

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: P799363

Luminaire Tested: **ARCH2-110-727-U-T2R**

Issue Date: 4/4/2024

Test Information

Test Method: LM-79-08
Report Number: P799363
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: ARCH2-110-727-U-T2R
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 10 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12703 lumens
Efficiency: N/A
Efficacy: 116.0 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): 109.5
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



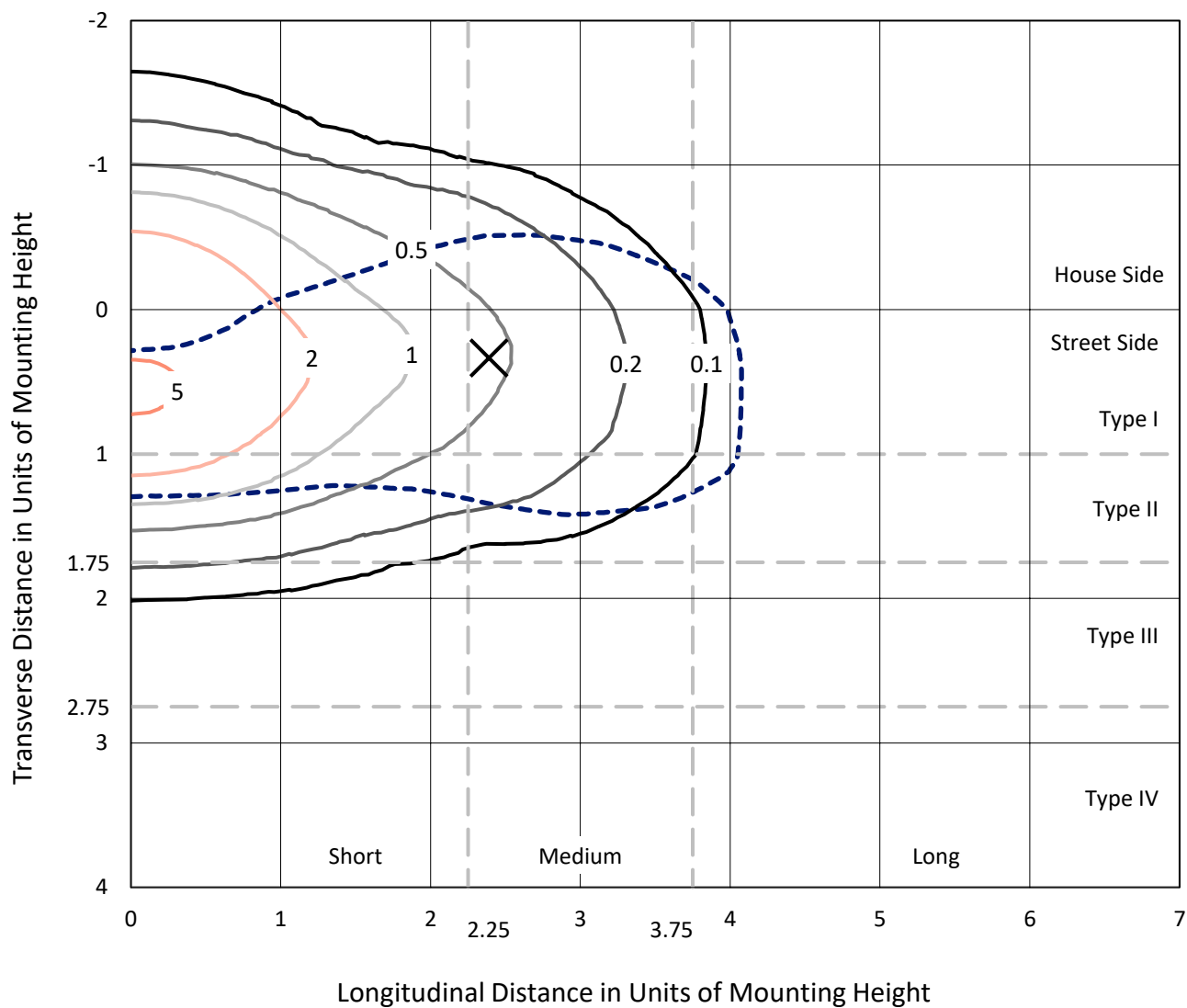
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Iso-Footcandle Lines of Horizontal Illumination

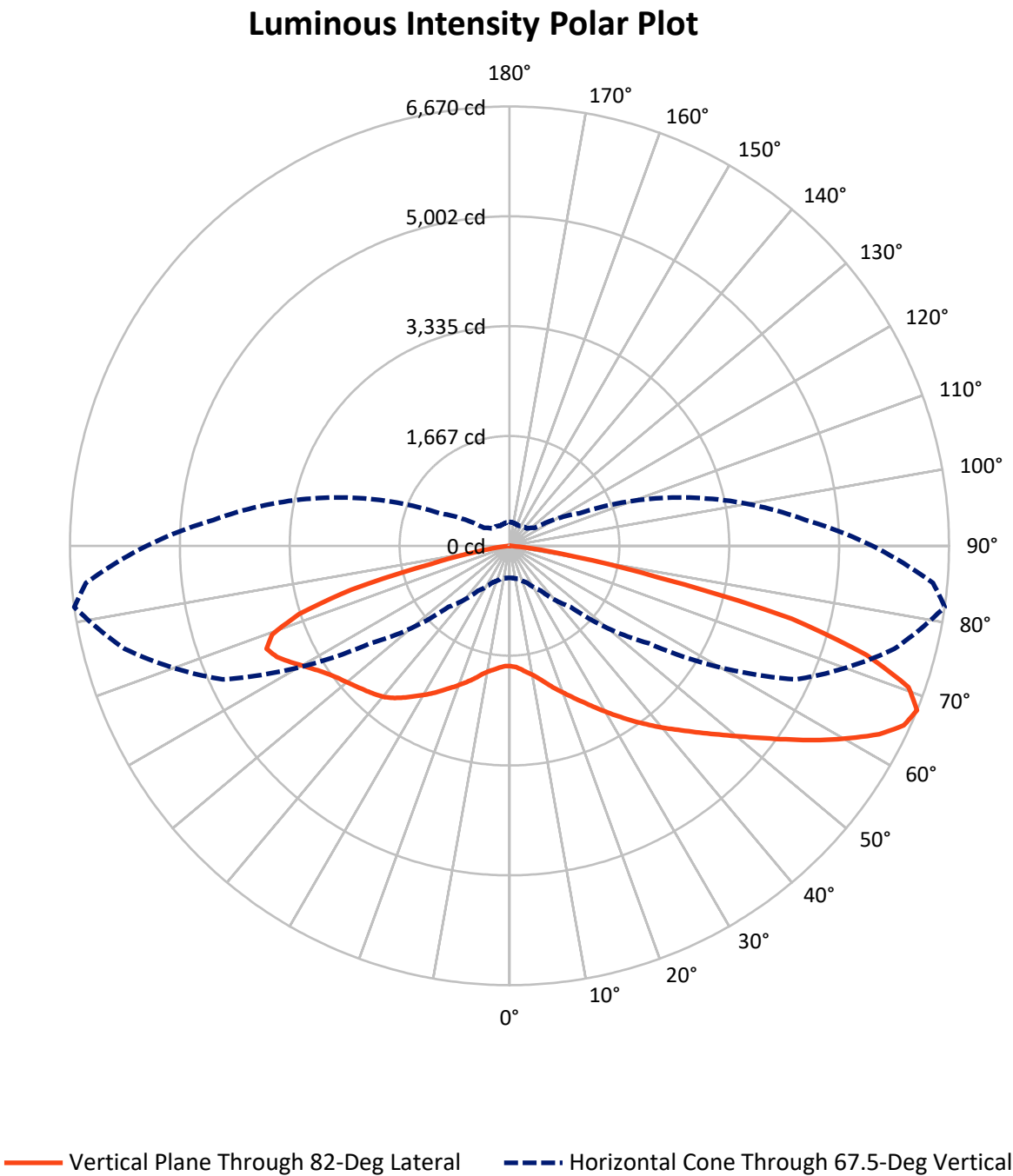
✕ Max cd

--- 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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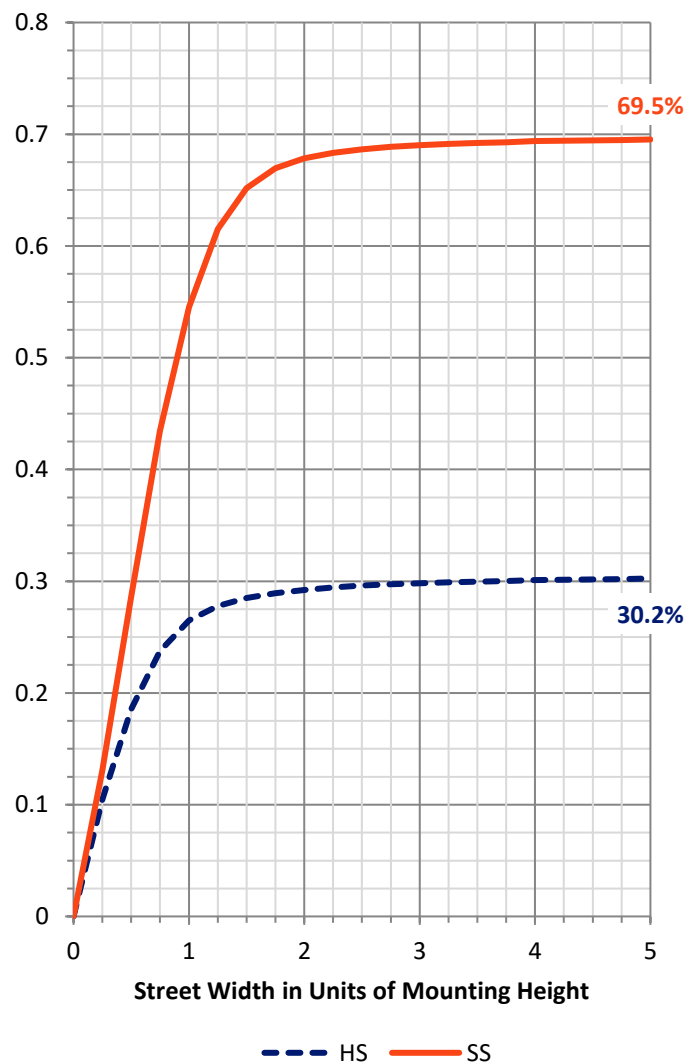
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3868.6	0.0	3868.6
	% Fixture	30.5	0.0	30.5
Street Side	Lumens	8834.4	0.0	8834.4
	% Fixture	69.5	0.0	69.5
Total	Lumens	12703.0	0.0	12703.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	188.7	1.5
10°-20°	679.8	5.4
20°-30°	1366.2	10.8
30°-40°	2146.0	16.9
40°-50°	2614.3	20.6
50°-60°	2470.2	19.4
