

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: P509422

Luminaire Tested: **VERD-CA2-90-750-U-T3-HSS**

Issue Date: 3/4/2021

Test Information

Test Method: LM-79-08
Report Number: P509422
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-CA2-90-750-U-T3-HSS
Description: VERDEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 5000K, 1250mA LEDS AND TYPE III OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12355 lumens
Efficiency: N/A
Efficacy: 131.2 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

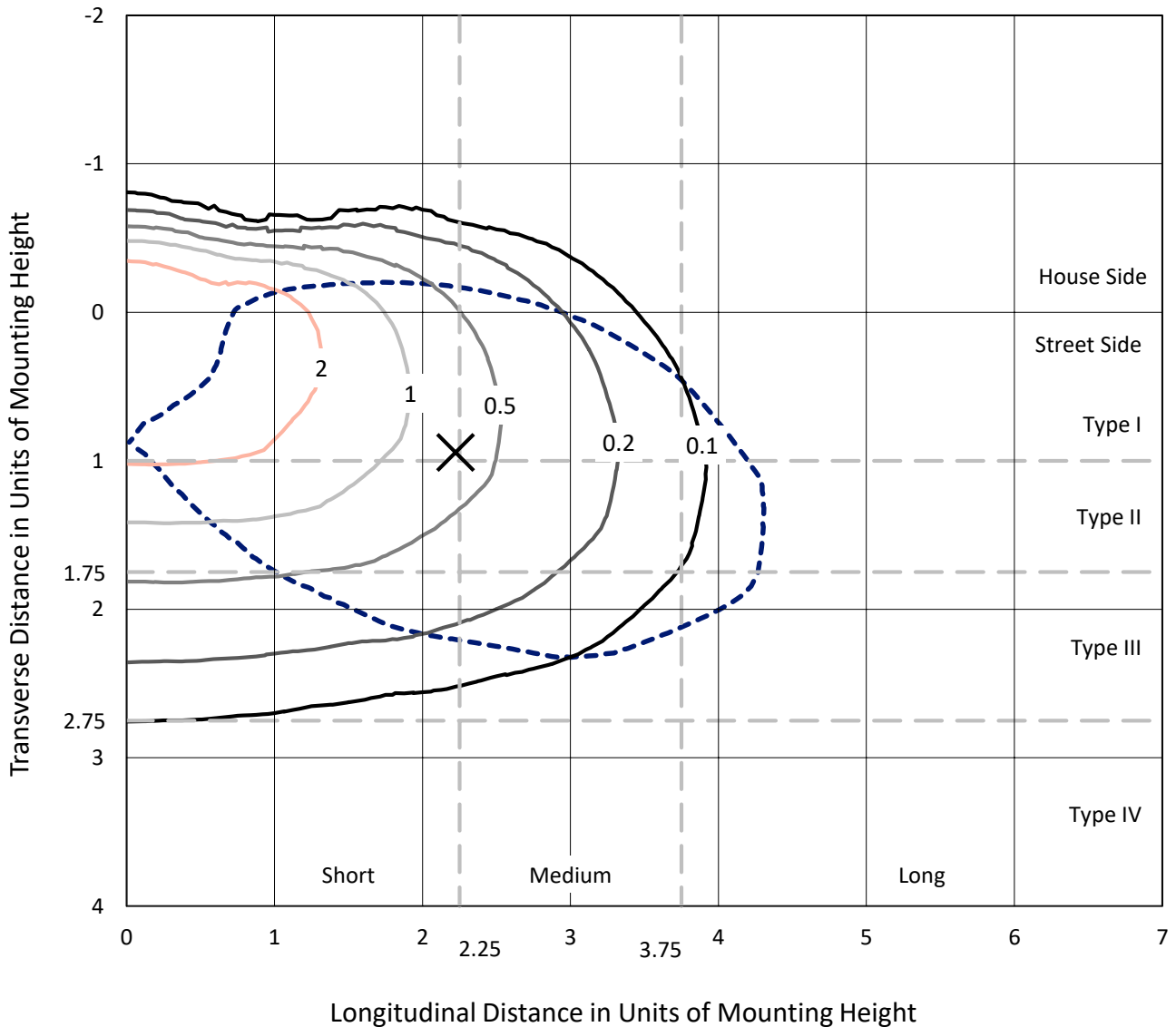
Input Watts (W): 94.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

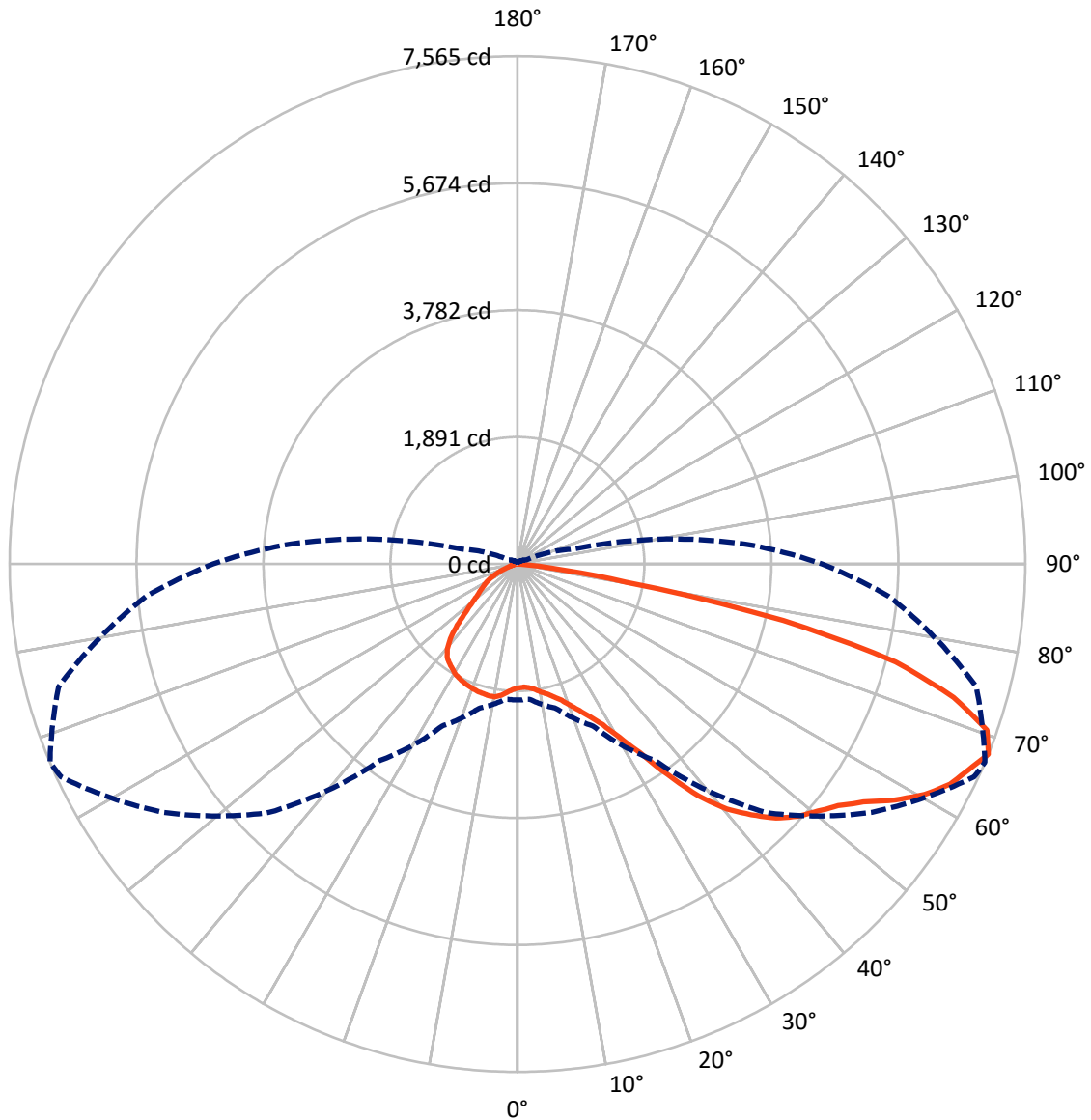
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.6 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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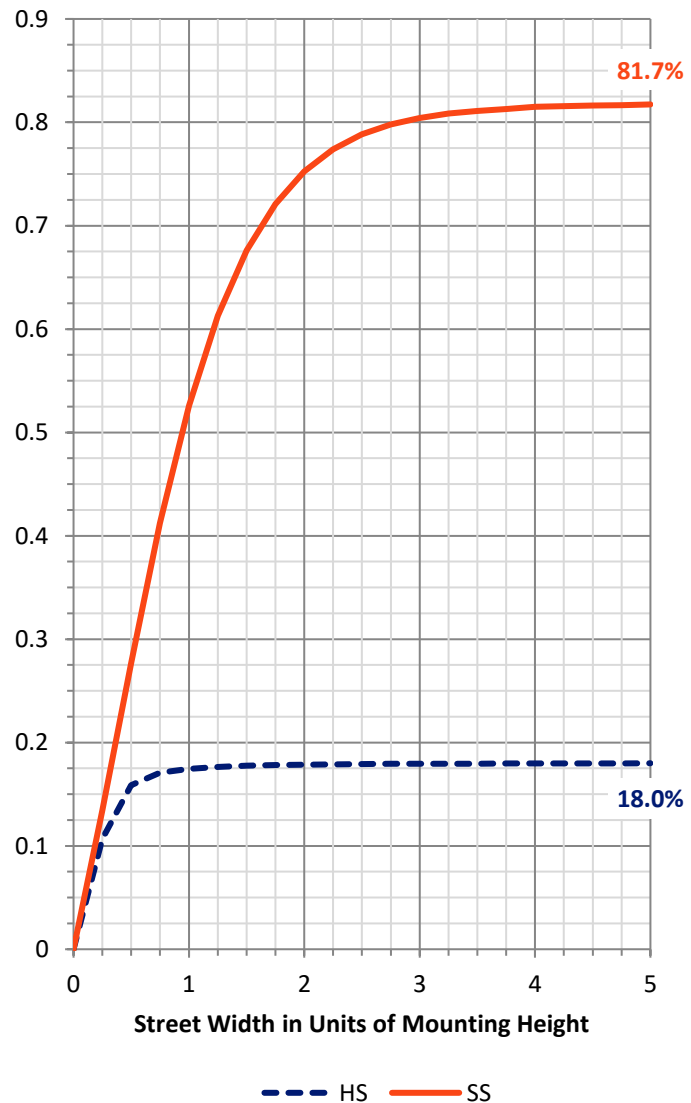
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2251.2	0.0	2251.2
	% Fixture	18.2	0.0	18.2
Street Side	Lumens	10103.8	0.0	10103.8
	% Fixture	81.8	0.0	81.8
Total	Lumens	12355.0	0.0	12355.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	184.8	1.5
10°-20°	578.8	4.7
20°-30°	987.7	8.0
30°-40°	1537.4	12.4
40°-50°	2170.3	17.6
50°-60°	2613.9	21.2
