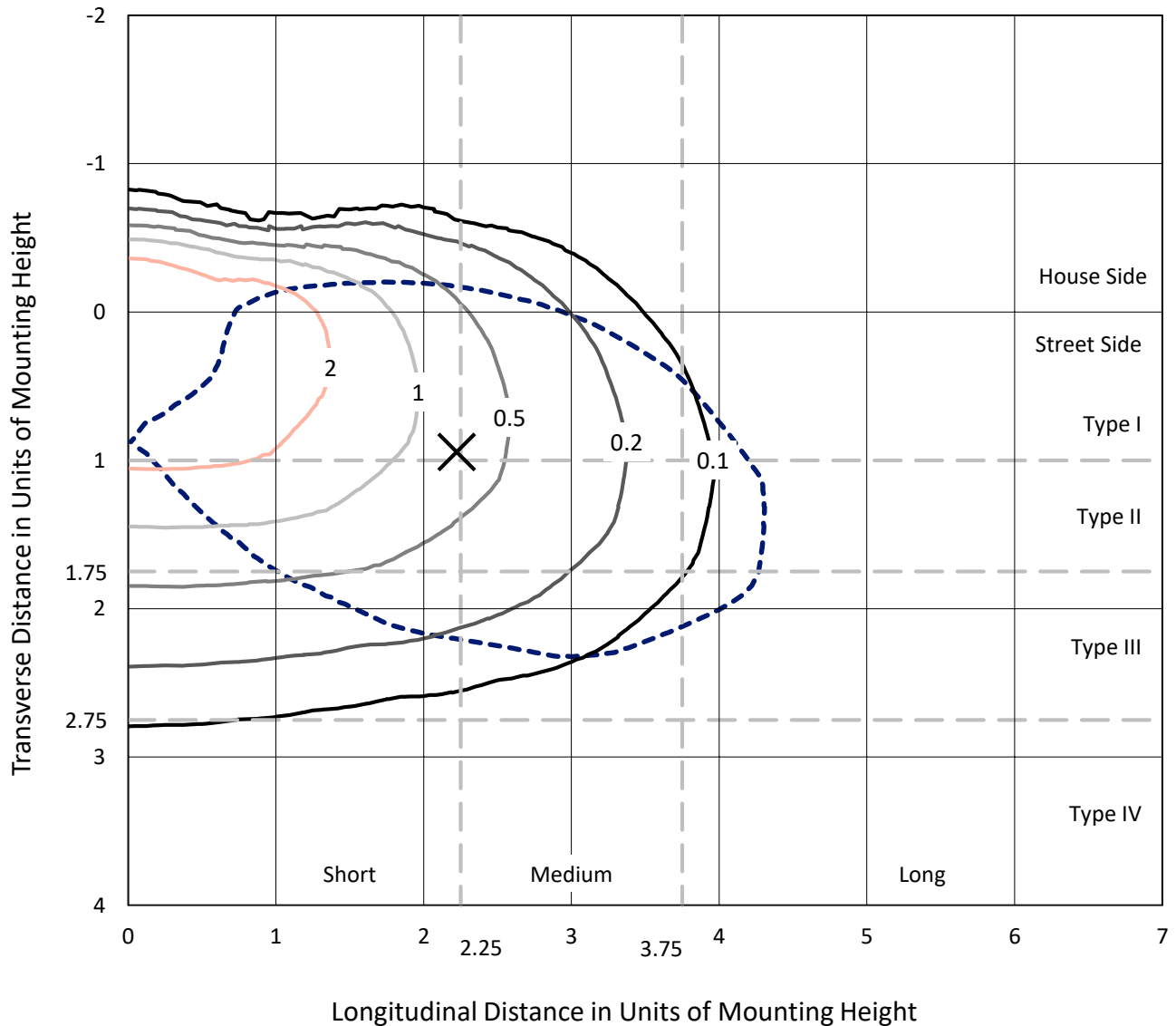
Input Watts (W): 122.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

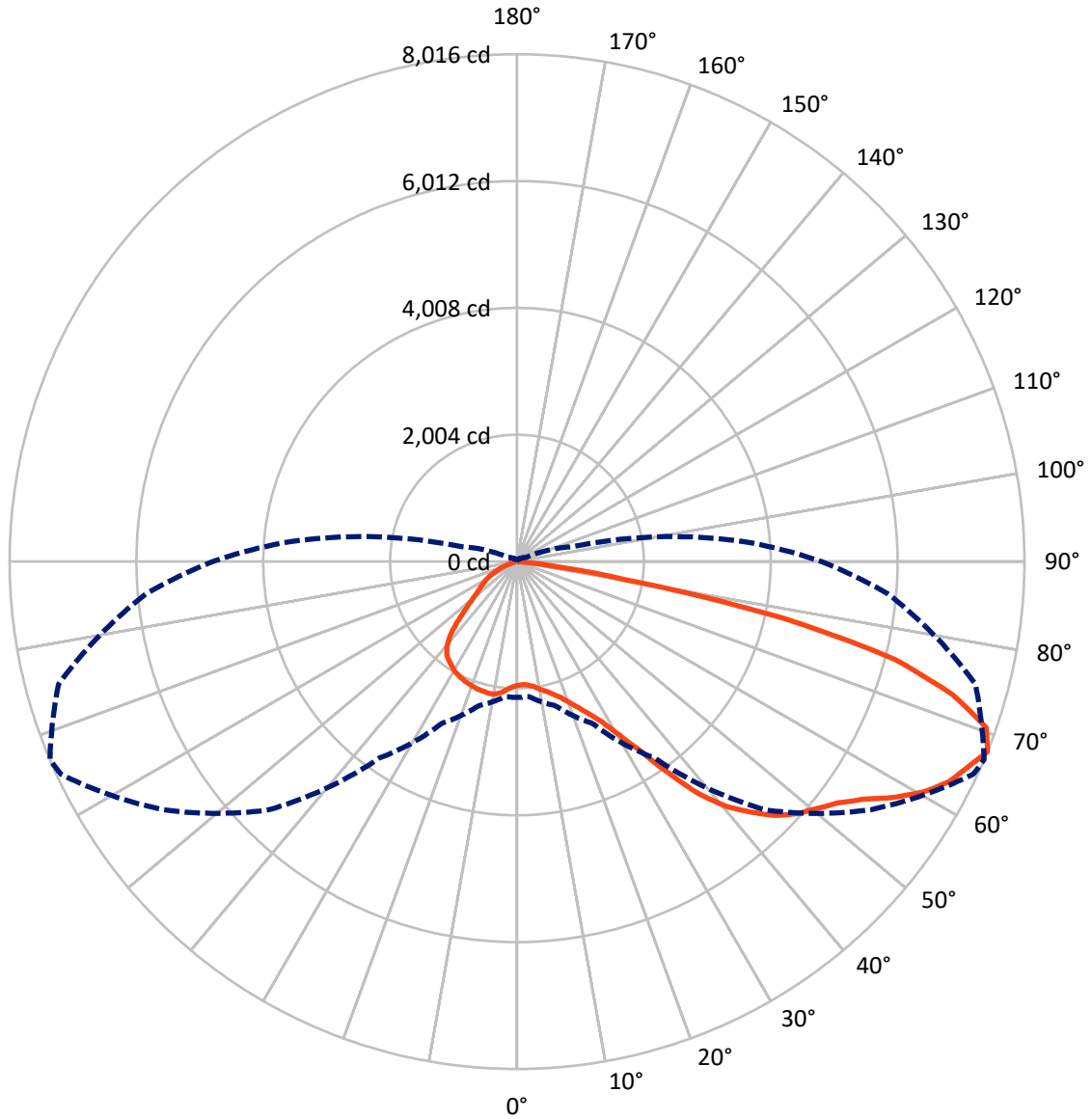
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.8 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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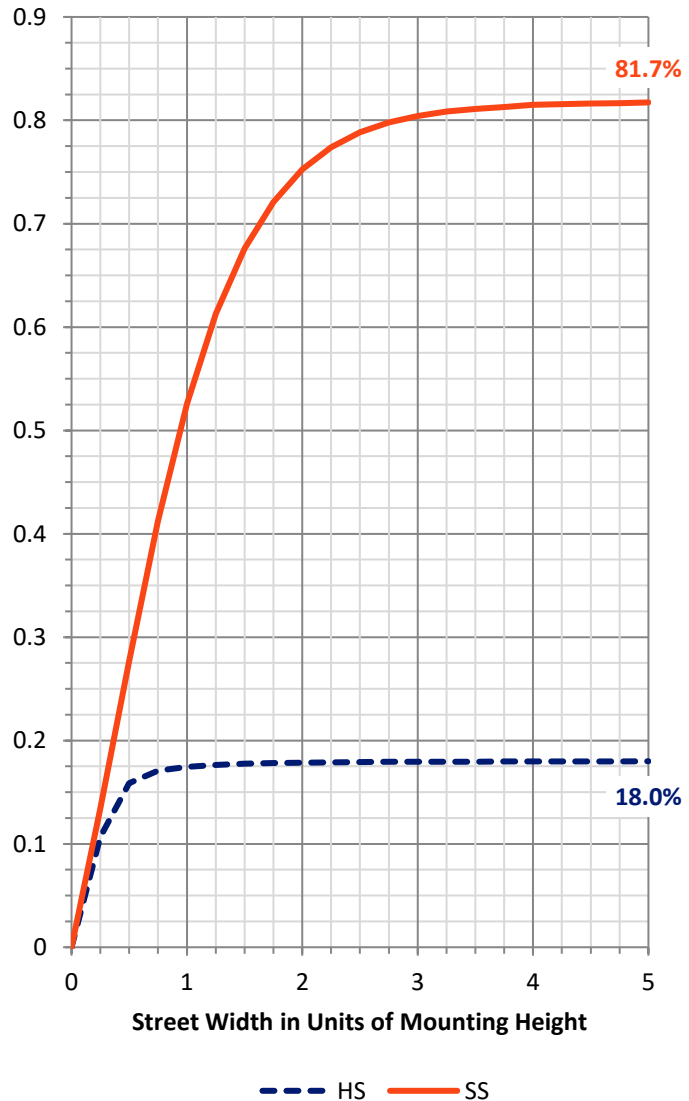
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2385.3	0.0	2385.3
	% Fixture	18.2	0.0	18.2
Street Side	Lumens	10705.7	0.0	10705.7
	% Fixture	81.8	0.0	81.8
Total	Lumens	13091.0	0.0	13091.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	195.8	1.5
10°-20°	613.3	4.7
20°-30°	1046.6	8.0
30°-40°	1629.0	12.4
40°-50°	2299.6	17.6
50°-60°	2769.6	21.2
60°-70°	2862.2	21.9
70°-80°	1576.7	12.0
80°-90°	98.3	0.8
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°	13091.0	100.0
0°-180°	13091.0	100.0

Coefficient of Utilization



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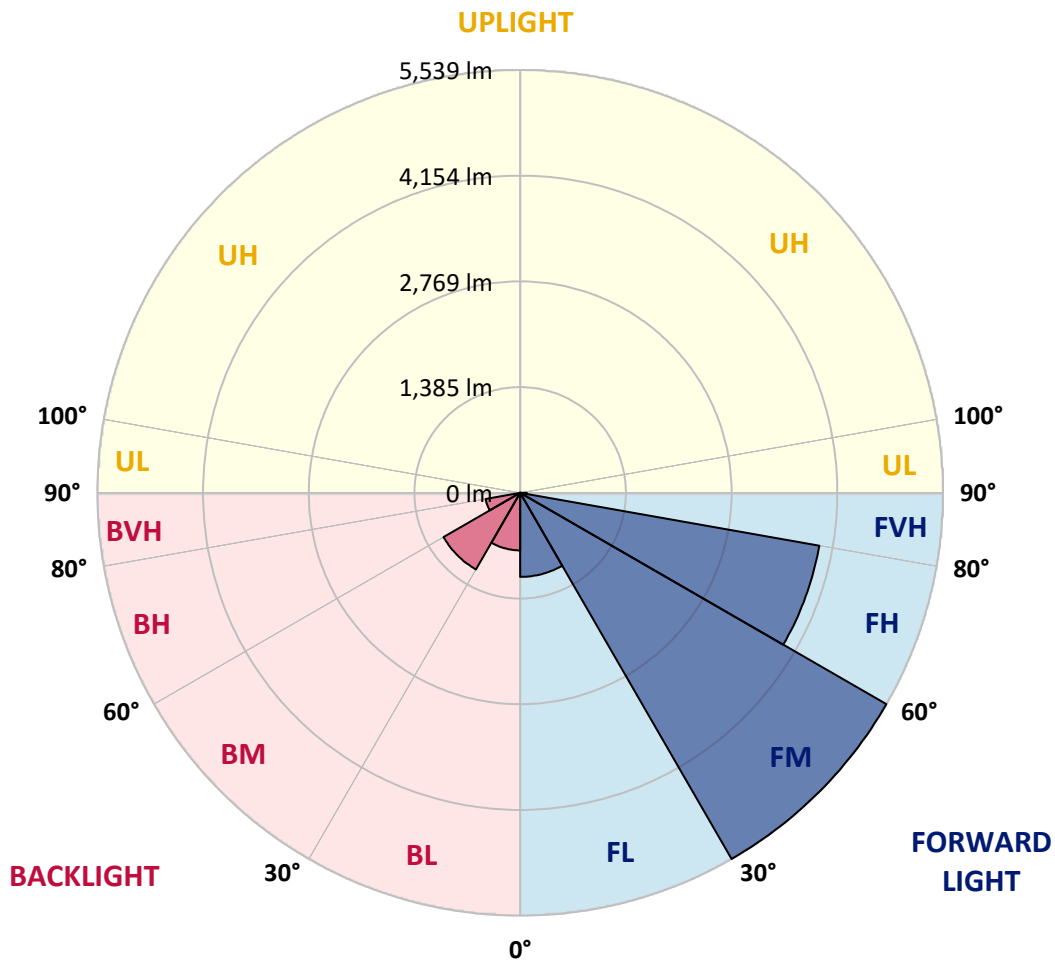
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1101.5	8.4			
FM (30°-60°)	5538.6	42.3			
FH (60°-80°)	3979.2	30.4			G2/5000
FVH (80°-90°)	86.4	0.7			G1/100