60°-70°	2039.8	16.1
70°-80°	1110.8	8.7
80°-90°	87.3	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°	12703.0	100.0
0°-180°	12703.0	100.0

Coefficient of Utilization



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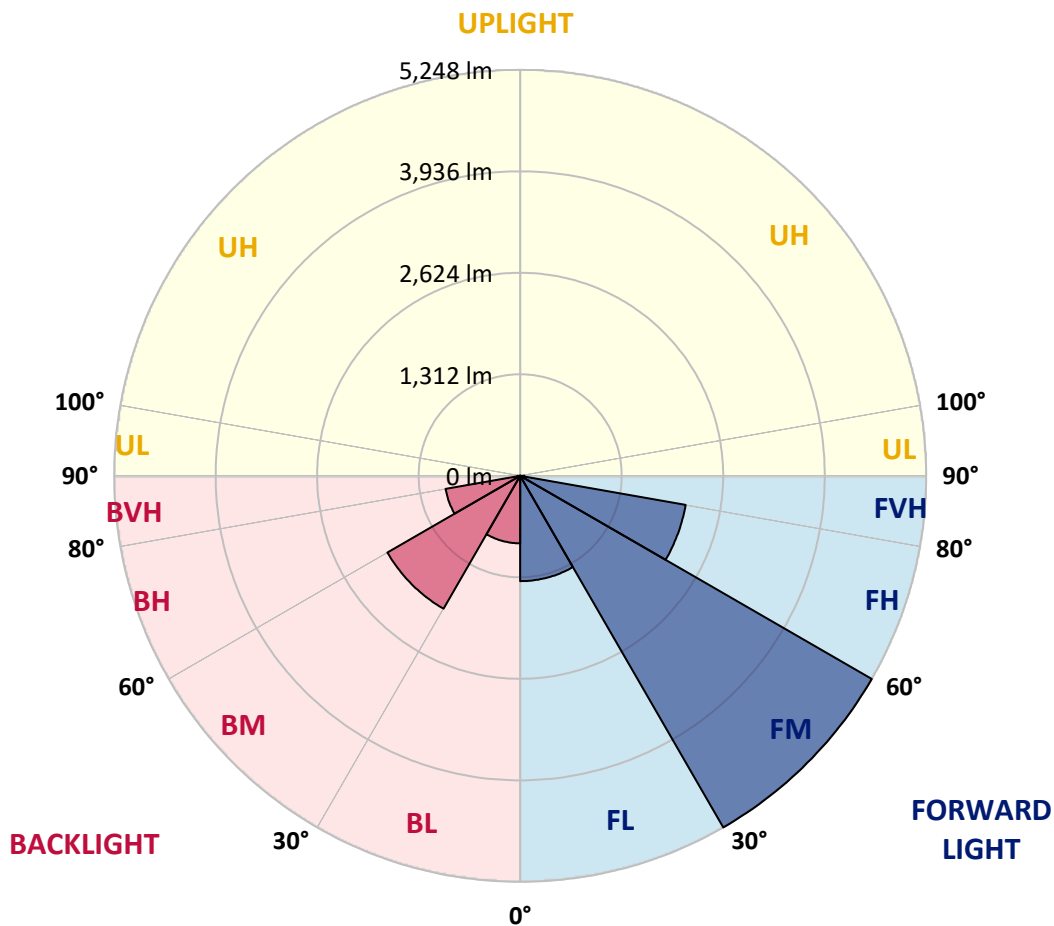
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1362.2	10.7			
FM	(30°-60°)	5248.1	41.3			
FH	(60°-80°)	2171.4	17.1			G2/5000
FVH	(80°-90°)	52.6	0.4			G1/100
BL	(0°-30°)	872.4	6.9	B2/1000		
BM	(30°-60°)	1982.3	15.6	B2/2500		
BH	(60°-80°)	979.2	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°	1826.0	1826.0	1826.0	1826.0	1826.0	1826.0	1826.0	1826.0	1826.0	1826.0	1826.0
2.5°	1909.1	1909.1	1923.8	1923.8	1910.9	1890.6	1885.1	1862.9	1842.7	1842.7	1844.5
5°	2091.7	2089.8	2100.9	2086.1	2054.8	2014.2	1986.5	1938.6	1898.0	1885.1	1883.2
7.5°	2314.8	2313.0	2318.5	2294.6	2235.5	2169.1	2113.8	2036.3	1969.9	1942.3	1934.9
10°	2563.8	2562.0	2556.5	2515.9	2436.6	2333.3	2250.3	2143.3	2043.7	1999.4	1990.2
12.5°	2849.7	2846.1	2833.1	2774.1	2665.3	2532.5	2412.6	2274.3	2141.5	2080.6	2060.3
15°	3168.8	3163.3	3139.3	3067.4	2921.7	2753.8	2598.9	2421.8	2259.5	2180.2	2152.5
17.5°	3504.5	3504.5	3467.6	3360.7	3198.4	2989.9	2798.1	2573.1	2383.1	2285.3	2252.1