60°-70°	2701.3	21.9
70°-80°	1488.1	12.0
80°-90°	92.8	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°	12355.0	100.0
0°-180°	12355.0	100.0



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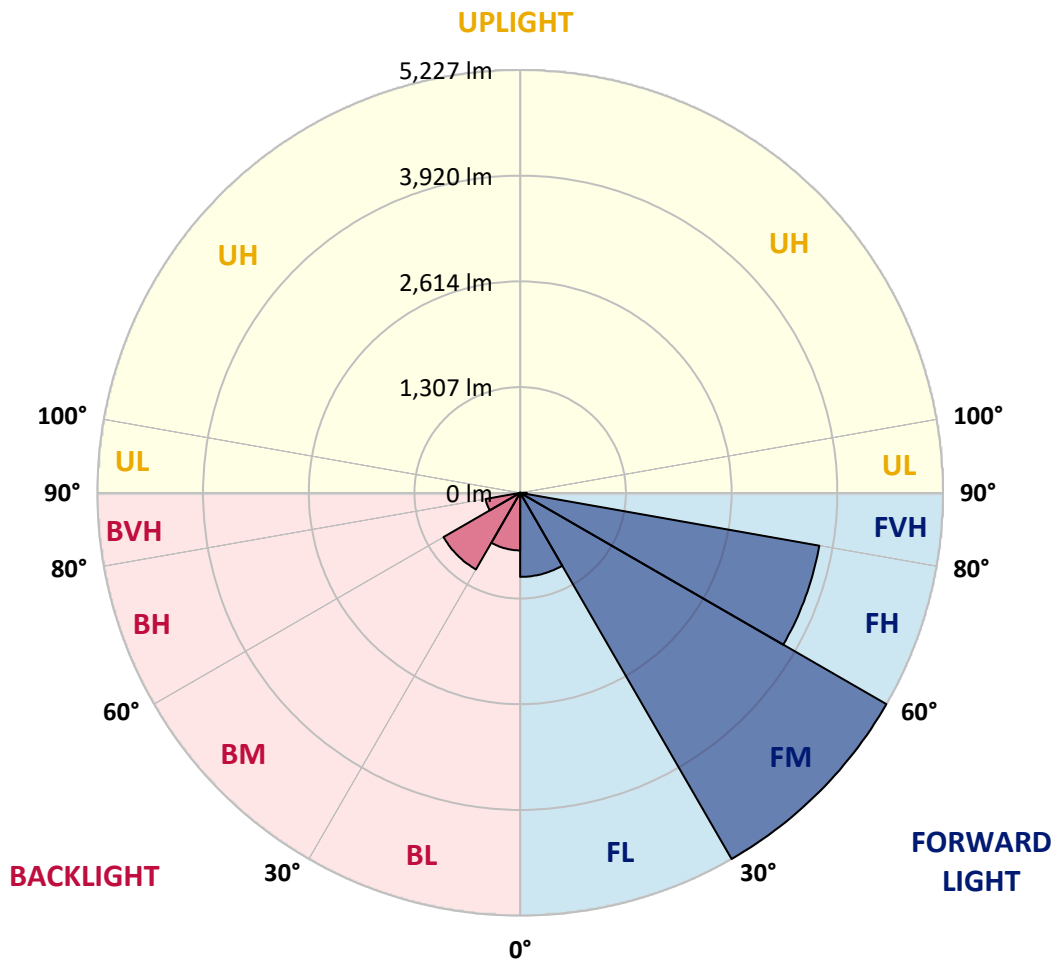
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1039.6	8.4			
FM (30°-60°)	5227.2	42.3			
FH (60°-80°)	3755.5	30.4			G2/5000
FVH (80°-90°)	81.6	0.7			G1/100
BL (0°-30°)	711.8	5.8	B2/1000		
BM (30°-60°)	1094.3	8.9	B2/2500		
BH (60°-80°)	433.9	3.5	B1/500		G1/500
BVH (80°-90°)	11.2	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°	1844.7	1844.7	1844.7	1844.7	1844.7	1844.7	1844.7	1844.7	1844.7	1844.7	1844.7
2.5°	1827.6	1846.2	1846.2	1840.5	1843.3	1830.4	1821.9	1831.9	1834.7	1843.3	1854.8
5°	1863.3	1884.8	1883.4	1873.3	1864.8	1853.3	1841.9	1850.5	1851.9	1854.8	1869.1
7.5°	1939.1	1959.1	1950.6	1940.6	1936.3	1910.5	1886.2	1884.8	1887.6	1896.2	1912.0
10°	2037.8	2053.5	2050.7	2034.9	2023.5	1984.9	1950.6	1937.7	1939.1	1942.0	1969.2
12.5°	2149.3	2170.8	2155.1	2133.6	2113.6	2057.8	2010.6	1992.0	1989.2	1996.3	2019.2
15°	2259.5	2282.3	2270.9	2258.0	2212.3	2150.8	2090.7	2060.7	2057.8	2057.8	2072.1
17.5°	2403.9	2412.5	2405.3	2386.7	2335.2	2258.0	2186.5	2142.2	2135.0	2139.3	2142.2