BL (0°-30°)	754.2	5.8	B2/1000		
BM (30°-60°)	1159.5	8.9	B2/2500		
BH (60°-80°)	459.7	3.5	B1/500		G1/500
BVH (80°-90°)	11.8	0.1			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°	1954.6	1954.6	1954.6	1954.6	1954.6	1954.6	1954.6	1954.6	1954.6	1954.6	1954.6
2.5°	1936.5	1956.2	1956.2	1950.1	1953.1	1939.5	1930.4	1941.0	1944.0	1953.1	1965.2
5°	1974.3	1997.1	1995.5	1984.9	1975.8	1963.7	1951.6	1960.7	1962.2	1965.2	1980.4
7.5°	2054.6	2075.9	2066.8	2056.2	2051.6	2024.3	1998.6	1997.1	2000.1	2009.2	2025.9
10°	2159.2	2175.9	2172.8	2156.2	2144.0	2103.1	2066.8	2053.1	2054.6	2057.7	2086.5
12.5°	2277.4	2300.1	2283.4	2260.7	2239.5	2180.4	2130.4	2110.7	2107.7	2115.2	2139.5
15°	2394.0	2418.3	2406.2	2392.5	2344.0	2278.9	2215.3	2183.4	2180.4	2180.4	2195.6
17.5°	2547.1	2556.2	2548.6	2528.9	2474.4	2392.5	2316.8	2269.8	2262.2	2266.8	2269.8
20°	2716.8	2733.5	2724.4	2703.2	2624.4	2536.5	2441.0	2385.0	2380.4	2385.0	2356.2
22.5°	2922.9	2928.9	2924.4	2889.5	2818.3	2701.6	2575.9	2512.2	2512.2	2516.8	2457.7
25°	3098.6	3135.0	3124.4	3082.0	2998.6	2897.1	2745.6	2666.8	2671.3	2674.4	2592.5
27.5°	3303.2	3333.5	3325.9	3294.1	3239.5	3110.7	2928.9	2877.4	2872.9	2868.3	2741.0
