

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: P509534

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

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P509534
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2102-155-5)
Test Lab: INNOVATION CENTER
Issue Date: 4/6/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VERD-G-CA2-120-722-U-T3-HSS
Description: VERDEON-G 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: 13356 lumens
Efficiency: N/A
Efficacy: 107.1 lumens/watt
Luminous Opening: Rectangular (W 0.9' x L: 1.25' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

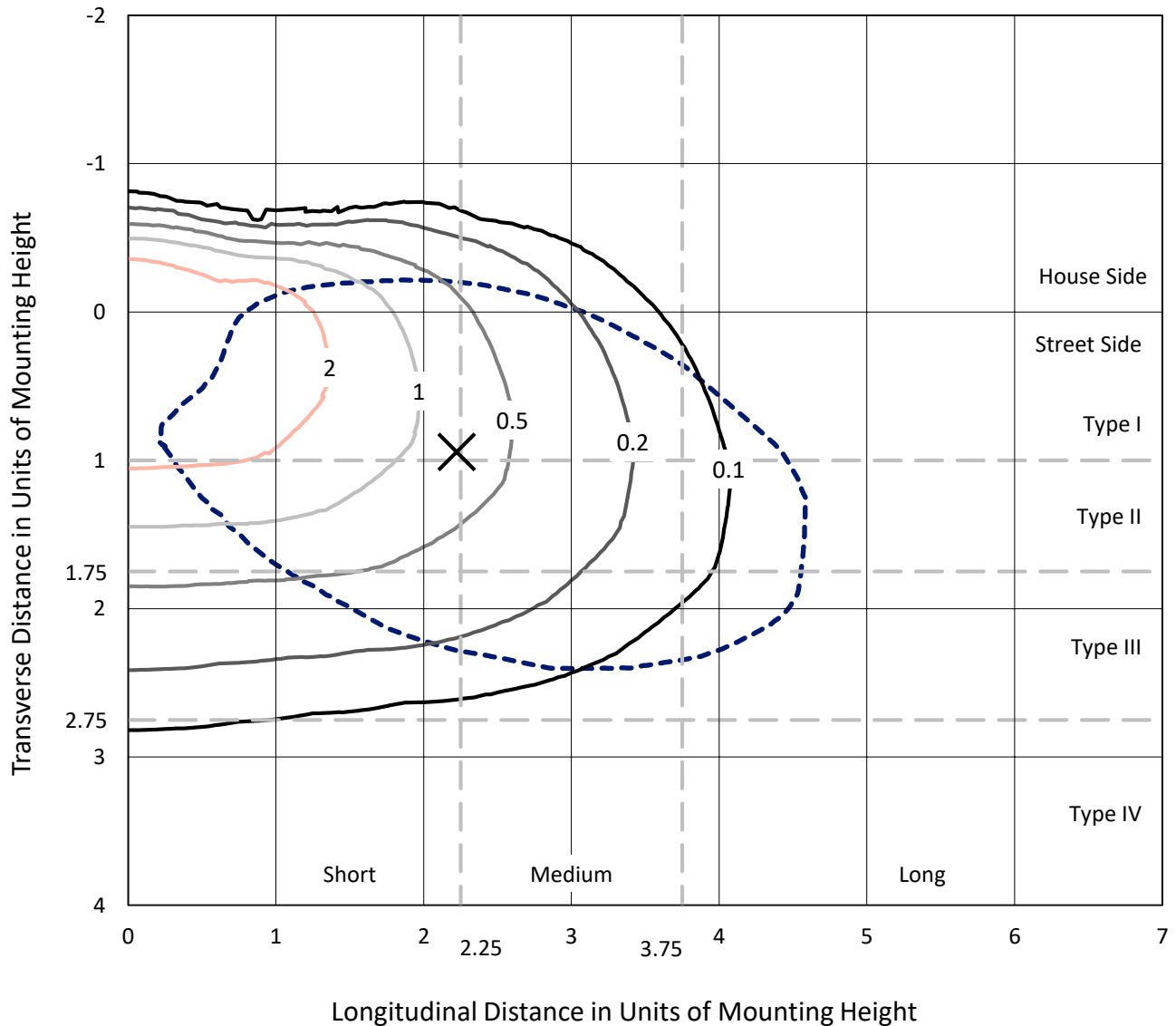
Input Watts (W): 124.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

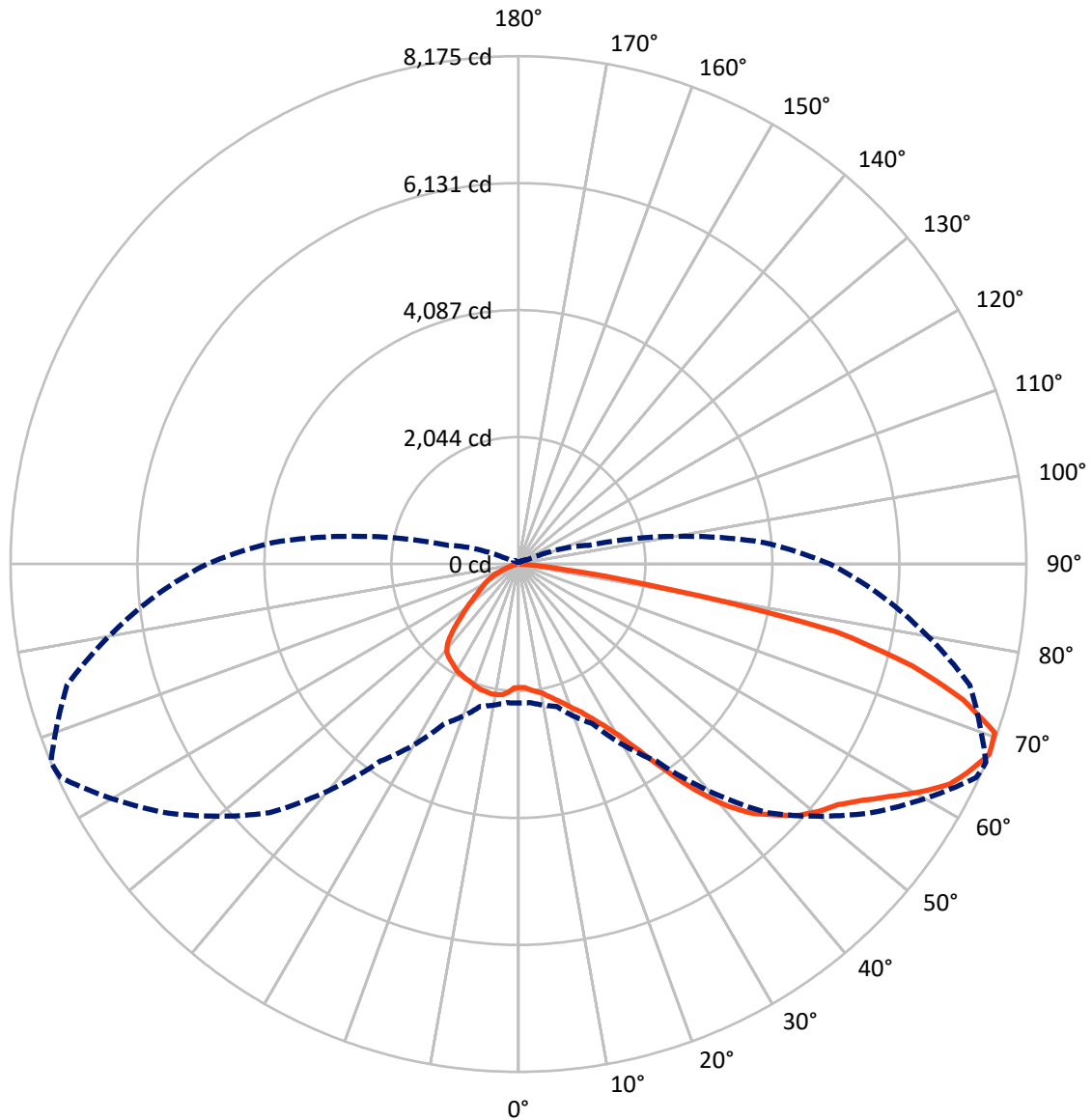
✕ Max cd
 - - - 1/2 Max cd



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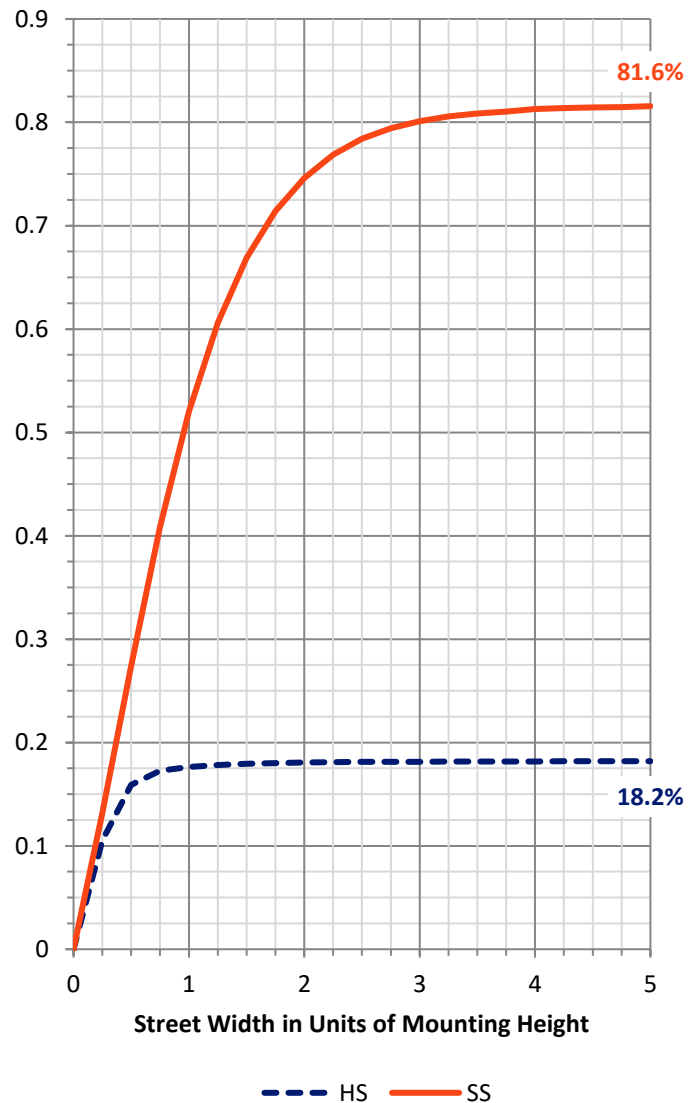
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2458.3	0.0	2458.3
	% Fixture	18.4	0.0	18.4
Street Side	Lumens	10897.7	0.0	10897.7
	% Fixture	81.6	0.0	81.6
Total	Lumens	13356.0	0.0	13356.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	200.0	1.5
10°-20°	625.2	4.7
20°-30°	1065.9	8.0
30°-40°	1625.7	12.2
40°-50°	2291.7	17.2
