

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: P799379

Luminaire Tested: **ARCH2-110-730-U-T2R**

Issue Date: 4/4/2024

Test Information

Test Method: LM-79-08
Report Number: P799379
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: ARCH2-110-730-U-T2R
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 10 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13164 lumens
Efficiency: N/A
Efficacy: 120.2 lumens/watt
Luminous Opening: Rectangular (W 0.67' x L: 0.33' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

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

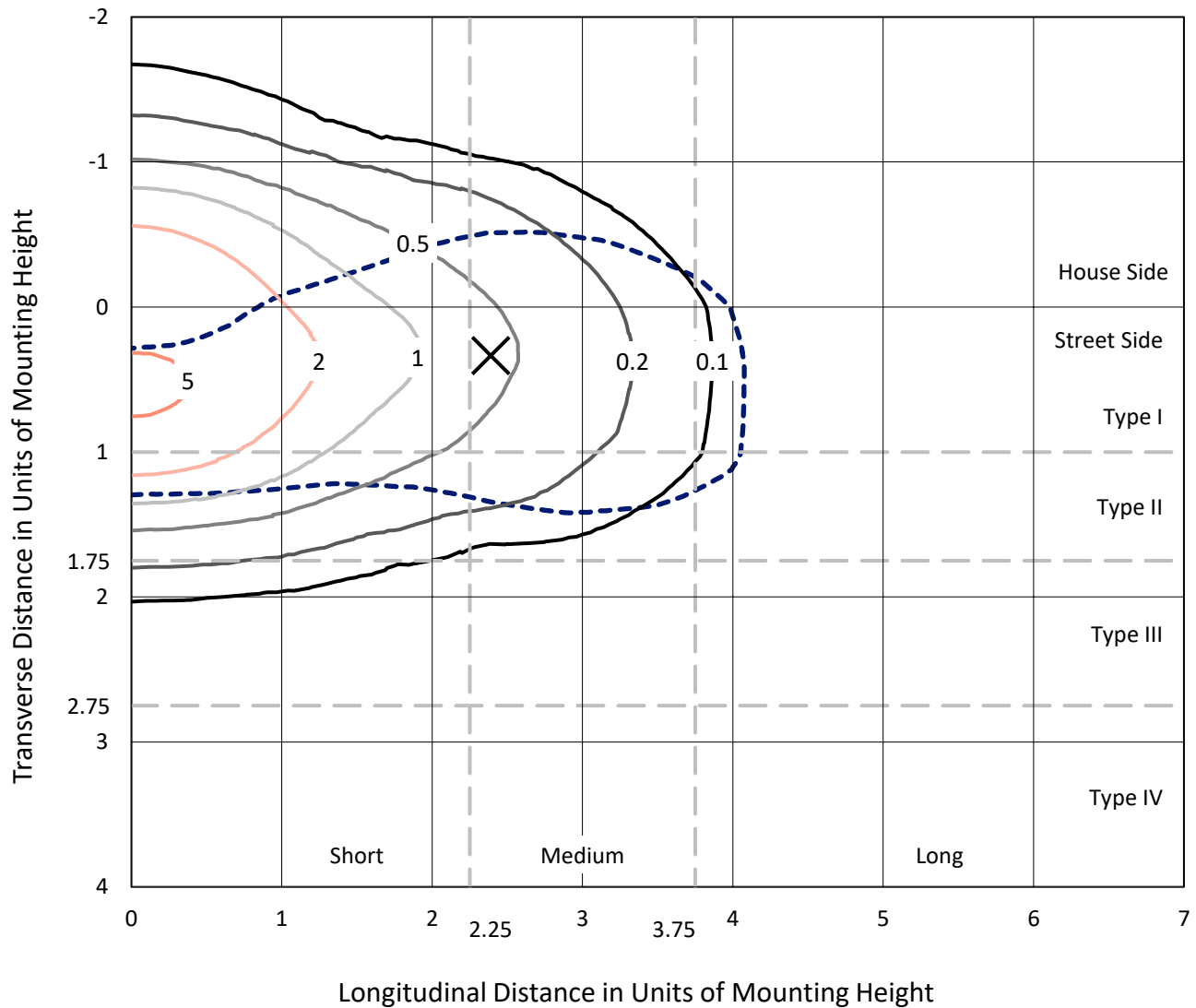


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd

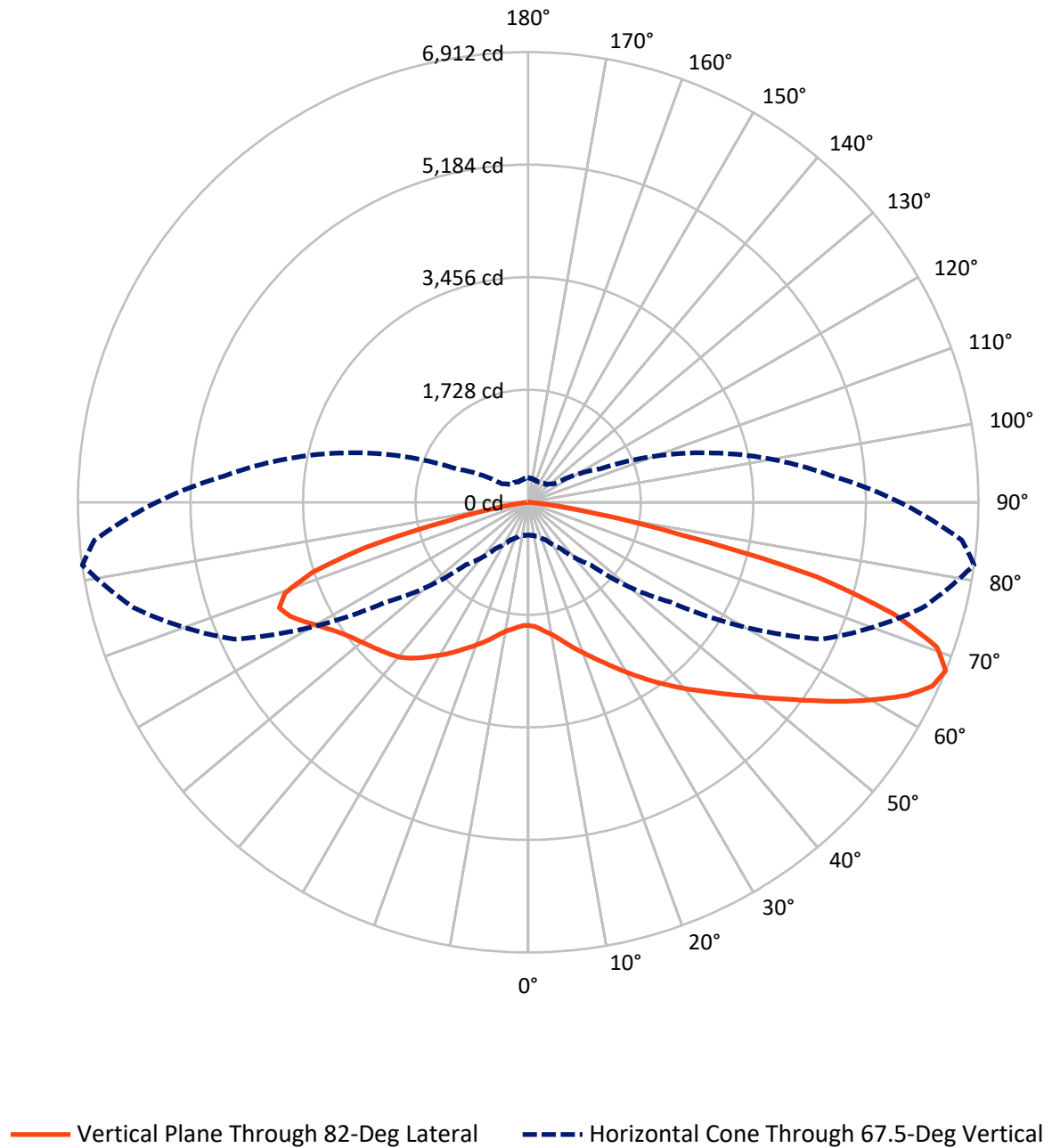


Based on 25 foot mounting height. Maximum calculated value = 5.8 fc
Type II - Medium - N/A

