

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: P509086

Luminaire Tested: **VERD-CA2-100-750-U-T3-HSS**

Issue Date: 3/4/2021

Test Information

Test Method: LM-79-08
Report Number: P509086
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-CA2-100-750-U-T3-HSS
Description: VERDEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 5000K, 1370mA LEDS AND TYPE III OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13299 lumens
Efficiency: N/A
Efficacy: 128.6 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

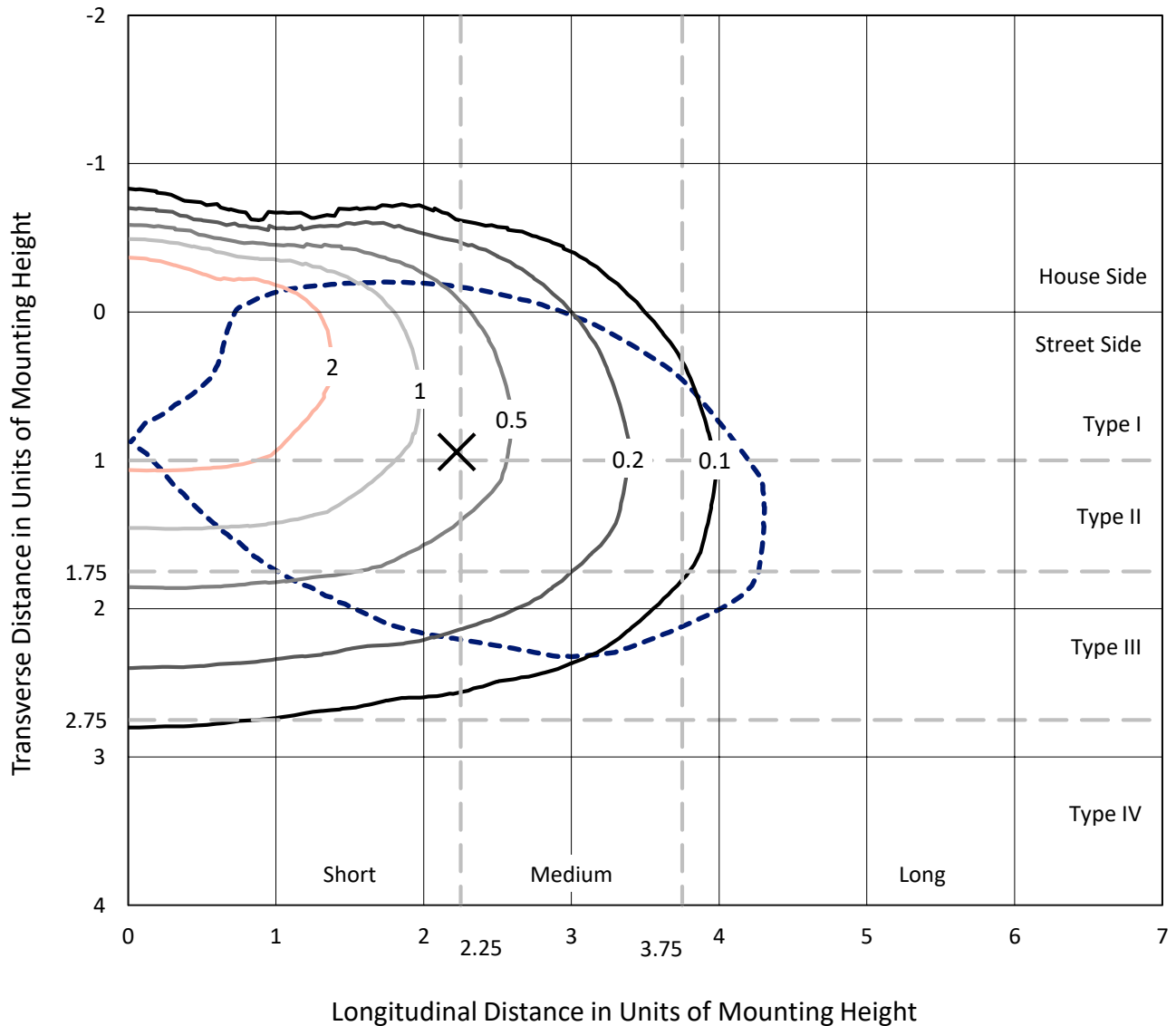
Input Watts (W): 103.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

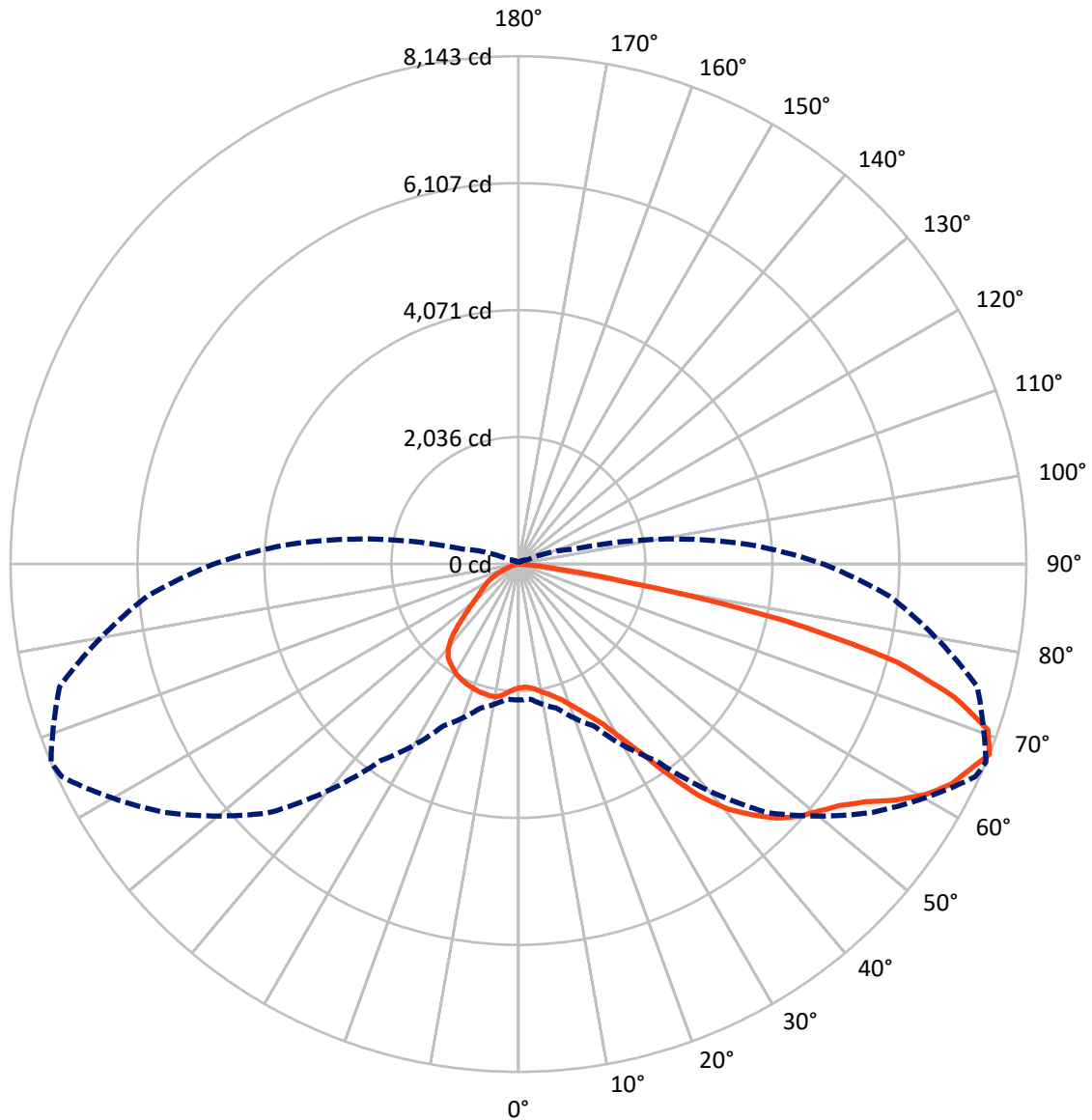
× Max cd
 - - - 1/2 Max cd



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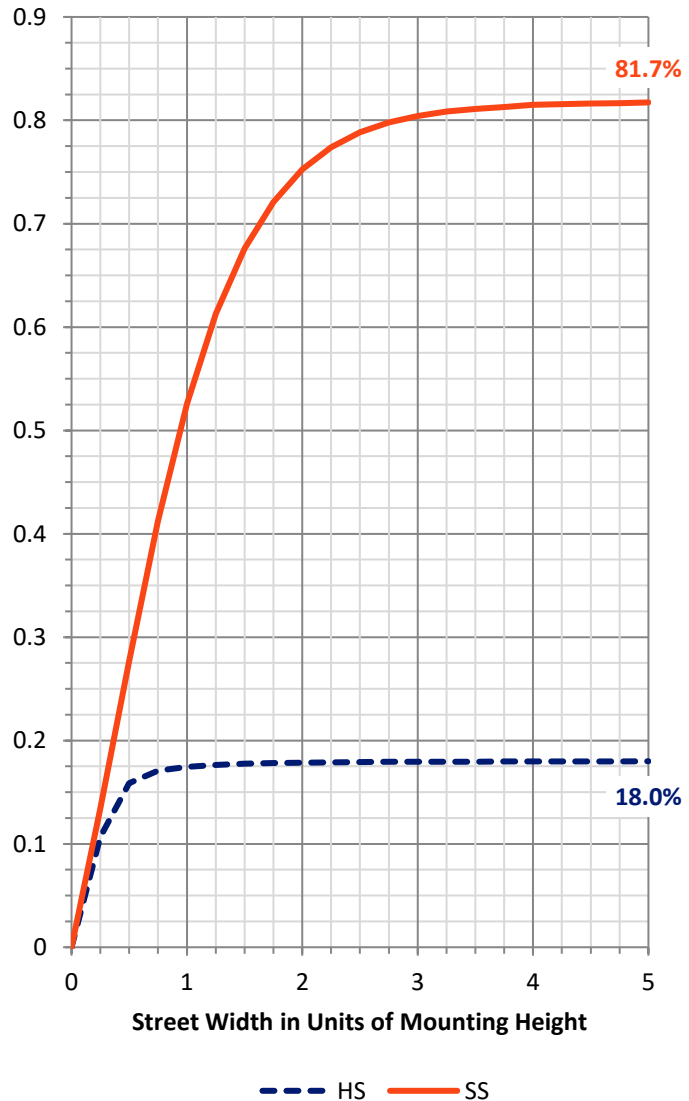
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2423.2	0.0	2423.2
	% Fixture	18.2	0.0	18.2
Street Side	Lumens	10875.8	0.0	10875.8
	% Fixture	81.8	0.0	81.8
Total	Lumens	13299.0	0.0	13299.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	198.9	1.5
10°-20°	623.1	4.7
20°-30°	1063.2	8.0
30°-40°	1654.9	12.4
40°-50°	2336.1	17.6
50°-60°	2813.6	21.2
60°-70°	2907.7	21.9
70°-80°	1601.8	12.0