50°-60°	2770.0	20.7
60°-70°	2917.4	21.8
70°-80°	1735.4	13.0
80°-90°	124.8	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°	13356.0	100.0
0°-180°	13356.0	100.0



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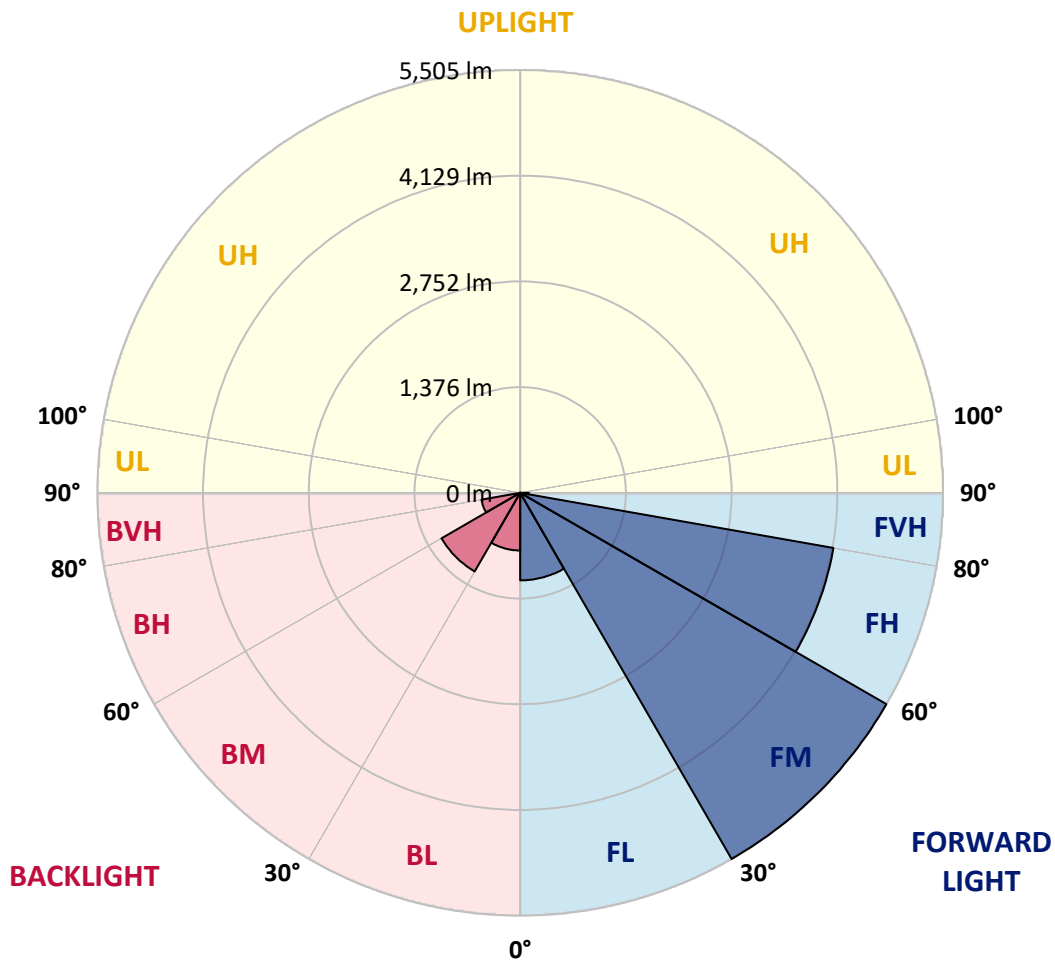
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1140.2	8.5			
FM (30°-60°)	5504.7	41.2			
FH (60°-80°)	4141.0	31.0			G2/5000
FVH (80°-90°)	111.7	0.8			G2/225
BL (0°-30°)	750.7	5.6	B2/1000		
BM (30°-60°)	1182.7	8.9	B2/2500		
BH (60°-80°)	511.8	3.8	B2/1000		G2/1000
BVH (80°-90°)	13.1	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°	1988.3	1988.3	1988.3	1988.3	1988.3	1988.3	1988.3	1988.3	1988.3	1988.3	1988.3
2.5°	2030.3	2038.0	2022.7	2018.9	1998.8	2001.7	1997.8	1988.3	1992.1	1984.5	1989.2
5°	2108.7	2088.6	2082.9	2071.4	2053.3	2042.7	2027.5	2022.7	2033.2	2024.6	2026.5
7.5°	2191.8	2195.6	2169.8	2147.8	2115.4	2107.7	2081.0	2064.7	2075.2	2063.8	2070.5
10°	2295.9	2301.7	2274.0	2244.3	2216.6	2176.5	2143.1	2117.3	2114.4	2108.7	2118.2
12.5°	2432.6	2431.6	2401.0	2364.7	2310.3	2282.6	2218.5	2182.2	2187.0	2166.0	2164.1
15°	2591.2	2577.8	2542.4	2505.2	2437.3	2382.9	2305.5	2260.6	2268.2	2244.3	2238.6
17.5°	2746.0	2732.6	2704.9	2663.8	2601.7	2517.6	2423.0	2358.0	2356.1	2344.7	2310.3