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Luminous Intensity Polar Plot



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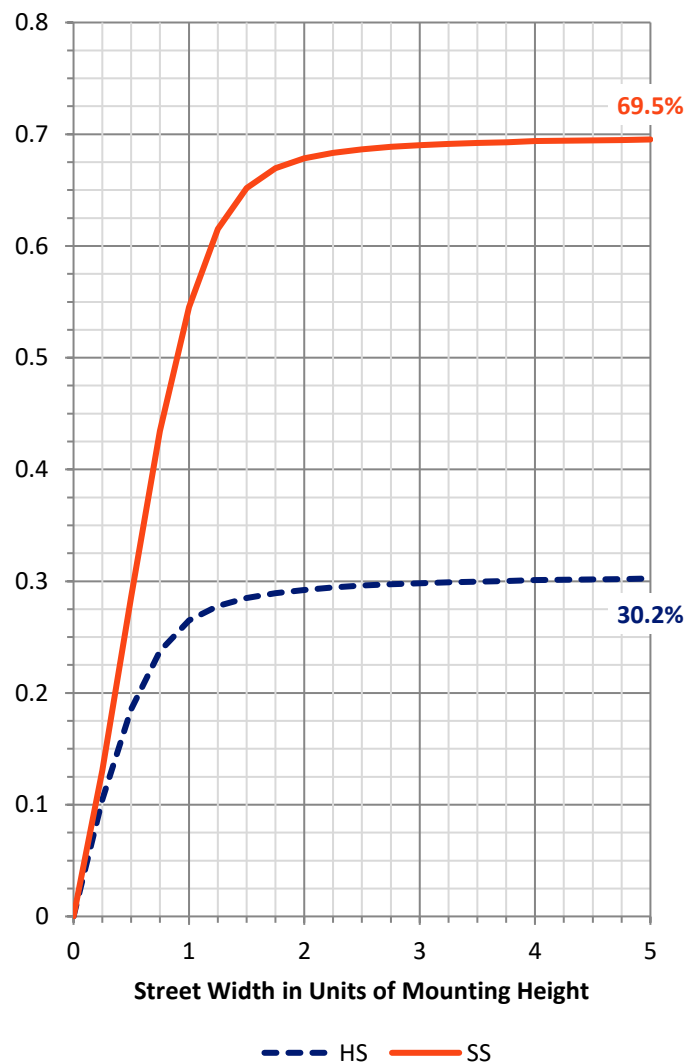
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4009.0	0.0	4009.0
	% Fixture	30.5	0.0	30.5
Street Side	Lumens	9155.0	0.0	9155.0
	% Fixture	69.5	0.0	69.5
Total	Lumens	13164.0	0.0	13164.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	195.6	1.5
10°-20°	704.4	5.4
20°-30°	1415.7	10.8
30°-40°	2223.9	16.9
40°-50°	2709.2	20.6
50°-60°	2559.8	19.4
60°-70°	2113.8	16.1
70°-80°	1151.1	8.7
80°-90°	90.5	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°	13164.0	100.0
0°-180°	13164.0	100.0

