

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: P553572

Luminaire Tested: **VERD-G-CA2-150-740-U-T4-HSS**

Issue Date: 7/12/2021

Test Information

Test Method: LM-79-08
Report Number: P553572
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2102-155-7)
Test Lab: INNOVATION CENTER
Issue Date: 7/12/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VERD-G-CA2-150-740-U-T4-HSS
Description: VERDEON-G ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 4000K, 1380mA LEDS AND TYPE IV OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19278 lumens
Efficiency: N/A
Efficacy: 126.7 lumens/watt
Luminous Opening: Rectangular (W 0.9' x L: 1.25' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

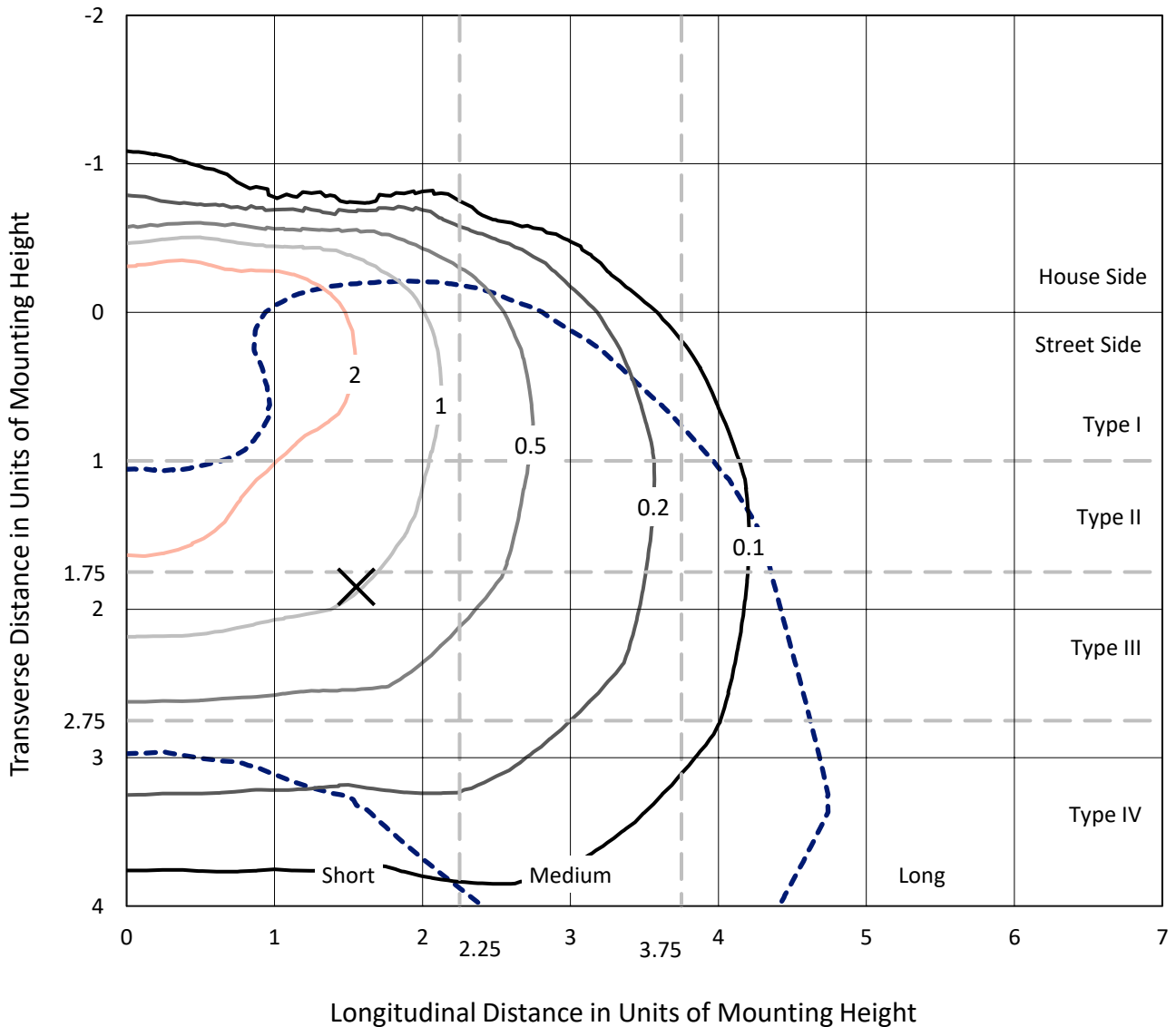
Input Watts (W): 152.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

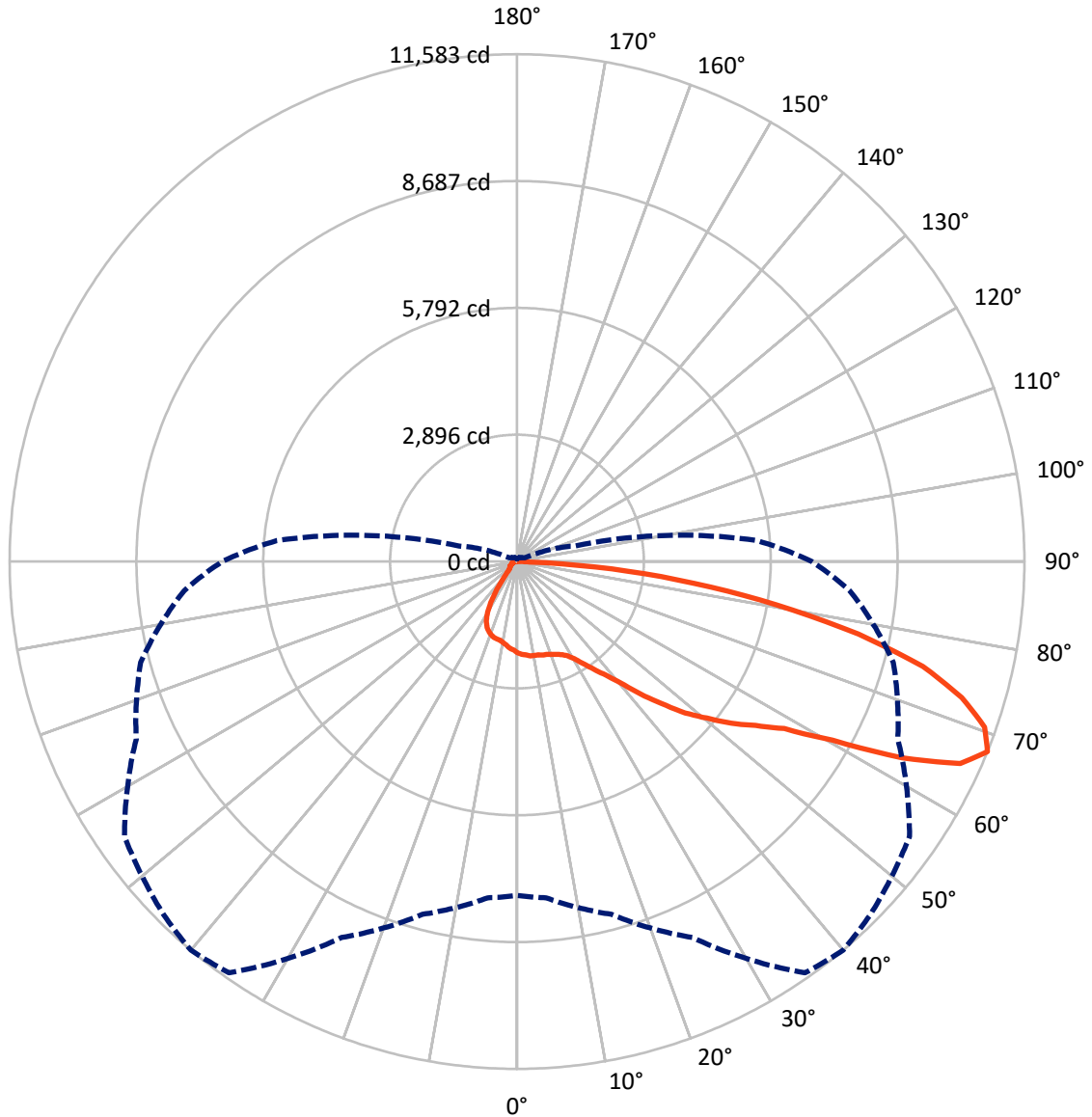
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.9 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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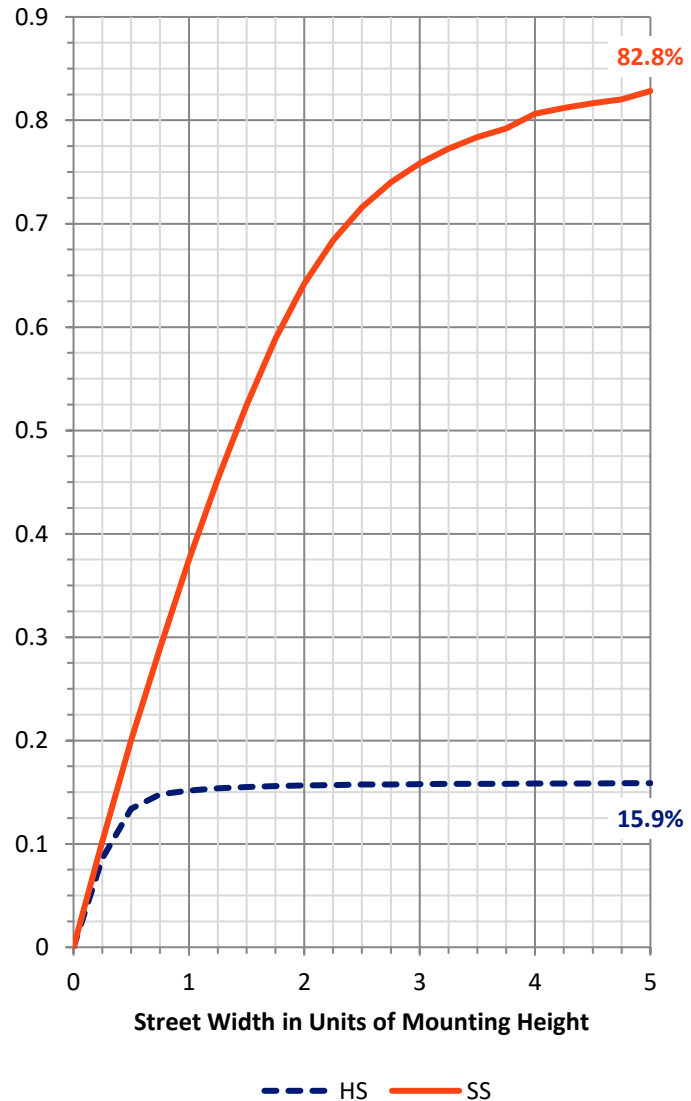
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3093.8	0.0	3093.8
	% Fixture	16.0	0.0	16.0
Street Side	Lumens	16184.2	0.0	16184.2
	% Fixture	84.0	0.0	84.0
Total	Lumens	19278.0	0.0	19278.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	197.5	1.0