20°	2904.6	2910.3	2873.0	2835.8	2773.7	2660.9	2553.9	2469.8	2471.7	2451.7	2384.8
22.5°	3089.9	3079.4	3034.5	3017.3	2946.6	2823.3	2703.9	2607.4	2588.3	2584.5	2468.9
25°	3266.7	3260.0	3218.9	3198.8	3139.6	3026.9	2872.1	2756.5	2753.6	2741.2	2577.8
27.5°	3407.1	3414.8	3410.9	3396.6	3331.6	3220.8	3085.1	2946.6	2948.5	2930.4	2719.2
30°	3606.8	3583.9	3575.3	3586.8	3581.0	3461.6	3317.3	3217.0	3210.3	3163.5	2897.9
32.5°	3723.4	3734.8	3746.3	3786.4	3787.4	3698.5	3604.9	3557.1	3583.9	3591.5	3342.2
35°	3830.4	3830.4	3896.3	3997.6	4032.9	4002.4	3962.2	4022.4	4075.0	4181.0	3888.7
37.5°	3925.9	3953.6	4015.7	4142.8	4258.4	4288.0	4376.0	4541.2	4605.3	4701.8	4349.2
40°	4006.2	4026.3	4105.6	4261.3	4460.0	4595.7	4760.0	5022.8	5089.7	5071.5	4605.3
42.5°	3917.3	3949.8	4076.9	4397.0	4647.3	4902.4	5117.4	5401.1	5482.4	5314.2	4874.7
45°	3869.6	3882.0	4014.8	4377.9	4784.9	5212.9	5456.6	5760.4	5760.4	5572.2	5064.8
47.5°	3774.0	3796.0	3953.6	4353.0	4931.1	5471.8	5718.4	6027.9	6048.0	5815.8	5254.0
50°	3677.5	3705.2	3883.9	4309.1	5013.2	5731.7	5941.0	6251.5	6259.1	5983.0	5421.2
52.5°	3582.0	3596.3	3796.0	4280.4	5104.0	5865.5	6133.0	6433.0	6436.9	6233.3	5605.6
55°	3410.9	3446.3	3652.7	4175.3	5099.2	5926.6	6233.3	6675.7	6713.0	6505.6	5787.1