Coefficient of Utilization



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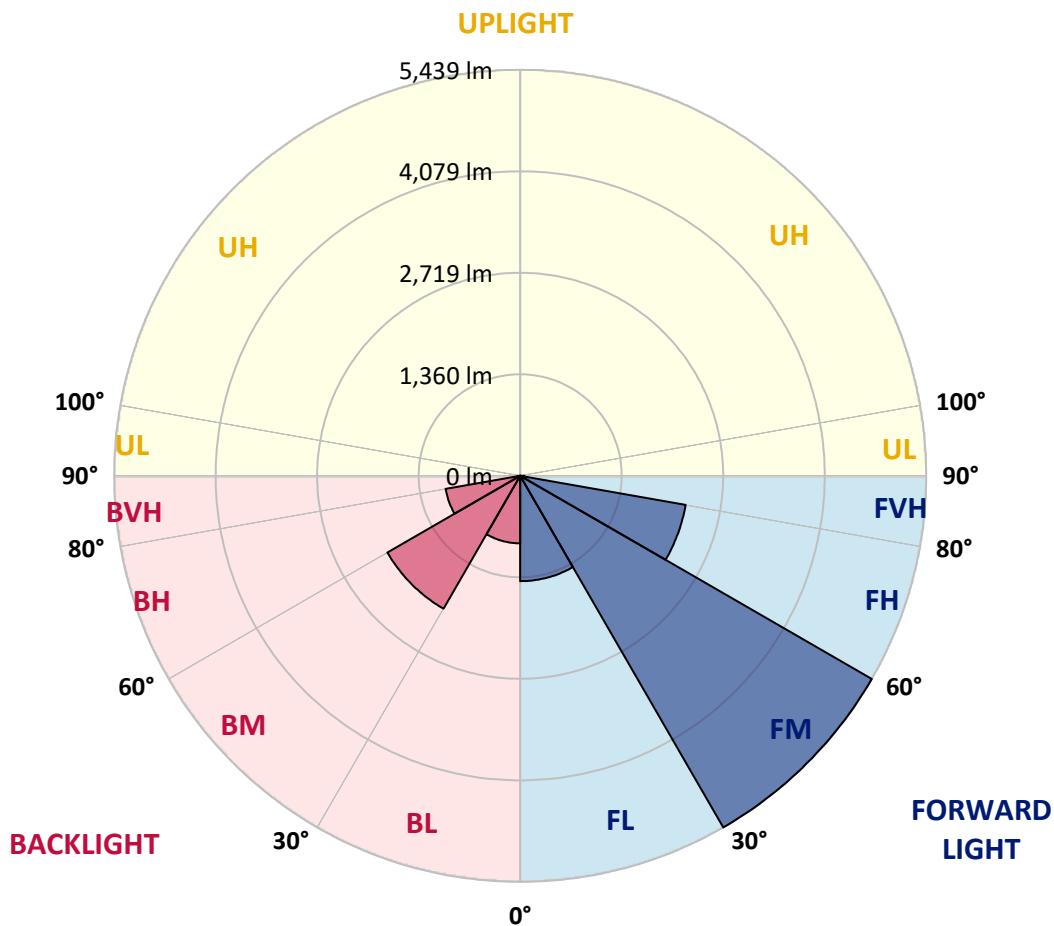
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1411.7	10.7			
FM	(30°-60°)	5438.6	41.3			
FH	(60°-80°)	2250.2	17.1			G2/5000
FVH	(80°-90°)	54.5	0.4			G1/100
BL	(0°-30°)	904.1	6.9	B2/1000		
BM	(30°-60°)	2054.3	15.6	B2/2500		
BH	(60°-80°)	1014.7	7.7	B3/2500		G3/2500
BVH	(80°-90°)	36.0	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°	85°
0°	1892.3	1892.3	1892.3	1892.3	1892.3	1892.3	1892.3	1892.3	1892.3	1892.3	1892.3
2.5°	1978.3	1978.3	1993.6	1993.6	1980.2	1959.2	1953.5	1930.5	1909.5	1909.5	1911.4
5°	2167.6	2165.7	2177.1	2161.8	2129.3	2087.3	2058.6	2008.9	1966.9	1953.5	1951.6
7.5°	2398.8	2396.9	2402.7	2377.8	2316.7	2247.8	2190.5	2110.2	2041.4	2012.7	2005.1
10°	2656.9	2655.0	2649.2	2607.2	2525.0	2418.0	2331.9	2221.1	2117.9	2072.0	2062.4
12.5°	2953.2	2949.3	2936.0	2874.8	2762.0	2624.4	2500.2	2356.8	2219.2	2156.1	2135.1
15°	3283.8	3278.1	3253.3	3178.7	3027.7	2853.8	2693.2	2509.7	2341.5	2259.3	2230.6
17.5°	3631.7	3631.7	3593.5	3482.6	3314.4	3098.4	2899.6	2666.4	2469.6	2368.3	2333.9
20°	3985.3	3983.4	3935.6	3801.8	3603.1	3354.6	3102.3	2846.1	2601.5	2479.1	2437.1
22.5°	4358.1	4354.2	4295.0	4142.1	3905.1	3624.1	3329.7	3023.9	2746.7	2599.5	2546.0
25°	4786.2	4780.5	4707.9	4520.5	4239.6	3922.3	3585.8	3232.2	2913.0	2733.3	2670.3
27.5°	5241.1	5233.5	5147.5	4929.6	4621.8	4239.6	3868.7	3473.1	3096.5	2882.4	2811.7
30°	5646.4	5640.6	5547.0	5323.3	4969.7	4554.9	4138.3	3713.9	3289.6	3041.1	2953.2
32.5°	5952.2	5952.2	5868.1	5648.3	5281.3	4857.0	4409.7	3941.4	3490.3	3211.2	3108.0
35°	6137.6	6143.3	6070.7	5894.9	5548.9	5141.8	4690.7	4209.0	3704.4	3392.8	3281.9
37.5°	6164.4	6183.5	6141.4	6022.9	5734.3	5378.8	4965.9	4467.0	3926.1	3576.3	3452.0