30°	3498.6	3521.4	3536.5	3528.9	3485.0	3363.8	3201.7	3163.8	3175.9	3166.8	2947.1
32.5°	3657.7	3697.1	3739.6	3748.7	3736.5	3629.0	3510.8	3530.5	3545.6	3653.2	3521.4
35°	3794.1	3836.5	3906.2	3979.0	3992.6	3950.2	3891.1	4035.0	4079.0	4298.7	4159.3
37.5°	3936.5	3972.9	4042.6	4157.8	4233.5	4256.3	4313.8	4541.1	4647.2	4836.6	4577.5
40°	4001.7	4038.1	4159.3	4304.7	4462.3	4589.6	4704.8	4968.4	5086.6	5144.2	4807.8
42.5°	3936.5	3971.4	4166.9	4441.1	4654.8	4936.6	5066.9	5330.5	5409.3	5403.3	5091.1
45°	3872.9	3906.2	4110.8	4476.0	4829.0	5256.3	5366.9	5662.4	5720.0	5647.2	5254.8
47.5°	3791.1	3836.5	4048.7	4454.7	4985.1	5545.7	5647.2	5898.8	5950.3	5842.7	5442.7
50°	3691.1	3730.5	3977.5	4421.4	5088.1	5762.4	5870.0	6120.0	6133.6	6033.6	5612.4
52.5°	3575.9	3597.1	3865.3	4354.7	5177.5	5921.5	6044.2	6306.3	6338.2	6310.9	5813.9
55°	3404.7	3442.6	3730.5	4250.2	5183.6	6004.8	6179.1	6570.0	6627.6	6563.9	5936.6
57.5°	3224.4	3265.3	3563.8	4104.7	5094.2	6057.9	6424.5	6912.4	7026.1	6821.5	6036.6
60°	3025.9	3062.3	3356.2	3889.6	4935.1	6133.6	6677.6	7314.0	7385.2	7041.2	6103.3
62.5°	2795.6	2824.4	3104.7	3629.0	4691.1	6113.9	6895.8	7636.7	7659.4	7238.2	6097.2