57.5°	3250.4	3260.9	3486.4	4023.4	5021.8	5997.3	6449.3	7023.5	7059.8	6753.1	5921.9
60°	3036.4	3047.9	3290.6	3842.8	4907.2	6068.0	6723.5	7429.6	7445.8	7013.0	6023.1
62.5°	2812.8	2852.0	3051.7	3565.7	4669.3	6080.5	6955.7	7804.1	7797.4	7238.5	6090.0
65°	2550.1	2564.4	2756.5	3241.8	4305.2	5985.9	7051.2	7985.6	8001.9	7397.1	6046.1
67.5°	2234.8	2240.5	2372.4	2838.6	3874.3	5660.1	6971.9	8133.7	8174.8	7521.3	5862.6
70°	1765.7	1774.3	1895.6	2338.9	3262.9	5161.3	6838.1	8150.9	8133.7	7409.5	5583.6
72.5°	1230.6	1218.2	1336.7	1640.5	2470.8	4245.1	6192.3	7457.3	7487.8	6855.3	4999.9
75°	589.5	593.3	828.4	1009.0	1387.3	3032.6	5153.7	6421.6	6549.6	5974.4	4073.1
77.5°	100.3	102.2	218.8	397.5	558.9	1272.7	3417.6	5114.5	5223.4	4689.3	2757.4
80°	80.3	80.3	107.0	214.0	296.2	527.4	1294.6	2267.3	2385.8	2124.0	1016.6
82.5°	54.5	57.3	76.4	125.2	105.1	206.4	470.1	717.5	736.7	667.9	417.5
85°	30.6	31.5	39.2	50.6	44.0	76.4	96.5	98.4	104.1	81.2	62.1
87.5°	3.8	8.6	8.6	8.6	3.8	3.8	2.9	2.9	3.8	2.9	2.9
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°	1988.3	1988.3	1988.3	1988.3	1988.3	1988.3	1988.3	1988.3	1988.3	1988.3	1988.3
2.5°	1986.4	1974.9	1999.8	1995.0	2012.2	2009.3	2023.6	2031.3	2047.5	2068.5	2066.6
