

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: P799251

Luminaire Tested: **ARCH2-100-730-U-T2R**

Issue Date: 4/4/2024

Test Information

Test Method: LM-79-08
Report Number: P799251
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2403-329-1)
Test Lab: INNOVATION CENTER
Issue Date: 4/4/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH2-100-730-U-T2R
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 760mA LIGHTSQUARES WITH 10 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12707 lumens
Efficiency: N/A
Efficacy: 123.0 lumens/watt
Luminous Opening: Rectangular (W 0.67' x L: 0.33' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G2

Input Watts (W): 103.3
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

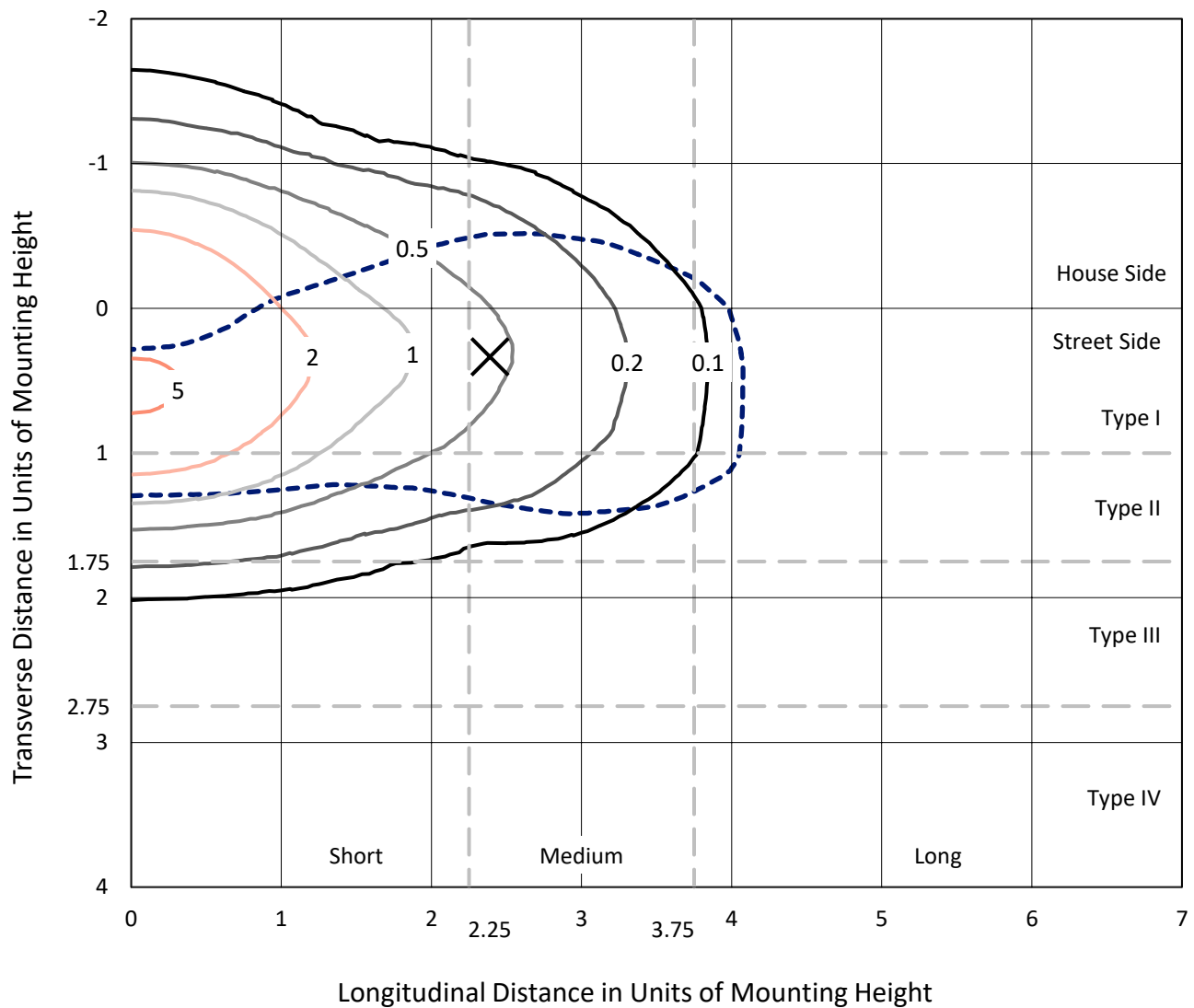


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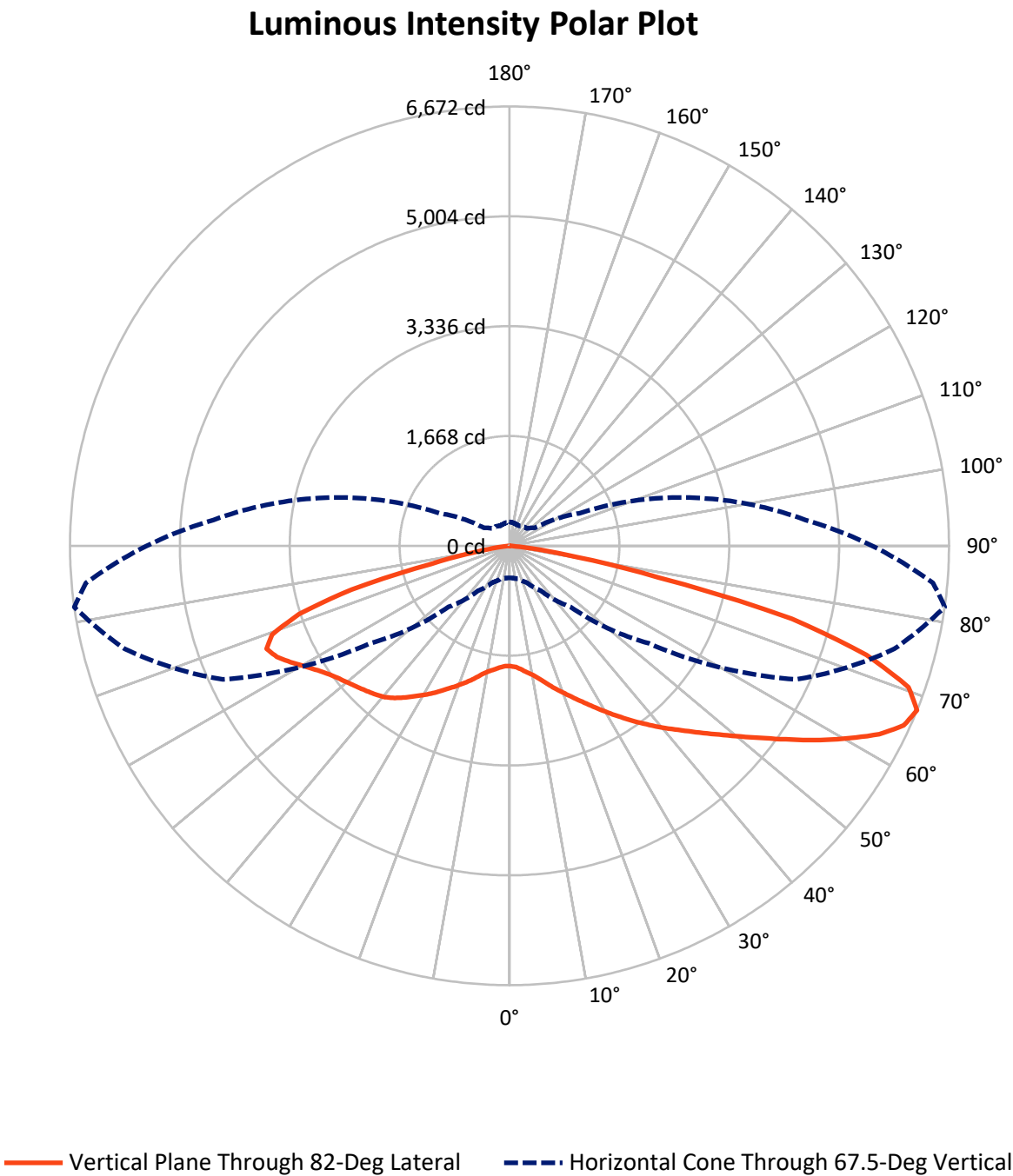
Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.6 fc
Type II - Medium - N/A