10°-20°	585.7	3.0
20°-30°	974.4	5.1
30°-40°	1532.3	7.9
40°-50°	2653.1	13.8
50°-60°	3921.7	20.3
60°-70°	5098.5	26.4
70°-80°	3649.3	18.9
80°-90°	665.5	3.5
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°	19278.0	100.0
0°-180°	19278.0	100.0

Coefficient of Utilization



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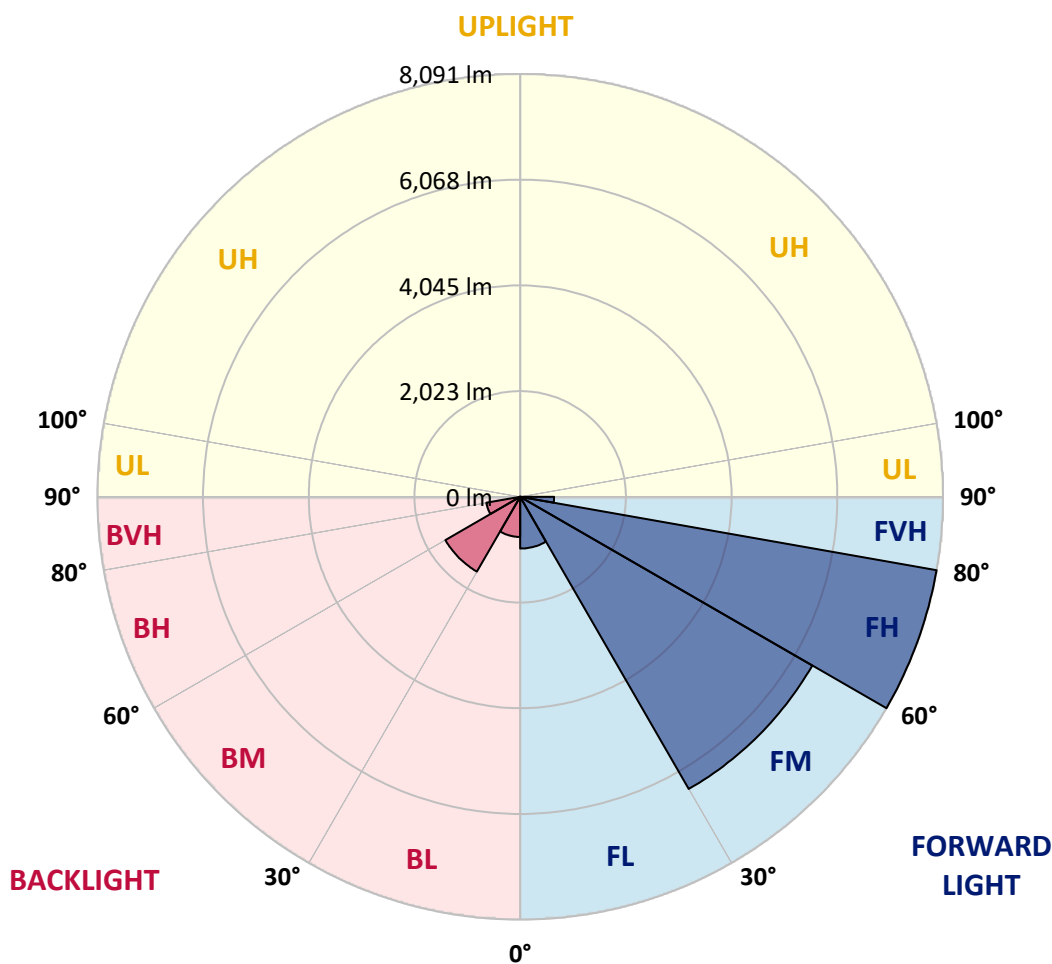
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	990.2	5.1			
FM	(30°-60°)	6454.4	33.5			
FH	(60°-80°)	8090.5	42.0			G4/12000
FVH	(80°-90°)	649.1	3.4			G4/750
BL	(0°-30°)	767.5	4.0	B2/1000		
BM	(30°-60°)	1652.6	8.6	B2/2500		
BH	(60°-80°)	657.3	3.4	B2/1000		G2/1000
BVH	(80°-90°)	16.4	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-G4

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	2086.8	2086.8	2086.8	2086.8	2086.8	2086.8	2086.8	2086.8	2086.8	2086.8	2086.8
2.5°	2171.2	2169.8	2155.5	2148.3	2128.3	2121.1	2122.6	2114.0	2093.9	2096.8	2076.8
5°	2174.1	2184.1	2162.6	2156.9	2149.8	2141.2	2151.2	2139.7	2122.6	2128.3	2106.8
7.5°	2187.0	2191.3	2181.2	2175.5	2158.3	2175.5	2174.1	2164.1	2152.6	2142.6	2134.0
10°	2191.3	2187.0	2166.9	2162.6	2162.6	2179.8	2187.0	2191.3	2191.3	2175.5	2169.8
12.5°	2169.8	2166.9	2146.9	2155.5	2174.1	2185.5	2208.4	2222.7	2245.6	2228.5	2219.9