80°-90°	99.8	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°	13299.0	100.0
0°-180°	13299.0	100.0



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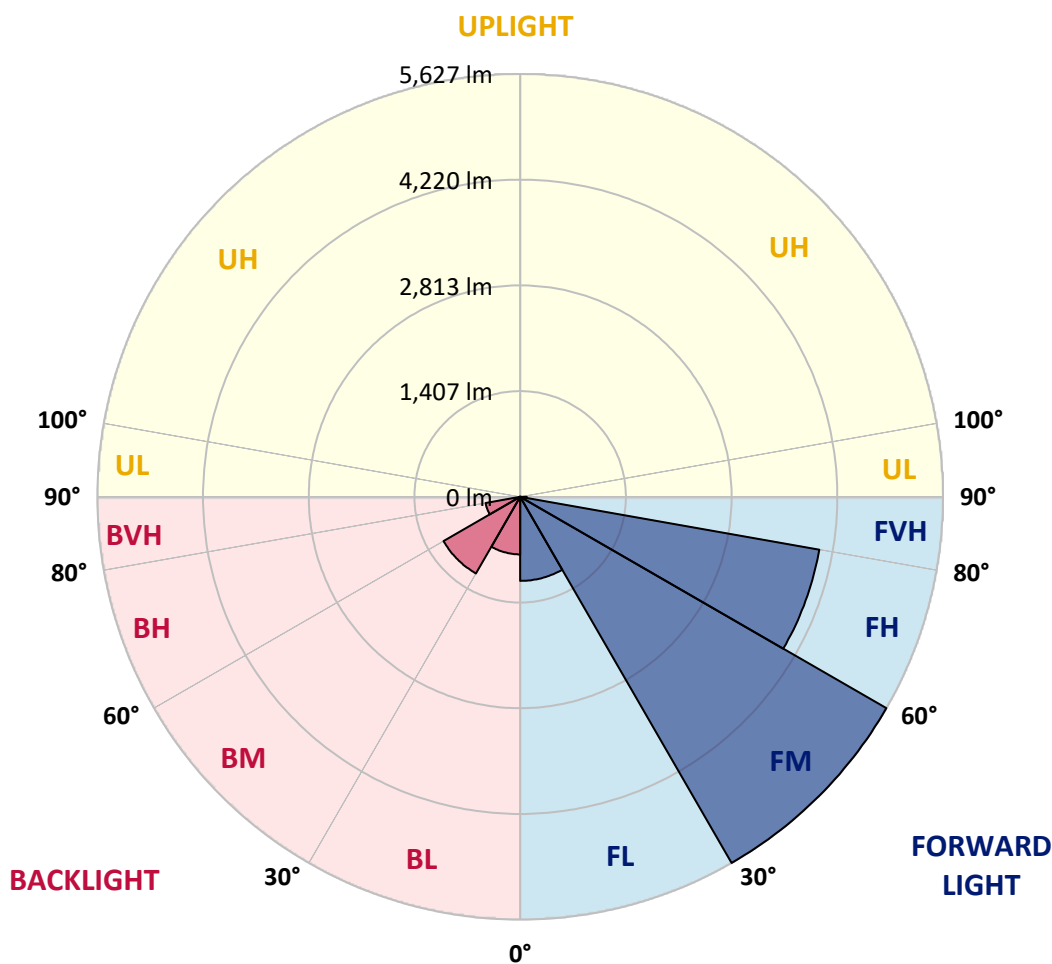
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1119.0	8.4			
FM (30°-60°)	5626.6	42.3			
FH (60°-80°)	4042.4	30.4			G2/5000
FVH (80°-90°)	87.8	0.7			G1/100
BL (0°-30°)	766.2	5.8	B2/1000		
BM (30°-60°)	1177.9	8.9	B2/2500		
BH (60°-80°)	467.1	3.5	B1/500		G1/500
BVH (80°-90°)	12.0	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°	1985.7	1985.7	1985.7	1985.7	1985.7	1985.7	1985.7	1985.7	1985.7	1985.7	1985.7
2.5°	1967.2	1987.2	1987.2	1981.1	1984.2	1970.3	1961.1	1971.8	1974.9	1984.2	1996.5
5°	2005.7	2028.8	2027.3	2016.5	2007.2	1994.9	1982.6	1991.8	1993.4	1996.5	2011.9
7.5°	2087.3	2108.8	2099.6	2088.8	2084.2	2056.5	2030.3	2028.8	2031.9	2041.1	2058.0
10°	2193.5	2210.4	2207.4	2190.4	2178.1	2136.5	2099.6	2085.7	2087.3	2090.4	2119.6
12.5°	2313.6	2336.7	2319.7	2296.6	2275.1	2215.0	2164.3	2144.2	2141.2	2148.9	2173.5
15°	2432.1	2456.7	2444.4	2430.5	2381.3	2315.1	2250.5	2218.1	2215.0	2215.0	2230.4
17.5°	2587.6	2596.8	2589.1	2569.1	2513.7	2430.5	2353.6	2305.9	2298.2	2302.8	2305.9
20°	2760.0	2776.9	2767.7	2746.1	2666.1	2576.8	2479.8	2422.9	2418.2	2422.9	2393.6