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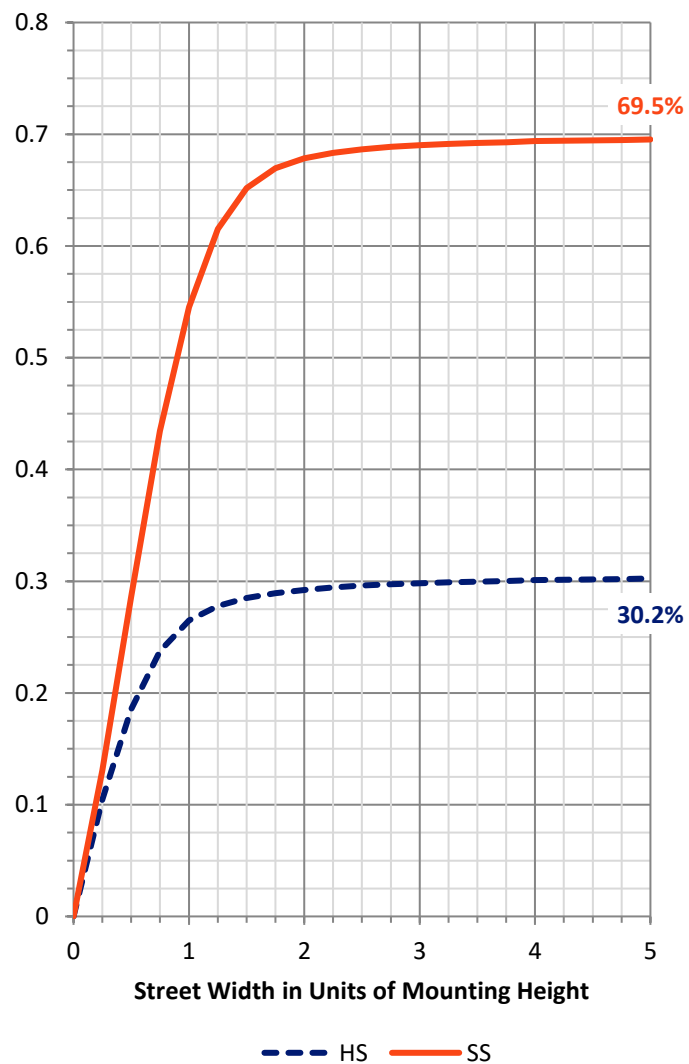
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3869.8	0.0	3869.8
	% Fixture	30.5	0.0	30.5
Street Side	Lumens	8837.2	0.0	8837.2
	% Fixture	69.5	0.0	69.5
Total	Lumens	12707.0	0.0	12707.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	188.8	1.5
10°-20°	680.0	5.4
20°-30°	1366.6	10.8
30°-40°	2146.7	16.9
40°-50°	2615.1	20.6
50°-60°	2471.0	19.4
60°-70°	2040.4	16.1
70°-80°	1111.1	8.7
80°-90°	87.4	0.7
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°	12707.0	100.0
0°-180°	12707.0	100.0