20°	2564.0	2579.8	2571.2	2551.2	2476.8	2393.9	2303.8	2250.9	2246.6	2250.9	2223.7
22.5°	2758.5	2764.3	2760.0	2727.1	2659.9	2549.7	2431.1	2371.0	2371.0	2375.3	2319.5
25°	2924.4	2958.7	2948.7	2908.7	2830.0	2734.2	2591.2	2516.9	2521.1	2524.0	2446.8
27.5°	3117.5	3146.1	3138.9	3108.9	3057.4	2935.9	2764.3	2715.6	2711.3	2707.1	2586.9
30°	3301.9	3323.4	3337.7	3330.5	3289.1	3174.7	3021.7	2985.9	2997.3	2988.8	2781.4
32.5°	3452.1	3489.3	3529.3	3537.9	3526.5	3424.9	3313.4	3332.0	3346.3	3447.8	3323.4
35°	3580.8	3620.8	3686.6	3755.3	3768.1	3728.1	3672.3	3808.2	3849.6	4057.0	3925.4
37.5°	3715.2	3749.5	3815.3	3924.0	3995.5	4017.0	4071.3	4285.8	4385.9	4564.7	4320.1
40°	3776.7	3811.0	3925.4	4062.7	4211.4	4331.6	4440.3	4689.1	4800.6	4855.0	4537.5
42.5°	3715.2	3748.1	3932.6	4191.4	4393.1	4659.0	4782.0	5030.9	5105.2	5099.5	4804.9
45°	3655.2	3686.6	3879.7	4224.3	4557.5	4960.8	5065.2	5344.0	5398.4	5329.7	4959.4
47.5°	3577.9	3620.8	3821.0	4204.3	4704.8	5233.9	5329.7	5567.1	5615.7	5514.2	5136.7
50°	3483.6	3520.7	3753.8	4172.8	4802.0	5438.4	5539.9	5775.9	5788.8	5694.4	5296.8
52.5°	3374.9	3394.9	3648.0	4109.9	4886.4	5588.6	5704.4	5951.8	5981.8	5956.1	5487.0
55°	3213.3	3249.0	3520.7	4011.2	4892.1	5667.2	5831.7	6200.6	6255.0	6194.9	5602.9
