

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: P553524

Luminaire Tested: **VERD-G-CA2-140-740-U-T4-HSS**

Issue Date: 7/12/2021

Test Information

Test Method: LM-79-08
Report Number: P553524
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-CA2-140-740-U-T4-HSS
Description: VERDEON-G ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 4000K, 1290mA LEDS AND TYPE IV OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18278 lumens
Efficiency: N/A
Efficacy: 128.4 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

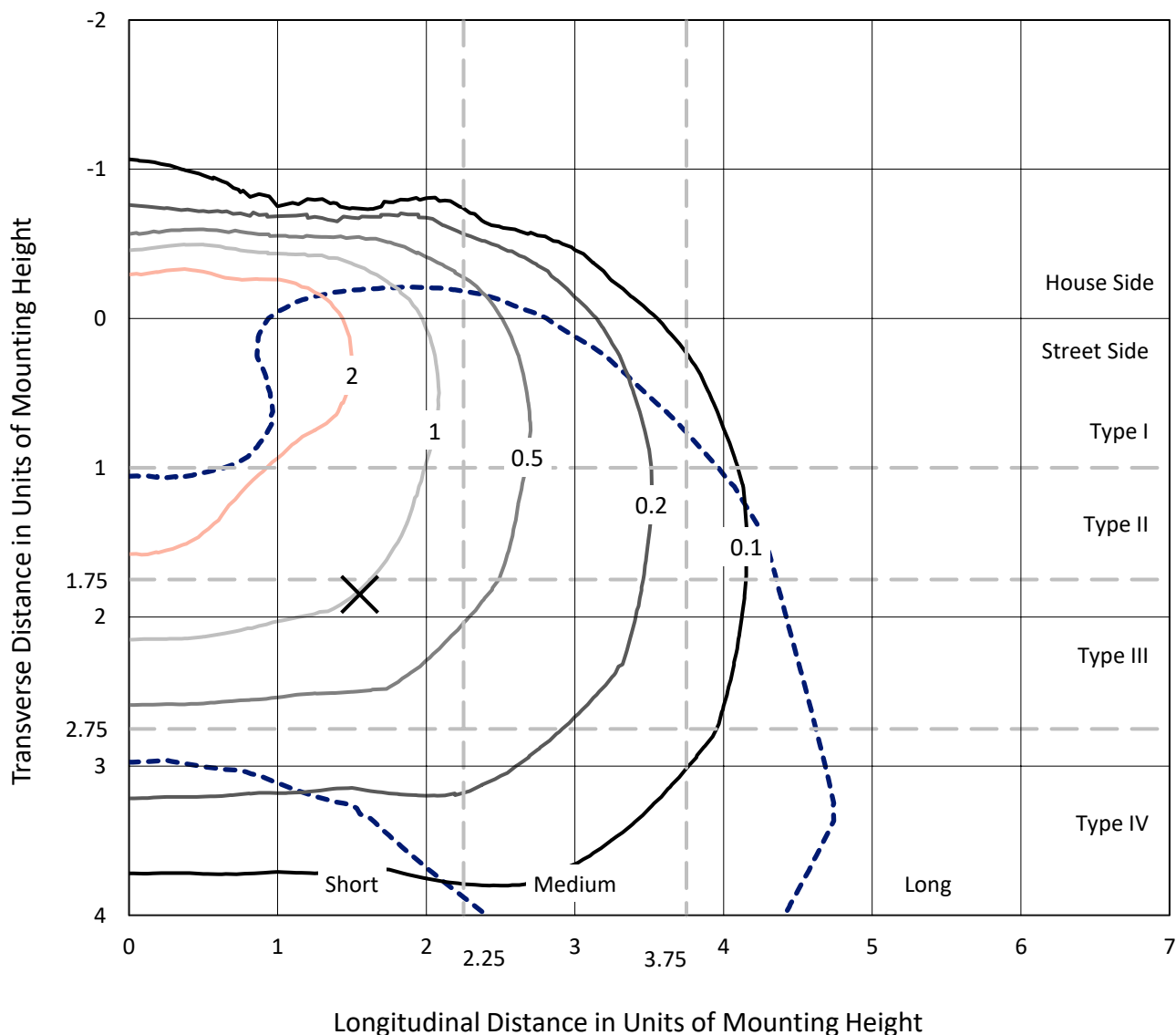
Input Watts (W): 142.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

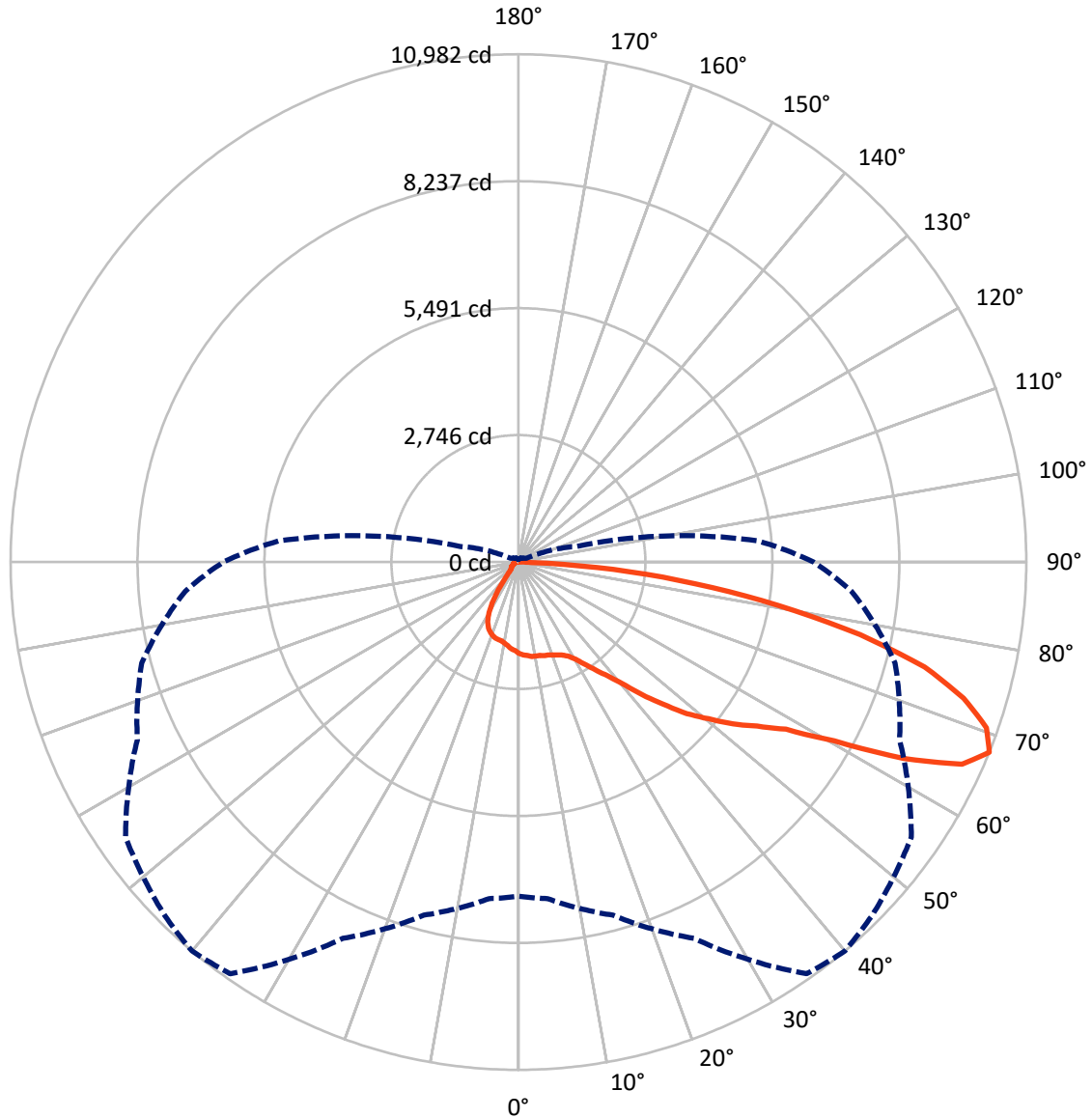
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.7 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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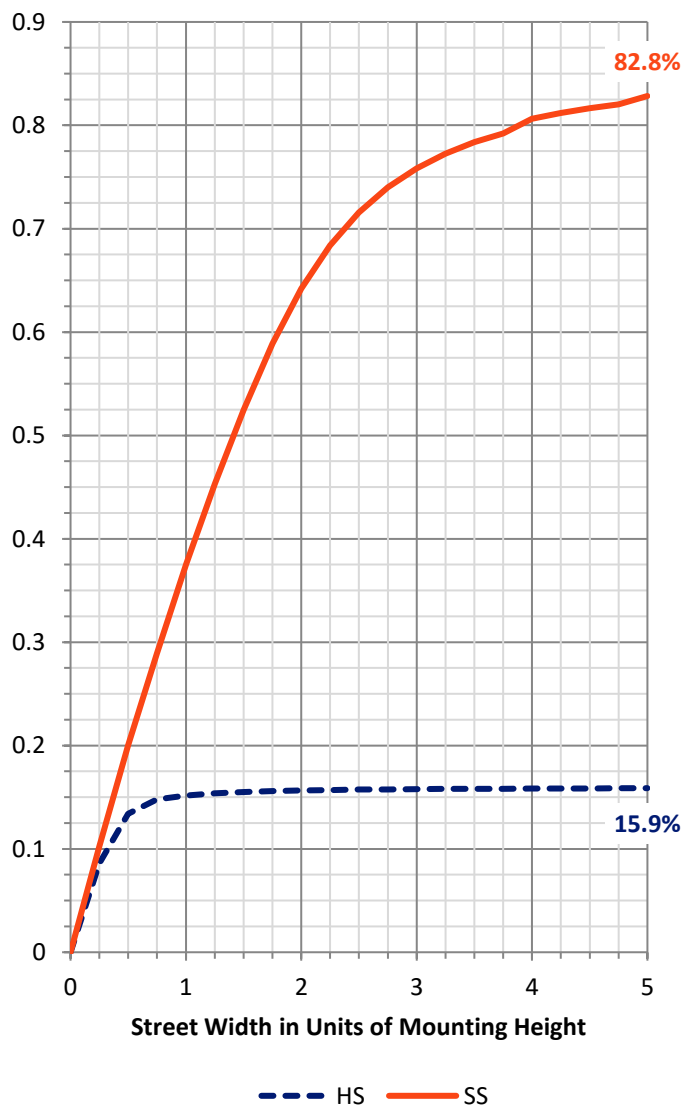
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2933.3	0.0	2933.3
	% Fixture	16.0	0.0	16.0
Street Side	Lumens	15344.7	0.0	15344.7
	% Fixture	84.0	0.0	84.0
Total	Lumens	18278.0	0.0	18278.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	187.2	1.0
10°-20°	555.4	3.0
20°-30°	923.9	5.1
30°-40°	1452.8	7.9
40°-50°	2515.4	13.8
50°-60°	3718.3	20.3