22.5°	2969.3	2975.5	2970.8	2935.4	2863.1	2744.6	2616.8	2552.2	2552.2	2556.8	2496.7
25°	3147.9	3184.8	3174.0	3130.9	3046.3	2943.1	2789.2	2709.2	2713.8	2716.9	2633.7
27.5°	3355.7	3386.5	3378.8	3346.4	3291.0	3160.2	2975.5	2923.1	2918.5	2913.9	2784.6
30°	3554.2	3577.3	3592.7	3585.0	3540.4	3417.2	3252.5	3214.1	3226.4	3217.1	2993.9
32.5°	3715.9	3755.9	3799.0	3808.2	3795.9	3686.6	3566.5	3586.6	3602.0	3711.2	3577.3
35°	3854.4	3897.5	3968.3	4042.2	4056.0	4012.9	3952.9	4099.1	4143.8	4367.0	4225.4
37.5°	3999.1	4036.0	4106.8	4223.8	4300.8	4323.9	4382.4	4613.3	4721.0	4913.4	4650.2
40°	4065.3	4102.2	4225.4	4373.1	4533.2	4662.5	4779.5	5047.4	5167.4	5225.9	4884.2
42.5°	3999.1	4034.5	4233.1	4511.7	4728.7	5015.0	5147.4	5415.2	5495.3	5489.1	5172.0
45°	3934.4	3968.3	4176.1	4547.1	4905.7	5339.8	5452.2	5752.3	5810.8	5737.0	5338.3
47.5°	3851.3	3897.5	4113.0	4525.5	5064.3	5633.8	5737.0	5992.5	6044.8	5935.5	5529.2
50°	3749.7	3789.7	4040.7	4491.7	5169.0	5853.9	5963.2	6217.2	6231.1	6129.5	5701.6
52.5°	3632.7	3654.3	3926.7	4423.9	5259.8	6015.6	6140.3	6406.5	6438.9	6411.2	5906.3
55°	3458.8	3497.3	3789.7	4317.7	5265.9	6100.2	6277.2	6674.4	6732.9	6668.2	6031.0