65°	2515.3	2513.8	2774.4	3265.3	4291.1	5956.3	6935.2	7798.8	7826.1	7365.5	6042.7
67.5°	2145.6	2141.0	2359.2	2821.3	3786.5	5545.7	6830.6	7950.4	8015.5	7498.8	5883.6
70°	1681.9	1688.0	1853.1	2265.3	3072.9	4919.9	6554.8	7848.8	7862.5	7242.8	5471.5
72.5°	1189.4	1186.4	1298.5	1577.3	2271.3	3841.1	5760.9	7156.4	7198.8	6609.4	4766.9
75°	545.5	568.2	848.5	963.7	1371.3	2615.3	4739.6	6080.6	6162.4	5689.7	3716.8
77.5°	101.5	104.6	181.8	366.7	536.4	944.0	2831.9	4118.4	4289.6	3877.5	2094.0
80°	80.3	81.8	107.6	175.8	224.3	424.3	931.9	1697.0	1734.9	1512.2	754.6
82.5°	59.1	60.6	80.3	113.6	104.6	183.3	387.9	494.0	524.3	487.9	300.0
85°	34.9	36.4	47.0	56.1	54.5	72.7	65.2	59.1	53.0	43.9	37.9
87.5°	9.1	12.1	19.7	19.7	15.2	13.6	12.1	10.6	12.1	10.6	10.6
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°	1954.6	1954.6	1954.6	1954.6	1954.6	1954.6	1954.6	1954.6	1954.6	1954.6	1954.6
2.5°	1968.3	1966.8	1971.3	1983.4	1994.0	1995.5	2010.7	2030.4	2021.3	2047.1	2038.0
5°	1989.5	1994.0	2010.7	2030.4	2048.6	2063.7	2086.5	2119.8	2109.2	2133.4	2124.3
7.5°	2038.0	2045.5	2071.3	2091.0	2112.2	2107.7	2127.4	2147.1	2122.8	2148.6	2136.5
10°	2095.6	2104.6	2119.8	2127.4	2121.3	2118.3	2113.7	2110.7	2078.9	2097.1	2089.5