60°-70°	4834.0	26.4
70°-80°	3460.0	18.9
80°-90°	631.0	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°	18278.0	100.0
0°-180°	18278.0	100.0

Coefficient of Utilization



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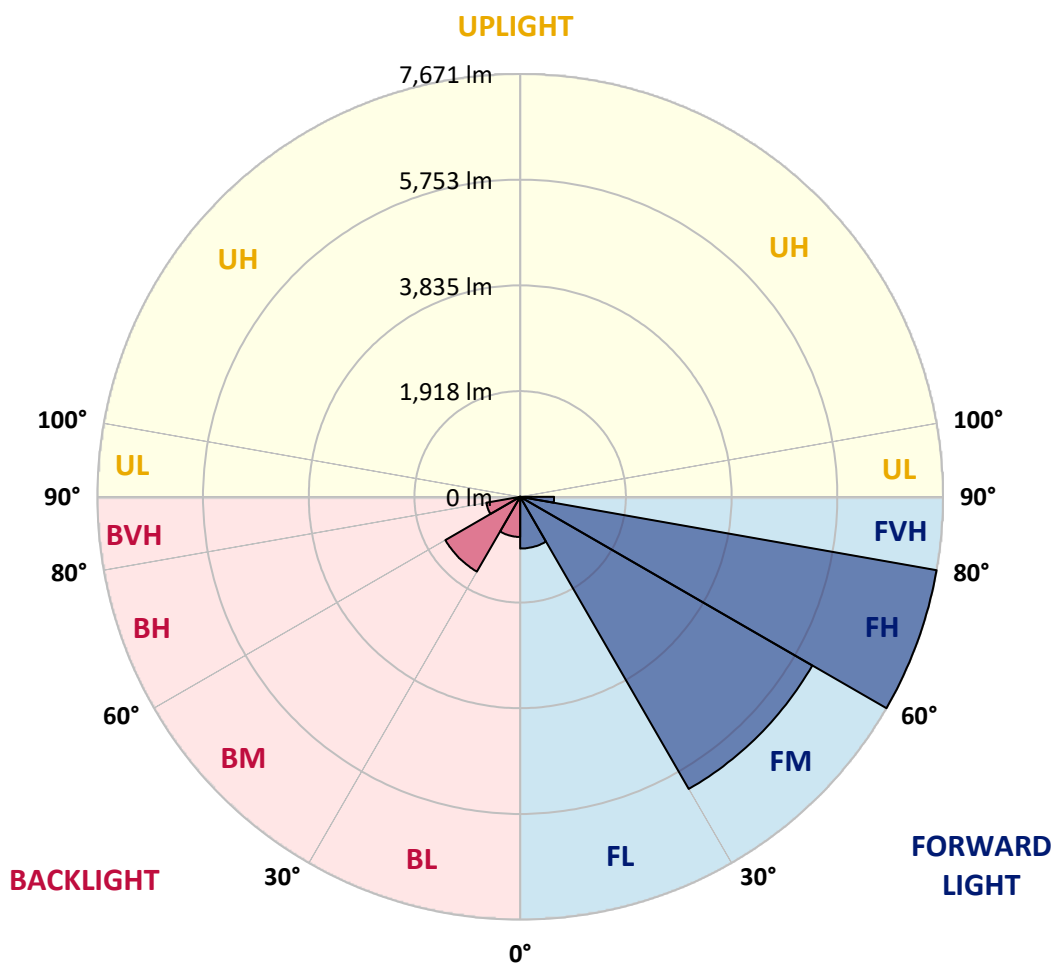
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	938.8	5.1			
FM	(30°-60°)	6119.6	33.5			
FH	(60°-80°)	7670.8	42.0			G4/12000
FVH	(80°-90°)	615.5	3.4			G4/750
BL	(0°-30°)	727.7	4.0	B2/1000		
BM	(30°-60°)	1566.9	8.6	B2/2500		
BH	(60°-80°)	623.2	3.4	B2/1000		G2/1000
BVH	(80°-90°)	15.5	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°	1978.5	1978.5	1978.5	1978.5	1978.5	1978.5	1978.5	1978.5	1978.5	1978.5	1978.5
2.5°	2058.6	2057.2	2043.7	2036.9	2017.9	2011.1	2012.5	2004.3	1985.3	1988.0	1969.0
5°	2061.3	2070.8	2050.5	2045.0	2038.2	2030.1	2039.6	2028.7	2012.5	2017.9	1997.5
7.5°	2073.5	2077.6	2068.1	2062.7	2046.4	2062.7	2061.3	2051.8	2041.0	2031.5	2023.3
10°	2077.6	2073.5	2054.5	2050.5	2050.5	2066.7	2073.5	2077.6	2077.6	2062.7	2057.2
12.5°	2057.2	2054.5	2035.5	2043.7	2061.3	2072.2	2093.9	2107.4	2129.2	2112.9	2104.7
15°	2026.0	2032.8	2041.0	2043.7	2076.2	2100.7	2121.0	2145.4	2182.1	2182.1	2179.4
17.5°	2035.5	2049.1	2058.6	2072.2	2103.4	2111.5	2140.0	2179.4	2240.4	2244.5	2251.3