57.5°	3275.6	3317.2	3620.4	4170.0	5175.1	6154.1	6526.6	7022.3	7137.7	6929.9	6132.6
60°	3074.0	3110.9	3409.5	3951.4	5013.5	6231.1	6783.7	7430.2	7502.5	7153.1	6200.3
62.5°	2840.0	2869.2	3154.0	3686.6	4765.7	6211.1	7005.3	7758.1	7781.1	7353.2	6194.1
65°	2555.2	2553.7	2818.5	3317.2	4359.3	6051.0	7045.4	7922.8	7950.5	7482.5	6138.7
67.5°	2179.6	2175.0	2396.7	2866.2	3846.7	5633.8	6939.1	8076.7	8142.9	7618.0	5977.1
70°	1708.6	1714.8	1882.6	2301.2	3121.7	4998.1	6659.0	7973.6	7987.4	7357.8	5558.4
72.5°	1208.3	1205.3	1319.2	1602.4	2307.4	3902.1	5852.4	7270.1	7313.2	6714.4	4842.6
75°	554.1	577.2	862.0	979.0	1393.1	2656.8	4814.9	6177.2	6260.3	5780.1	3775.9
77.5°	103.1	106.2	184.7	372.5	544.9	959.0	2876.9	4183.8	4357.7	3939.1	2127.3
80°	81.6	83.1	109.3	178.6	227.8	431.0	946.7	1724.0	1762.5	1536.2	766.6
82.5°	60.0	61.6	81.6	115.4	106.2	186.3	394.1	501.8	532.6	495.7	304.8
85°	35.4	36.9	47.7	57.0	55.4	73.9	66.2	60.0	53.9	44.6	38.5
87.5°	9.2	12.3	20.0	20.0	15.4	13.9	12.3	10.8	12.3	10.8	10.8
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°	1985.7	1985.7	1985.7	1985.7	1985.7	1985.7	1985.7	1985.7	1985.7	1985.7	1985.7
2.5°	1999.5	1998.0	2002.6	2014.9	2025.7	2027.3	2042.6	2062.7	2053.4	2079.6	2070.4
5°	2021.1	2025.7	2042.6	2062.7	2081.1	2096.5	2119.6	2153.5	2142.7	2167.3	2158.1