Coefficient of Utilization



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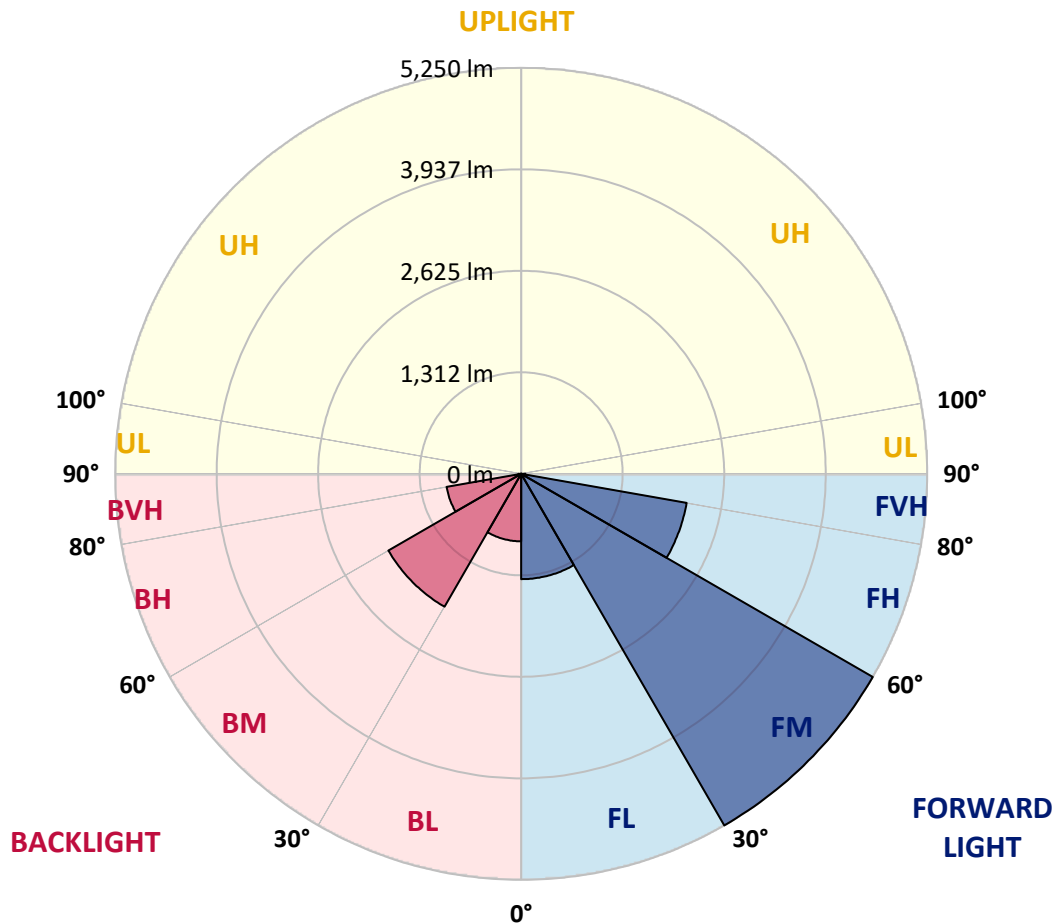
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1362.7	10.7			
FM	(30°-60°)	5249.8	41.3			
FH	(60°-80°)	2172.1	17.1			G2/5000
FVH	(80°-90°)	52.7	0.4			G1/100
BL	(0°-30°)	872.7	6.9	B2/1000		
BM	(30°-60°)	1983.0	15.6	B2/2500		
BH	(60°-80°)	979.5	7.7	B2/1000		G2/1000
BVH	(80°-90°)	34.7	0.3			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 II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°	85°
0°	1826.6	1826.6	1826.6	1826.6	1826.6	1826.6	1826.6	1826.6	1826.6	1826.6	1826.6
2.5°	1909.7	1909.7	1924.4	1924.4	1911.5	1891.2	1885.7	1863.5	1843.2	1843.2	1845.1
5°	2092.3	2090.5	2101.5	2086.8	2055.4	2014.8	1987.1	1939.2	1898.6	1885.7	1883.8
7.5°	2315.6	2313.7	2319.3	2295.3	2236.2	2169.8	2114.5	2037.0	1970.5	1942.9	1935.5
10°	2564.7	2562.8	2557.3	2516.7	2437.3	2334.0	2251.0	2144.0	2044.3	2000.1	1990.8
12.5°	2850.6	2847.0	2834.0	2775.0	2666.1	2533.3	2413.4	2275.0	2142.1	2081.2	2060.9
15°	3169.8	3164.3	3140.3	3068.4	2922.6	2754.7	2599.7	2422.6	2260.2	2180.9	2153.2
17.5°	3505.6	3505.6	3468.7	3361.7	3199.4	2990.9	2799.0	2573.9	2383.8	2286.0	2252.8
20°	3847.0	3845.1	3799.0	3669.9	3478.0	3238.1	2994.6	2747.3	2511.1	2393.1	2352.5
22.5°	4206.8	4203.1	4145.9	3998.3	3769.5	3498.3	3214.1	2918.9	2651.4	2509.3	2457.6
25°	4620.1	4614.5	4544.4	4363.6	4092.4	3786.1	3461.4	3120.0	2811.9	2638.5	2577.6
27.5°	5059.2	5051.8	4968.8	4758.4	4461.4	4092.4	3734.4	3352.5	2989.0	2782.4	2714.1
30°	5450.4	5444.8	5354.4	5138.5	4797.2	4396.8	3994.6	3585.0	3175.4	2935.5	2850.6
32.5°	5745.6	5745.6	5664.4	5452.2	5097.9	4688.3	4256.6	3804.5	3369.1	3099.7	3000.1
35°	5924.5	5930.1	5860.0	5690.2	5356.3	4963.3	4527.8	4062.9	3575.8	3275.0	3168.0
37.5°	5950.4	5968.8	5928.2	5813.8	5535.2	5192.0	4793.5	4311.9	3789.8	3452.1	3332.2
40°	5830.4	5843.4	5845.2	5800.9	5609.0	5356.3	5027.8	4575.8	4016.7	3638.5	3500.1
42.5°	5590.6	5599.8	5616.4	5629.3	5555.5	5428.2	5206.8	4821.2	4258.4	3828.5	3666.2
45°	5280.6	5278.8	5306.4	5361.8	5358.1	5387.6	5306.4	5044.4	4509.4	4044.4	3850.7