20°	2083.0	2083.0	2085.7	2095.2	2122.4	2146.8	2171.2	2221.4	2292.0	2315.1	2321.9
22.5°	2134.6	2131.9	2144.1	2142.7	2164.4	2180.7	2211.9	2255.4	2343.6	2387.0	2404.6
25°	2176.7	2184.8	2195.7	2182.1	2224.2	2230.9	2255.4	2308.3	2401.9	2479.3	2517.3
27.5°	2248.6	2254.0	2251.3	2258.1	2300.1	2304.2	2327.3	2403.3	2490.1	2596.0	2678.8
30°	2372.1	2353.1	2355.8	2370.7	2431.8	2439.9	2464.3	2537.6	2606.8	2746.6	2876.9
32.5°	2541.7	2541.7	2511.8	2540.3	2610.9	2632.6	2669.3	2779.2	2847.0	2921.7	3136.1
35°	2866.0	2866.0	2844.3	2769.7	2805.0	2859.2	2927.1	3079.1	3288.1	3532.3	3760.3
37.5°	3403.4	3395.3	3309.8	3175.4	3099.4	3118.4	3184.9	3430.5	3769.8	4365.5	4540.6
40°	4045.3	4022.2	3862.1	3674.8	3480.8	3448.2	3479.4	3787.4	4270.5	5154.0	5220.4
42.5°	4615.2	4613.9	4379.1	4220.3	3972.0	3917.7	3881.1	4148.4	4772.6	5726.6	5749.7
45°	5159.4	5145.8	4917.8	4745.5	4518.9	4380.5	4371.0	4558.2	5300.5	6242.3	6144.6
47.5°	5643.8	5664.2	5409.1	5243.5	4992.5	4897.5	4821.5	4981.6	5786.3	6682.0	6479.8
50°	6201.6	6238.2	5856.9	5675.0	5421.3	5327.7	5369.7	5487.8	6270.8	7041.6	6778.3
52.5°	6905.9	6789.2	6410.6	6098.4	5862.3	5816.2	5825.7	5989.9	6831.2	7336.0	6985.9
55°	7735.0	7562.7	7182.7	6695.5	6310.1	6266.7	6262.6	6429.6	7349.6	7611.5	7146.1