57.5°	3043.1	3081.7	3363.4	3874.0	4807.8	5717.3	6063.3	6523.8	6631.1	6438.0	5697.2
60°	2855.8	2890.1	3167.5	3670.9	4657.6	5788.8	6302.2	6902.8	6970.0	6645.4	5760.2
62.5°	2638.4	2665.6	2930.1	3424.9	4427.4	5770.2	6508.1	7207.4	7228.8	6831.3	5754.5
65°	2373.9	2372.4	2618.4	3081.7	4049.9	5621.5	6545.3	7360.4	7386.1	6951.4	5703.0
67.5°	2024.9	2020.6	2226.6	2662.7	3573.7	5233.9	6446.6	7503.4	7564.9	7077.2	5552.8
70°	1587.3	1593.1	1748.9	2137.9	2900.1	4643.3	6186.3	7407.6	7420.4	6835.6	5163.8
72.5°	1122.6	1119.7	1225.5	1488.7	2143.6	3625.1	5437.0	6754.0	6794.1	6237.8	4498.9
75°	514.8	536.3	800.8	909.5	1294.2	2468.2	4473.1	5738.7	5815.9	5369.8	3507.9
77.5°	95.8	98.7	171.6	346.1	506.2	890.9	2672.7	3886.8	4048.4	3659.5	1976.3
80°	75.8	77.2	101.5	165.9	211.6	400.4	879.5	1601.6	1637.4	1427.2	712.2
82.5°	55.8	57.2	75.8	107.3	98.7	173.0	366.1	466.2	494.8	460.5	283.1
85°	32.9	34.3	44.3	52.9	51.5	68.6	61.5	55.8	50.1	41.5	35.8
87.5°	8.6	11.4	18.6	18.6	14.3	12.9	11.4	10.0	11.4	10.0	10.0
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°	1844.7	1844.7	1844.7	1844.7	1844.7	1844.7	1844.7	1844.7	1844.7	1844.7	1844.7
2.5°	1857.6	1856.2	1860.5	1871.9	1881.9	1883.4	1897.7	1916.2	1907.7	1932.0	1923.4