5°	2028.4	2027.5	2057.1	2071.4	2086.7	2101.0	2102.0	2116.3	2130.6	2162.2	2161.2
7.5°	2068.5	2077.1	2119.2	2120.1	2125.9	2136.4	2122.0	2126.8	2130.6	2142.1	2145.9
10°	2115.4	2131.6	2132.6	2128.7	2110.6	2109.6	2077.1	2081.0	2063.8	2077.1	2070.5
12.5°	2175.6	2162.2	2154.5	2128.7	2101.0	2063.8	2033.2	1991.2	1981.6	1981.6	1984.5
15°	2234.8	2214.7	2148.8	2107.7	2057.1	1997.8	1948.2	1900.4	1876.5	1866.0	1864.1
17.5°	2286.4	2244.3	2150.7	2097.2	2001.7	1914.7	1840.2	1763.8	1726.5	1702.6	1698.8
20°	2328.4	2283.5	2156.4	2062.8	1941.5	1813.4	1700.7	1604.2	1530.6	1476.2	1481.9
22.5°	2399.1	2327.5	2152.6	2021.7	1871.7	1705.5	1535.4	1402.6	1279.3	1248.8	1257.4
25°	2484.2	2390.5	2174.6	1996.9	1790.5	1569.8	1346.2	1192.4	1060.5	1018.5	1021.4
27.5°	2582.6	2467.0	2199.4	1955.8	1706.4	1402.6	1133.2	943.0	837.9	754.8	748.1
30°	2739.3	2571.1	2226.2	1929.0	1588.9	1216.3	901.0	703.2	571.4	526.5	526.5
32.5°	3107.1	2782.3	2269.2	1865.0	1434.1	1008.0	657.3	460.5	344.0	303.8	304.8
35°	3574.3	3208.4	2366.6	1786.7	1251.6	764.4	406.1	256.1	201.6	181.5	179.6
37.5°	4020.5	3600.1	2574.9	1695.0	1021.4	484.4	228.4	157.6	137.6	136.6	137.6
40°	4295.7	3909.7	2784.2	1572.7	746.2	266.6	148.1	129.0	126.1	123.3	123.3
42.5°	4549.8	4122.8	2942.8	1385.4	445.2	161.5	129.9	117.5	115.6	110.8	110.8