20°	3845.8	3843.9	3797.8	3668.7	3476.9	3237.1	2993.6	2746.5	2510.4	2392.3	2351.7
22.5°	4205.4	4201.8	4144.6	3997.0	3768.3	3497.2	3213.1	2918.0	2650.5	2508.5	2456.9
25°	4618.6	4613.1	4543.0	4362.2	4091.1	3784.9	3460.3	3119.0	2811.0	2637.6	2576.8
27.5°	5057.6	5050.2	4967.2	4757.0	4460.0	4091.1	3733.3	3351.4	2988.1	2781.5	2713.3
30°	5448.6	5443.1	5352.7	5136.9	4795.7	4395.4	3993.3	3583.9	3174.4	2934.6	2849.7
32.5°	5743.8	5743.8	5662.6	5450.5	5096.3	4686.9	4255.2	3803.3	3368.0	3098.8	2999.1
35°	5922.7	5928.2	5858.1	5688.4	5354.6	4961.7	4526.4	4061.6	3574.6	3274.0	3167.0
37.5°	5948.5	5966.9	5926.4	5812.0	5533.5	5190.4	4792.0	4310.6	3788.6	3451.0	3331.2
40°	5828.6	5841.5	5843.4	5799.1	5607.3	5354.6	5026.2	4574.3	4015.5	3637.3	3499.0
42.5°	5588.8	5598.0	5614.6	5627.6	5553.8	5426.5	5205.2	4819.7	4257.1	3827.3	3665.0
45°	5278.9	5277.1	5304.8	5360.1	5356.4	5385.9	5304.8	5042.8	4507.9	4043.1	3849.5
47.5°	4816.0	4806.8	4904.5	5029.9	5092.6	5231.0	5306.6	5218.1	4780.9	4281.1	4059.7
50°	4091.1	4081.9	4295.8	4590.9	4775.4	4985.7	5205.2	5323.2	5066.8	4548.5	4288.5
52.5°	3209.4	3200.2	3471.3	3987.8	4389.9	4696.1	5000.4	5347.2	5338.0	4847.3	4546.7
55°	2386.8	2379.4	2643.2	3202.0	3853.1	4360.4	4749.6	5284.5	5592.5	5190.4	4860.2