15°	2136.9	2144.0	2152.6	2155.5	2189.8	2215.6	2237.1	2262.8	2301.5	2301.5	2298.6
17.5°	2146.9	2161.2	2171.2	2185.5	2218.5	2227.0	2257.1	2298.6	2363.0	2367.3	2374.5
20°	2197.0	2197.0	2199.8	2209.9	2238.5	2264.3	2290.0	2343.0	2417.4	2441.7	2448.9
22.5°	2251.4	2248.5	2261.4	2260.0	2282.9	2300.0	2333.0	2378.8	2471.8	2517.6	2536.2
25°	2295.7	2304.3	2315.8	2301.5	2345.8	2353.0	2378.8	2434.6	2533.3	2614.9	2655.0
27.5°	2371.6	2377.3	2374.5	2381.6	2426.0	2430.3	2454.6	2534.8	2626.4	2738.0	2825.3
30°	2501.8	2481.8	2484.7	2500.4	2564.8	2573.4	2599.2	2676.5	2749.5	2896.9	3034.3
32.5°	2680.8	2680.8	2649.3	2679.3	2753.7	2776.6	2815.3	2931.2	3002.8	3081.5	3307.6
35°	3022.8	3022.8	2999.9	2921.2	2958.4	3015.7	3087.2	3247.5	3467.9	3725.6	3966.0
37.5°	3589.6	3581.0	3490.8	3349.2	3269.0	3289.0	3359.2	3618.2	3976.0	4604.4	4789.0
40°	4266.6	4242.3	4073.4	3875.9	3671.2	3636.8	3669.8	3994.7	4504.2	5435.9	5506.1
42.5°	4867.7	4866.3	4618.7	4451.2	4189.3	4132.1	4093.4	4375.4	5033.7	6039.9	6064.3
45°	5441.7	5427.3	5186.9	5005.1	4766.1	4620.1	4610.1	4807.6	5590.5	6583.8	6480.8
47.5°	5952.6	5974.1	5705.0	5530.4	5265.6	5165.4	5085.3	5254.2	6102.9	7047.5	6834.3
50°	6540.9	6579.5	6177.3	5985.5	5717.9	5619.1	5663.5	5788.0	6613.9	7426.8	7149.1
52.5°	7283.7	7160.6	6761.3	6432.1	6183.0	6134.4	6144.4	6317.6	7205.0	7737.4	7368.1