57.5°	8047.1	8136.7	7987.4	7627.8	6946.6	6819.0	6720.0	6874.7	7815.1	7915.5	7314.3
60°	8767.7	8864.0	8754.1	8523.4	8292.7	7849.0	7414.7	7399.8	8249.3	8205.9	7384.9
62.5°	8847.8	8816.5	9305.1	9386.5	9523.6	9351.2	9029.6	8096.0	8641.5	8353.8	7440.5
65°	8399.9	8404.0	9059.5	9507.3	10454.5	10542.7	10343.2	9203.3	8936.0	8412.2	7401.2
67.5°	7227.5	7307.5	7904.6	8978.0	10867.0	10982.3	10814.1	10371.7	9094.7	8432.5	7230.2
70°	6211.1	6213.8	6778.3	8087.8	10649.9	10736.7	10659.4	10447.7	9033.7	8271.0	6766.1
72.5°	4888.0	4873.1	5368.4	6691.5	9883.2	10067.7	10025.6	10170.8	8809.8	7687.5	5756.5
75°	3529.6	3559.5	4061.6	5154.0	8501.7	9074.4	9277.9	9720.3	8011.8	6528.6	4220.3
77.5°	2471.1	2501.0	2982.7	3915.0	6861.1	7551.8	7878.8	8267.0	6493.3	4839.1	2163.1
80°	1616.2	1643.3	2057.2	2940.7	5114.6	5703.5	5949.2	5717.1	3813.2	2032.8	237.5
82.5°	939.1	992.0	1306.8	2017.9	3583.9	3863.4	3877.0	3008.5	1424.9	181.8	111.3
85°	457.3	491.2	781.6	1196.9	1960.9	2061.3	1912.0	1119.5	332.5	86.8	63.8
87.5°	67.9	89.6	308.0	451.9	332.5	272.8	164.2	38.0	21.7	10.9	8.1
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°	1978.5	1978.5	1978.5	1978.5	1978.5	1978.5	1978.5	1978.5	1978.5	1978.5	1978.5
2.5°	1958.2	1956.8	1960.9	1943.2	1944.6	1922.9	1914.8	1910.7	1929.7	1927.0	1940.5