57.5°	1682.2	1678.5	1907.2	2370.2	3163.3	3950.9	4507.9	5162.7	5826.8	5563.0	5214.4
60°	1180.5	1174.9	1340.9	1698.8	2392.3	3333.0	4268.2	5000.4	6002.0	5930.1	5590.7
62.5°	795.0	791.3	909.3	1208.1	1698.8	2565.7	3904.8	4891.6	6101.6	6298.9	5970.6
65°	603.1	601.3	654.8	819.0	1202.6	1842.7	3327.5	4878.7	6114.5	6575.6	6293.4
67.5°	486.9	488.8	518.3	612.4	831.9	1309.6	2580.4	4797.5	6046.3	6669.7	6450.2
70°	398.4	398.4	411.3	474.0	614.2	883.5	1802.1	4428.6	5856.3	6424.4	6263.9
72.5°	304.3	306.2	346.8	383.7	463.0	619.8	1154.7	3665.0	5408.1	5664.4	5542.7
75°	241.6	239.8	263.8	315.4	359.7	442.7	708.3	2628.4	4602.0	4426.8	4349.3
77.5°	173.4	171.5	190.0	234.3	273.0	313.6	422.4	1326.2	2503.0	2300.1	2242.9
80°	118.0	114.4	131.0	162.3	180.8	184.4	206.6	509.1	1091.9	1029.2	1016.3
82.5°	60.9	60.9	70.1	92.2	94.1	95.9	92.2	164.2	361.5	337.5	322.8
85°	24.0	24.0	25.8	31.4	31.4	33.2	33.2	42.4	38.7	36.9	35.0
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°	1826.0	1826.0	1826.0	1826.0	1826.0	1826.0	1826.0	1826.0	1826.0	1826.0	1826.0
2.5°	1840.8	1833.4	1809.4	1803.9	1800.2	1794.7	1796.5	1783.6	1778.1	1779.9	1772.6
5°	1874.0	1861.1	1831.6	1818.7	1815.0	1809.4	1815.0	1805.8	1796.5	1800.2	1796.5
7.5°	1920.1	1901.7	1864.8	1851.9	1850.0	1844.5	1851.9	1844.5	1837.1	1840.8	1833.4