7.5°	2070.4	2078.0	2104.2	2124.2	2145.8	2141.2	2161.2	2181.2	2156.6	2182.7	2170.4
10°	2128.8	2138.1	2153.5	2161.2	2155.0	2151.9	2147.3	2144.2	2111.9	2130.4	2122.7
12.5°	2181.2	2182.7	2178.1	2158.1	2144.2	2107.3	2090.4	2082.7	2033.4	2047.3	2038.0
15°	2232.0	2210.4	2187.3	2141.2	2102.7	2045.7	2008.8	1976.5	1930.3	1948.7	1930.3
17.5°	2287.4	2255.1	2195.0	2127.3	2048.8	1965.7	1905.6	1853.3	1784.0	1781.0	1774.8
20°	2358.2	2310.5	2213.5	2102.7	1990.3	1865.6	1770.2	1682.5	1577.8	1563.9	1536.2
22.5°	2447.5	2376.7	2241.2	2070.4	1918.0	1761.0	1599.3	1454.6	1322.3	1280.7	1265.3
25°	2550.6	2462.9	2256.6	2041.1	1848.7	1608.6	1388.4	1200.7	1045.2	1000.5	988.2
27.5°	2679.9	2572.2	2279.7	1998.0	1737.9	1422.3	1136.0	928.2	789.7	717.3	706.5
30°	2858.5	2693.8	2312.0	1954.9	1603.9	1203.7	880.5	638.8	508.0	464.9	457.2
32.5°	3344.9	2983.2	2347.4	1877.9	1426.9	960.5	584.9	407.9	320.2	284.8	281.7
35°	3962.1	3512.7	2476.7	1790.2	1213.0	666.5	363.3	243.2	195.5	181.6	181.6
37.5°	4360.8	3923.7	2692.2	1667.1	931.3	407.9	218.6	158.5	149.3	147.8	147.8
40°	4570.2	4105.3	2847.7	1497.7	623.4	237.1	153.9	137.0	133.9	130.8	130.8
42.5°	4836.5	4260.8	2981.6	1268.4	361.7	166.2	135.5	124.7	120.1	117.0	117.0