45°	4756.2	4275.6	2955.2	1136.0	236.0	143.3	119.4	107.0	103.2	100.3	99.4
47.5°	4952.1	4424.7	2910.3	870.4	168.2	132.8	111.8	98.4	93.6	95.5	94.6
50°	5083.9	4573.7	2788.0	684.1	160.5	123.3	103.2	89.8	87.9	91.7	90.8
52.5°	5226.3	4696.0	2550.1	532.2	149.0	113.7	94.6	84.1	80.3	83.1	84.1
55°	5339.0	4694.1	2375.2	415.6	141.4	106.1	88.9	79.3	72.6	72.6	71.7
57.5°	5394.5	4649.2	2234.8	326.8	132.8	98.4	83.1	69.7	62.1	60.2	59.2
60°	5391.6	4605.3	2071.4	268.5	124.2	89.8	74.5	59.2	51.6	47.8	47.8
62.5°	5361.0	4502.1	1812.5	231.2	115.6	83.1	62.1	48.7	43.0	39.2	40.1
65°	5282.7	4303.3	1494.3	196.8	107.0	80.3	52.5	43.0	37.3	33.4	33.4
67.5°	5011.3	3969.9	1165.6	165.3	98.4	66.9	45.9	36.3	31.5	27.7	27.7
70°	4627.2	3461.6	767.2	139.5	87.9	58.3	41.1	31.5	26.8	22.9	22.0
72.5°	3944.1	2766.0	389.8	119.4	75.5	51.6	36.3	27.7	22.9	19.1	18.2
75°	3024.9	1863.1	242.7	95.5	59.2	45.9	32.5	24.8	19.1	14.3	13.4
77.5°	1803.9	750.0	172.0	66.9	40.1	36.3	26.8	20.1	15.3	10.5	10.5
80°	569.4	331.5	116.6	45.9	25.8	24.8	20.1	14.3	10.5	7.6	7.6
82.5°	322.0	210.2	78.3	30.6	18.2	16.2	11.5	8.6	6.7	5.7	5.7
85°	53.5	42.0	23.9	11.5	8.6	7.6	4.8	2.9	1.9	1.0	1.9
87.5°	2.9	2.9	3.8	3.8	3.8	2.9	1.9	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)