10°	1968.1	1944.1	1903.5	1890.6	1890.6	1888.8	1896.1	1885.1	1877.7	1879.5	1875.9
12.5°	2038.2	2006.8	1962.5	1951.5	1945.9	1951.5	1953.3	1938.6	1925.7	1927.5	1922.0
15°	2123.0	2088.0	2040.0	2023.4	2019.7	2017.9	2010.5	1992.1	1975.5	1973.6	1968.1
17.5°	2215.2	2171.0	2113.8	2097.2	2080.6	2075.1	2056.6	2032.6	2006.8	2006.8	1999.4
20°	2303.8	2254.0	2185.7	2161.7	2137.8	2115.6	2084.3	2045.5	2012.3	2006.8	1999.4
22.5°	2399.7	2340.7	2261.4	2226.3	2183.9	2139.6	2086.1	2034.5	1992.1	1982.8	1977.3
25°	2506.7	2432.9	2338.8	2287.2	2218.9	2150.7	2071.4	2005.0	1955.2	1940.4	1936.7
27.5°	2624.7	2536.2	2421.8	2346.2	2246.6	2139.6	2038.2	1958.9	1898.0	1879.5	1874.0
30°	2744.6	2639.5	2497.4	2386.8	2246.6	2104.6	1977.3	1885.1	1815.0	1789.2	1785.5
32.5°	2864.5	2746.5	2565.7	2408.9	2224.5	2045.5	1898.0	1789.2	1709.8	1678.5	1685.9
35°	3008.4	2864.5	2628.4	2418.1	2187.6	1973.6	1807.6	1680.3	1599.2	1571.5	1577.0
37.5°	3157.8	2982.5	2678.2	2410.8	2135.9	1892.5	1706.2	1582.6	1481.1	1433.2	1438.7
40°	3286.9	3089.5	2713.3	2384.9	2069.5	1800.2	1606.6	1444.2	1304.1	1257.9	1252.4
42.5°	3408.6	3168.8	2731.7	2346.2	1993.9	1693.2	1464.5	1256.1	1115.9	1058.7	1060.6
45°	3535.9	3246.3	2724.3	2294.6	1899.8	1567.8	1281.9	1071.7	948.1	896.4	898.3