55°	8158.2	7976.4	7575.7	7061.8	6655.4	6609.6	6605.3	6781.3	7751.7	8027.9	7537.0
57.5°	8487.4	8581.8	8424.4	8045.1	7326.6	7192.1	7087.6	7250.8	8242.6	8348.5	7714.5
60°	9247.4	9349.0	9233.1	8989.8	8746.4	8278.4	7820.4	7804.7	8700.6	8654.8	7788.9
62.5°	9331.8	9298.9	9814.2	9900.0	10044.6	9862.8	9523.6	8538.9	9114.3	8810.8	7847.6
65°	8859.5	8863.8	9555.1	10027.4	11026.4	11119.5	10909.1	9706.8	9424.9	8872.4	7806.1
67.5°	7622.9	7707.3	8337.1	9469.2	11461.5	11583.2	11405.7	10939.1	9592.3	8893.9	7625.8
70°	6550.9	6553.7	7149.1	8530.3	11232.5	11324.1	11242.6	11019.3	9527.9	8723.5	7136.3
72.5°	5155.4	5139.7	5662.1	7057.5	10423.9	10618.5	10574.2	10727.3	9291.7	8108.1	6071.4
75°	3722.7	3754.2	4283.8	5435.9	8966.9	9570.8	9785.5	10252.1	8450.2	6885.8	4451.2
77.5°	2606.3	2637.8	3145.9	4129.2	7236.5	7965.0	8309.9	8719.2	6848.6	5103.9	2281.4
80°	1704.6	1733.3	2169.8	3101.5	5394.4	6015.6	6274.6	6029.9	4021.8	2144.0	250.5
82.5°	990.4	1046.3	1378.3	2128.3	3780.0	4074.8	4089.1	3173.1	1502.8	191.8	117.4
85°	482.3	518.1	824.4	1262.4	2068.2	2174.1	2016.6	1180.8	350.7	91.6	67.3
87.5°	71.6	94.5	324.9	476.6	350.7	287.7	173.2	40.1	22.9	11.5	8.6
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°	2086.8	2086.8	2086.8	2086.8	2086.8	2086.8	2086.8	2086.8	2086.8	2086.8	2086.8
2.5°	2065.3	2063.9	2068.2	2049.6	2051.0	2028.1	2019.5	2015.2	2035.3	2032.4	2046.7