47.5°	4817.5	4808.3	4906.1	5031.5	5094.3	5232.6	5308.3	5219.7	4782.4	4282.4	4061.0
50°	4092.4	4083.2	4297.2	4592.4	4776.9	4987.2	5206.8	5324.9	5068.4	4550.0	4289.8
52.5°	3210.4	3201.2	3472.4	3989.1	4391.3	4697.6	5002.0	5348.9	5339.6	4848.9	4548.1
55°	2387.5	2380.1	2644.0	3203.1	3854.4	4361.8	4751.1	5286.1	5594.3	5192.0	4861.8
57.5°	1682.7	1679.0	1907.8	2370.9	3164.3	3952.2	4509.4	5164.4	5828.6	5564.7	5216.0
60°	1180.8	1175.3	1341.4	1699.3	2393.1	3334.1	4269.5	5002.0	6003.9	5931.9	5592.4
62.5°	795.2	791.5	909.6	1208.5	1699.3	2566.5	3906.0	4893.1	6103.5	6300.9	5972.5
65°	603.3	601.5	655.0	819.2	1203.0	1843.2	3328.5	4880.2	6116.4	6577.7	6295.4
67.5°	487.1	488.9	518.5	612.6	832.1	1310.0	2581.3	4799.0	6048.2	6671.8	6452.2
70°	398.5	398.5	411.5	474.2	614.4	883.8	1802.6	4430.0	5858.1	6426.4	6265.9
72.5°	304.4	306.3	346.9	383.8	463.1	619.9	1155.0	3666.2	5409.8	5666.2	5544.5
75°	241.7	239.9	263.8	315.5	359.8	442.8	708.5	2629.2	4603.5	4428.2	4350.7
77.5°	173.4	171.6	190.0	234.3	273.1	313.7	422.5	1326.6	2503.8	2300.8	2243.6
80°	118.1	114.4	131.0	162.4	180.8	184.5	206.6	509.2	1092.3	1029.6	1016.6
82.5°	60.9	60.9	70.1	92.3	94.1	95.9	92.3	164.2	361.6	337.6	322.9
85°	24.0	24.0	25.8	31.4	31.4	33.2	33.2	42.4	38.7	36.9	35.1
87.5°	1.8	1.8	3.7	3.7	5.5	5.5	5.5	7.4	9.2	9.2	9.2
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°	1826.6	1826.6	1826.6	1826.6	1826.6	1826.6	1826.6	1826.6	1826.6	1826.6	1826.6
2.5°	1841.4	1834.0	1810.0	1804.5	1800.8	1795.3	1797.1	1784.2	1778.7	1780.5	1773.1
5°	1874.6	1861.7	1832.2	1819.2	1815.6	1810.0	1815.6	1806.3	1797.1	1800.8	1797.1
7.5°	1920.7	1902.3	1865.4	1852.5	1850.6	1845.1	1852.5	1845.1	1837.7	1841.4	1834.0
10°	1968.7	1944.7	1904.1	1891.2	1891.2	1889.4	1896.7	1885.7	1878.3	1880.1	1876.4
12.5°	2038.8	2007.4	1963.2	1952.1	1946.6	1952.1	1953.9	1939.2	1926.3	1928.1	1922.6
15°	2123.7	2088.6	2040.7	2024.0	2020.4	2018.5	2011.1	1992.7	1976.1	1974.2	1968.7
17.5°	2215.9	2171.7	2114.5	2097.9	2081.2	2075.7	2057.3	2033.3	2007.4	2007.4	2000.1
20°	2304.5	2254.7	2186.4	2162.4	2138.4	2116.3	2084.9	2046.2	2013.0	2007.4	2000.1