5°	1877.6	1881.9	1897.7	1916.2	1933.4	1947.7	1969.2	2000.6	1990.6	2013.5	2004.9
7.5°	1923.4	1930.5	1954.9	1973.4	1993.5	1989.2	2007.8	2026.4	2003.5	2027.8	2016.3
10°	1977.7	1986.3	2000.6	2007.8	2002.0	1999.2	1994.9	1992.0	1962.0	1979.2	1972.0
12.5°	2026.4	2027.8	2023.5	2004.9	1992.0	1957.7	1942.0	1934.8	1889.1	1901.9	1893.4
15°	2073.5	2053.5	2032.1	1989.2	1953.4	1900.5	1866.2	1836.2	1793.3	1810.4	1793.3
17.5°	2125.0	2095.0	2039.2	1976.3	1903.4	1826.2	1770.4	1721.8	1657.4	1654.5	1648.8
20°	2190.8	2146.5	2056.4	1953.4	1849.0	1733.2	1644.5	1563.0	1465.8	1452.9	1427.2
22.5°	2273.8	2208.0	2082.1	1923.4	1781.8	1636.0	1485.8	1351.4	1228.4	1189.8	1175.5
25°	2369.6	2288.1	2096.4	1896.2	1717.5	1494.4	1289.9	1115.4	971.0	929.5	918.1
27.5°	2489.7	2389.6	2117.9	1856.2	1614.5	1321.4	1055.4	862.3	733.6	666.4	656.4
30°	2655.6	2502.6	2147.9	1816.1	1490.1	1118.3	818.0	593.5	471.9	431.9	424.7
32.5°	3107.5	2771.4	2180.8	1744.6	1325.6	892.3	543.4	379.0	297.4	264.6	261.7
35°	3680.9	3263.3	2300.9	1663.1	1126.9	619.2	337.5	225.9	181.6	168.7	168.7
37.5°	4051.3	3645.2	2501.1	1548.7	865.2	379.0	203.1	147.3	138.7	137.3	137.3
40°	4245.8	3813.9	2645.6	1391.4	579.2	220.2	143.0	127.3	124.4	121.6	121.6
42.5°	4493.2	3958.3	2770.0	1178.3	336.1	154.4	125.8	115.8	111.5	108.7	108.7