5°	2091.1	2076.8	2075.3	2029.5	2025.2	1996.6	1979.4	1953.7	1973.7	1969.4	1969.4
7.5°	2106.8	2092.5	2083.9	2029.5	1992.3	1942.2	1913.6	1893.6	1892.1	1887.8	1889.3
10°	2132.6	2125.4	2079.6	2019.5	1969.4	1905.0	1850.6	1819.1	1804.8	1806.3	1796.2
12.5°	2189.8	2175.5	2114.0	2042.4	1962.3	1873.5	1803.4	1747.6	1718.9	1713.2	1697.5
15°	2271.4	2255.7	2178.4	2096.8	1980.9	1876.4	1771.9	1673.1	1624.5	1604.4	1590.1
17.5°	2367.3	2343.0	2254.2	2161.2	2019.5	1873.5	1741.8	1608.7	1515.7	1462.7	1458.5
20°	2443.2	2431.7	2330.1	2229.9	2043.8	1854.9	1691.8	1515.7	1376.9	1279.5	1259.5
22.5°	2543.4	2544.8	2431.7	2281.4	2063.9	1823.4	1613.0	1385.5	1196.5	1066.3	1043.4
25°	2687.9	2666.4	2539.1	2322.9	2068.2	1787.6	1505.7	1222.3	976.1	830.1	804.4
27.5°	2861.1	2829.6	2626.4	2344.4	2049.6	1716.1	1362.6	1009.0	721.4	595.4	575.4
30°	3044.3	2969.9	2697.9	2353.0	1992.3	1600.2	1159.3	737.1	511.0	422.2	413.6
32.5°	3279.0	3170.2	2759.5	2324.4	1905.0	1424.1	898.8	505.2	353.5	306.3	309.2
35°	3759.9	3493.7	2855.4	2292.9	1781.9	1203.7	628.3	334.9	273.4	267.6	269.1
37.5°	4487.0	4064.8	3024.3	2247.1	1598.7	920.3	403.6	259.1	260.5	260.5	260.5
40°	5189.8	4688.8	3283.3	2156.9	1374.0	644.1	266.2	244.7	251.9	250.5	251.9
42.5°	5690.7	5152.5	3555.3	2046.7	1115.0	407.9	239.0	230.4	234.7	233.3	237.6