45°	4984.2	4430.1	2897.0	995.9	206.3	149.3	124.7	112.4	107.8	107.8	107.8
47.5°	5128.9	4591.7	2789.2	715.8	175.5	137.0	117.0	104.7	100.1	103.1	103.1
50°	5293.6	4701.0	2618.3	535.7	166.2	127.8	106.2	95.4	92.4	97.0	97.0
52.5°	5447.6	4711.8	2344.3	427.9	153.9	118.5	98.5	87.7	84.7	87.7	87.7
55°	5492.2	4677.9	2265.8	340.2	146.2	109.3	92.4	81.6	73.9	73.9	72.3
57.5°	5481.4	4611.7	2075.0	287.8	137.0	100.1	84.7	72.3	63.1	60.0	60.0
60°	5444.5	4519.4	1873.3	250.9	127.8	92.4	75.4	61.6	52.3	49.3	49.3
62.5°	5398.3	4345.4	1588.6	218.6	118.5	89.3	63.1	50.8	44.6	41.6	41.6
65°	5204.4	4074.5	1271.5	186.3	109.3	78.5	55.4	44.6	38.5	35.4	35.4
67.5°	4882.6	3662.0	919.0	158.5	101.6	66.2	49.3	38.5	32.3	30.8	29.2
70°	4402.4	3092.4	569.5	137.0	87.7	60.0	43.1	33.9	29.2	24.6	24.6
72.5°	3669.7	2421.3	298.6	107.8	69.3	50.8	38.5	30.8	24.6	21.6	20.0
75°	2579.9	1493.1	215.5	83.1	47.7	41.6	32.3	26.2	21.6	18.5	16.9
77.5°	1245.3	514.1	150.9	61.6	33.9	30.8	24.6	21.6	16.9	15.4	15.4
80°	455.6	292.5	107.8	44.6	27.7	24.6	18.5	16.9	13.9	12.3	12.3
82.5°	204.7	138.5	61.6	29.2	20.0	18.5	13.9	10.8	10.8	10.8	10.8
85°	33.9	29.2	20.0	13.9	10.8	9.2	9.2	7.7	7.7	7.7	7.7
87.5°	9.2	9.2	7.7	7.7	6.2	4.6	3.1	3.1	3.1	4.6	4.6
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)