45°	4630.4	4115.6	2691.3	925.2	191.6	138.7	115.8	104.4	100.1	100.1	100.1
47.5°	4764.9	4265.8	2591.2	665.0	163.0	127.3	108.7	97.2	93.0	95.8	95.8
50°	4917.9	4367.3	2432.5	497.7	154.4	118.7	98.7	88.7	85.8	90.1	90.1
52.5°	5060.9	4377.3	2177.9	397.5	143.0	110.1	91.5	81.5	78.7	81.5	81.5
55°	5102.4	4345.9	2105.0	316.0	135.9	101.5	85.8	75.8	68.6	68.6	67.2
57.5°	5092.3	4284.4	1927.7	267.4	127.3	93.0	78.7	67.2	58.6	55.8	55.8
60°	5058.0	4198.6	1740.3	233.1	118.7	85.8	70.1	57.2	48.6	45.8	45.8
62.5°	5015.1	4037.0	1475.8	203.1	110.1	82.9	58.6	47.2	41.5	38.6	38.6
65°	4834.9	3785.3	1181.2	173.0	101.5	72.9	51.5	41.5	35.8	32.9	32.9
67.5°	4536.1	3402.0	853.7	147.3	94.4	61.5	45.8	35.8	30.0	28.6	27.2
70°	4089.9	2872.9	529.1	127.3	81.5	55.8	40.0	31.5	27.2	22.9	22.9
72.5°	3409.2	2249.4	277.4	100.1	64.4	47.2	35.8	28.6	22.9	20.0	18.6
75°	2396.7	1387.1	200.2	77.2	44.3	38.6	30.0	24.3	20.0	17.2	15.7
77.5°	1156.9	477.6	140.1	57.2	31.5	28.6	22.9	20.0	15.7	14.3	14.3
80°	423.3	271.7	100.1	41.5	25.7	22.9	17.2	15.7	12.9	11.4	11.4
82.5°	190.2	128.7	57.2	27.2	18.6	17.2	12.9	10.0	10.0	10.0	10.0
85°	31.5	27.2	18.6	12.9	10.0	8.6	8.6	7.2	7.2	7.2	7.2
87.5°	8.6	8.6	7.2	7.2	5.7	4.3	2.9	2.9	2.9	4.3	4.3
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)