5°	1982.6	1969.0	1967.7	1924.3	1920.2	1893.0	1876.8	1852.3	1871.3	1867.3	1867.3
7.5°	1997.5	1984.0	1975.8	1924.3	1889.0	1841.5	1814.3	1795.3	1794.0	1789.9	1791.3
10°	2022.0	2015.2	1971.7	1914.8	1867.3	1806.2	1754.6	1724.8	1711.2	1712.6	1703.1
12.5°	2076.2	2062.7	2004.3	1936.5	1860.5	1776.3	1709.8	1656.9	1629.8	1624.4	1609.4
15°	2153.6	2138.7	2065.4	1988.0	1878.1	1779.1	1680.0	1586.4	1540.2	1521.2	1507.6
17.5°	2244.5	2221.4	2137.3	2049.1	1914.8	1776.3	1651.5	1525.3	1437.1	1386.9	1382.8
20°	2316.4	2305.6	2209.2	2114.2	1937.8	1758.7	1604.0	1437.1	1305.5	1213.2	1194.2
22.5°	2411.4	2412.8	2305.6	2163.1	1956.8	1728.8	1529.4	1313.6	1134.5	1011.0	989.3
25°	2548.5	2528.1	2407.3	2202.4	1960.9	1694.9	1427.6	1158.9	925.5	787.1	762.6
27.5°	2712.7	2682.8	2490.1	2222.8	1943.2	1627.1	1291.9	956.7	683.9	564.5	545.5
30°	2886.4	2815.8	2558.0	2230.9	1889.0	1517.1	1099.2	698.9	484.5	400.3	392.2
32.5°	3108.9	3005.8	2616.3	2203.8	1806.2	1350.2	852.2	479.0	335.2	290.4	293.1
35°	3564.9	3312.5	2707.3	2173.9	1689.5	1141.3	595.7	317.5	259.2	253.8	255.1
37.5°	4254.3	3853.9	2867.4	2130.5	1515.8	872.6	382.7	245.6	247.0	247.0	247.0
40°	4920.5	4445.6	3113.0	2045.0	1302.7	610.7	252.4	232.1	238.8	237.5	238.8
42.5°	5395.5	4885.3	3370.8	1940.5	1057.1	386.8	226.6	218.5	222.6	221.2	225.3