12.5°	2147.1	2148.6	2144.0	2124.3	2110.7	2074.3	2057.7	2050.1	2001.6	2015.2	2006.2
15°	2197.1	2175.9	2153.1	2107.7	2069.8	2013.7	1977.4	1945.5	1900.1	1918.3	1900.1
17.5°	2251.6	2219.8	2160.7	2094.0	2016.8	1934.9	1875.8	1824.3	1756.1	1753.1	1747.0
20°	2321.3	2274.3	2178.9	2069.8	1959.2	1836.4	1742.5	1656.1	1553.1	1539.5	1512.2
22.5°	2409.2	2339.5	2206.2	2038.0	1888.0	1733.4	1574.3	1431.9	1301.6	1260.7	1245.5
25°	2510.7	2424.4	2221.3	2009.2	1819.8	1583.4	1366.7	1181.9	1028.8	984.9	972.8
27.5°	2638.0	2531.9	2244.0	1966.8	1710.7	1400.1	1118.2	913.7	777.3	706.1	695.5
30°	2813.8	2651.6	2275.9	1924.3	1578.9	1184.9	866.7	628.8	500.0	457.6	450.0
32.5°	3292.6	2936.5	2310.7	1848.6	1404.6	945.5	575.8	401.5	315.2	280.3	277.3
35°	3900.2	3457.7	2438.0	1762.2	1194.0	656.1	357.6	239.4	192.4	178.8	178.8
37.5°	4292.6	3862.3	2650.1	1641.0	916.7	401.5	215.2	156.1	147.0	145.5	145.5
40°	4498.7	4041.1	2803.2	1474.3	613.7	233.3	151.5	134.9	131.8	128.8	128.8
42.5°	4760.8	4194.1	2935.0	1248.5	356.1	163.6	133.3	122.7	118.2	115.2	115.2
45°	4906.3	4360.8	2851.6	980.3	203.0	147.0	122.7	110.6	106.1	106.1	106.1