22.5°	2400.4	2341.4	2262.1	2227.0	2184.6	2140.3	2086.8	2035.1	1992.7	1983.5	1977.9
25°	2507.5	2433.7	2339.6	2287.9	2219.6	2151.4	2072.0	2005.6	1955.8	1941.0	1937.3
27.5°	2625.5	2537.0	2422.6	2346.9	2247.3	2140.3	2038.8	1959.5	1898.6	1880.1	1874.6
30°	2745.5	2640.3	2498.2	2387.5	2247.3	2105.2	1977.9	1885.7	1815.6	1789.7	1786.0
32.5°	2865.4	2747.3	2566.5	2409.7	2225.2	2046.2	1898.6	1789.7	1710.4	1679.0	1686.4
35°	3009.3	2865.4	2629.2	2418.9	2188.3	1974.2	1808.2	1680.9	1599.7	1572.0	1577.5
37.5°	3158.8	2983.5	2679.0	2411.5	2136.6	1893.0	1706.7	1583.1	1481.6	1433.6	1439.2
40°	3287.9	3090.5	2714.1	2385.7	2070.2	1800.8	1607.1	1444.7	1304.5	1258.3	1252.8
42.5°	3409.7	3169.8	2732.6	2346.9	1994.5	1693.8	1465.0	1256.5	1116.3	1059.1	1060.9
45°	3537.0	3247.3	2725.2	2295.3	1900.4	1568.3	1282.3	1072.0	948.4	896.7	898.6
47.5°	3682.8	3330.4	2717.8	2239.9	1786.0	1405.9	1107.0	909.6	802.6	765.7	762.0
50°	3837.8	3422.6	2708.6	2171.7	1658.7	1225.1	933.6	758.3	667.9	643.9	638.4
52.5°	4013.0	3522.2	2703.0	2090.5	1505.6	1033.2	778.6	625.5	564.6	548.0	546.1
55°	4223.4	3638.5	2710.4	1992.7	1321.1	852.4	647.6	538.8	498.2	488.9	487.1
57.5°	4479.8	3787.9	2732.6	1878.3	1127.3	695.6	551.7	485.3	459.4	452.0	452.0
60°	4758.4	3957.7	2773.1	1749.1	933.6	573.8	488.9	442.8	431.7	441.0	441.0
62.5°	5059.2	4157.0	2845.1	1592.3	752.8	485.3	439.1	407.8	400.4	418.8	420.7
65°	5337.8	4350.7	2891.2	1404.1	597.8	420.7	400.4	372.7	376.4	394.8	393.0
67.5°	5509.4	4511.2	2826.7	1167.9	474.2	372.7	359.8	335.8	345.0	359.8	361.6
70°	5404.2	4420.8	2507.5	881.9	370.9	324.7	315.5	300.7	308.1	326.6	334.0
72.5°	4889.4	3959.5	1950.2	596.0	298.9	273.1	276.8	269.4	278.6	295.2	311.8
75°	3968.8	2992.7	1308.2	381.9	236.2	232.5	238.0	232.5	236.2	252.8	262.0
77.5°	2072.0	1459.5	651.3	238.0	175.3	180.8	190.0	191.9	203.0	206.6	210.3
80°	966.8	656.8	271.2	132.8	116.2	127.3	145.8	147.6	151.3	156.8	158.7
82.5°	315.5	197.4	125.5	72.0	66.4	72.0	94.1	112.5	114.4	125.5	125.5
85°	33.2	20.3	27.7	29.5	25.8	31.4	42.4	40.6	18.5	11.1	11.1
87.5°	9.2	7.4	9.2	9.2	7.4	7.4	5.5	1.8	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)