45°	5780.9	5262.5	3605.6	1792.6	791.1	252.4	222.6	207.6	203.6	202.2	206.3
47.5°	6065.9	5510.9	3773.9	1608.1	527.9	217.1	213.1	191.3	185.9	185.9	187.3
50°	6342.7	5749.7	3824.1	1397.7	325.7	211.7	200.8	177.8	169.6	166.9	169.6
52.5°	6535.4	5831.1	3834.9	1160.3	218.5	206.3	185.9	161.5	152.0	150.6	152.0
55°	6699.6	5998.0	3746.7	864.4	195.4	194.1	172.3	145.2	134.3	139.8	142.5
57.5°	6740.3	6014.3	3570.3	571.3	194.1	177.8	157.4	130.3	122.1	127.6	128.9
60°	6843.4	5947.8	3350.5	351.5	190.0	158.8	139.8	115.3	109.9	111.3	114.0
62.5°	6755.2	5911.2	2974.6	245.6	175.1	145.2	130.3	105.8	96.3	95.0	95.0
65°	6665.7	5695.4	2274.4	203.6	156.1	135.7	118.1	93.6	82.8	77.4	77.4
67.5°	6380.7	5212.3	1298.7	188.6	141.1	124.8	107.2	85.5	71.9	65.1	62.4
70°	5662.8	4175.5	400.3	172.3	142.5	116.7	99.1	74.6	62.4	52.9	51.6
72.5°	4434.7	2610.9	187.3	152.0	146.6	108.6	92.3	69.2	55.6	44.8	43.4
75°	2609.5	625.6	153.3	112.6	124.8	115.3	90.9	66.5	48.9	36.6	35.3
77.5°	567.2	152.0	137.1	76.0	93.6	111.3	86.8	58.4	43.4	28.5	27.1
80°	137.1	119.4	124.8	58.4	62.4	77.4	70.6	50.2	39.4	23.1	21.7
82.5°	92.3	89.6	109.9	36.6	31.2	28.5	29.9	31.2	32.6	17.6	16.3
85°	61.1	77.4	58.4	20.4	17.6	14.9	14.9	13.6	19.0	10.9	10.9
87.5°	9.5	8.1	9.5	8.1	8.1	6.8	5.4	5.4	4.1	5.4	5.4
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)