47.5°	5048.7	4519.9	2745.6	704.6	172.7	134.9	115.2	103.0	98.5	101.5	101.5
50°	5210.8	4627.5	2577.4	527.3	163.6	125.8	104.6	93.9	90.9	95.5	95.5
52.5°	5362.4	4638.1	2307.7	421.2	151.5	116.7	97.0	86.4	83.3	86.4	86.4
55°	5406.3	4604.8	2230.4	334.9	143.9	107.6	90.9	80.3	72.7	72.7	71.2
57.5°	5395.7	4539.6	2042.5	283.3	134.9	98.5	83.3	71.2	62.1	59.1	59.1
60°	5359.3	4448.7	1844.0	247.0	125.8	90.9	74.2	60.6	51.5	48.5	48.5
62.5°	5313.9	4277.5	1563.7	215.2	116.7	87.9	62.1	50.0	43.9	40.9	40.9
65°	5123.0	4010.8	1251.6	183.3	107.6	77.3	54.5	43.9	37.9	34.9	34.9
67.5°	4806.3	3604.7	904.6	156.1	100.0	65.2	48.5	37.9	31.8	30.3	28.8
70°	4333.5	3044.1	560.6	134.9	86.4	59.1	42.4	33.3	28.8	24.2	24.2
72.5°	3612.3	2383.4	294.0	106.1	68.2	50.0	37.9	30.3	24.2	21.2	19.7
75°	2539.5	1469.8	212.1	81.8	47.0	40.9	31.8	25.8	21.2	18.2	16.7
77.5°	1225.8	506.1	148.5	60.6	33.3	30.3	24.2	21.2	16.7	15.2	15.2
80°	448.5	287.9	106.1	43.9	27.3	24.2	18.2	16.7	13.6	12.1	12.1
82.5°	201.5	136.4	60.6	28.8	19.7	18.2	13.6	10.6	10.6	10.6	10.6
85°	33.3	28.8	19.7	13.6	10.6	9.1	9.1	7.6	7.6	7.6	7.6
87.5°	9.1	9.1	7.6	7.6	6.1	4.5	3.0	3.0	3.0	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

(END OF REPORT)