45°	6097.2	5550.4	3802.9	1890.7	834.4	266.2	234.7	219.0	214.7	213.3	217.6
47.5°	6397.7	5812.4	3980.3	1696.0	556.8	229.0	224.7	201.8	196.1	196.1	197.5
50°	6689.7	6064.3	4033.3	1474.2	343.5	223.3	211.8	187.5	178.9	176.0	178.9
52.5°	6893.0	6150.1	4044.7	1223.7	230.4	217.6	196.1	170.3	160.3	158.9	160.3
55°	7066.1	6326.2	3951.7	911.7	206.1	204.7	181.8	153.1	141.7	147.4	150.3
57.5°	7109.1	6343.3	3765.6	602.6	204.7	187.5	166.0	137.4	128.8	134.5	136.0
60°	7217.9	6273.2	3533.8	370.7	200.4	167.5	147.4	121.7	115.9	117.4	120.2
62.5°	7124.8	6234.6	3137.3	259.1	184.6	153.1	137.4	111.6	101.6	100.2	100.2
65°	7030.4	6007.0	2398.8	214.7	164.6	143.1	124.5	98.8	87.3	81.6	81.6
67.5°	6729.8	5497.5	1369.7	198.9	148.9	131.7	113.1	90.2	75.9	68.7	65.8
70°	5972.7	4404.0	422.2	181.8	150.3	123.1	104.5	78.7	65.8	55.8	54.4
72.5°	4677.4	2753.7	197.5	160.3	154.6	114.5	97.3	73.0	58.7	47.2	45.8
75°	2752.3	659.8	161.7	118.8	131.7	121.7	95.9	70.1	51.5	38.6	37.2
77.5°	598.3	160.3	144.6	80.2	98.8	117.4	91.6	61.5	45.8	30.1	28.6
80°	144.6	126.0	131.7	61.5	65.8	81.6	74.4	53.0	41.5	24.3	22.9
82.5°	97.3	94.5	115.9	38.6	32.9	30.1	31.5	32.9	34.4	18.6	17.2
85°	64.4	81.6	61.5	21.5	18.6	15.7	15.7	14.3	20.0	11.5	11.5
87.5°	10.0	8.6	10.0	8.6	8.6	7.2	5.7	5.7	4.3	5.7	5.7
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)