47.5°	3681.6	3329.3	2716.9	2239.2	1785.5	1405.5	1106.7	909.3	802.4	765.5	761.8
50°	3836.5	3421.5	2707.7	2171.0	1658.2	1224.7	933.3	758.1	667.7	643.7	638.2
52.5°	4011.8	3521.1	2702.2	2089.8	1505.1	1032.9	778.4	625.3	564.4	547.8	546.0
55°	4222.0	3637.3	2709.6	1992.1	1320.7	852.2	647.4	538.6	498.0	488.8	486.9
57.5°	4478.4	3786.7	2731.7	1877.7	1127.0	695.4	551.5	485.1	459.3	451.9	451.9
60°	4757.0	3956.4	2772.3	1748.6	933.3	573.6	488.8	442.7	431.6	440.8	440.8
62.5°	5057.6	4155.6	2844.2	1591.8	752.6	485.1	439.0	407.6	400.3	418.7	420.5
65°	5336.1	4349.3	2890.3	1403.7	597.6	420.5	400.3	372.6	376.3	394.7	392.9
67.5°	5507.7	4509.8	2825.8	1167.6	474.0	372.6	359.7	335.7	344.9	359.7	361.5
70°	5402.5	4419.4	2506.7	881.7	370.7	324.6	315.4	300.7	308.0	326.5	333.9
72.5°	4887.9	3958.3	1949.6	595.8	298.8	273.0	276.7	269.3	278.5	295.1	311.7
75°	3967.5	2991.8	1307.7	381.8	236.1	232.4	237.9	232.4	236.1	252.7	261.9
77.5°	2071.4	1459.0	651.1	237.9	175.2	180.8	190.0	191.8	202.9	206.6	210.3
80°	966.5	656.6	271.1	132.8	116.2	127.3	145.7	147.6	151.2	156.8	158.6
82.5°	315.4	197.4	125.4	71.9	66.4	71.9	94.1	112.5	114.4	125.4	125.4
85°	33.2	20.3	27.7	29.5	25.8	31.4	42.4	40.6	18.4	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)