40°	6040.1	6053.5	6055.4	6009.5	5810.8	5548.9	5208.7	4740.4	4161.2	3769.3	3626.0
42.5°	5791.6	5801.2	5818.4	5831.8	5755.3	5623.4	5394.1	4994.6	4411.6	3966.2	3798.0
45°	5470.5	5468.6	5497.3	5554.6	5550.8	5581.4	5497.3	5225.9	4671.5	4189.9	3989.2
47.5°	4990.8	4981.2	5082.5	5212.5	5277.5	5420.8	5499.2	5407.4	4954.4	4436.4	4207.1
50°	4239.6	4230.0	4451.7	4757.6	4948.7	5166.6	5394.1	5516.4	5250.7	4713.6	4444.1
52.5°	3325.9	3316.3	3597.3	4132.5	4549.2	4866.5	5181.9	5541.2	5531.7	5023.2	4711.7
55°	2473.4	2465.7	2739.1	3318.2	3993.0	4518.6	4921.9	5476.3	5795.5	5378.8	5036.6
57.5°	1743.2	1739.4	1976.4	2456.2	3278.1	4094.3	4671.5	5350.1	6038.2	5764.9	5403.6
60°	1223.3	1217.6	1389.6	1760.4	2479.1	3454.0	4423.1	5181.9	6219.8	6145.3	5793.6
62.5°	823.8	820.0	942.3	1252.0	1760.4	2658.8	4046.5	5069.1	6323.0	6527.5	6187.3
65°	625.0	623.1	678.6	848.7	1246.3	1909.5	3448.2	5055.7	6336.4	6814.3	6521.8
67.5°	504.6	506.5	537.1	634.6	862.1	1357.1	2674.1	4971.6	6265.7	6911.7	6684.3
70°	412.9	412.9	426.2	491.2	636.5	915.6	1867.5	4589.3	6068.8	6657.5	6491.2
72.5°	315.4	317.3	359.3	397.6	479.8	642.2	1196.6	3798.0	5604.3	5870.0	5743.9
75°	250.4	248.5	273.3	326.9	372.7	458.7	734.0	2723.8	4769.0	4587.4	4507.2
77.5°	179.7	177.8	196.9	242.8	282.9	324.9	437.7	1374.3	2593.8	2383.6	2324.3
80°	122.3	118.5	135.7	168.2	187.3	191.1	214.1	527.6	1131.6	1066.6	1053.2
82.5°	63.1	63.1	72.6	95.6	97.5	99.4	95.6	170.1	374.6	349.8	334.5
85°	24.8	24.8	26.8	32.5	32.5	34.4	34.4	44.0	40.1	38.2	36.3
87.5°	1.9	1.9	3.8	3.8	5.7	5.7	5.7	7.6	9.6	9.6	9.6
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°	1892.3	1892.3	1892.3	1892.3	1892.3	1892.3	1892.3	1892.3	1892.3	1892.3	1892.3
2.5°	1907.6	1900.0	1875.1	1869.4	1865.6	1859.8	1861.7	1848.4	1842.6	1844.5	1836.9
5°	1942.0	1928.6	1898.1	1884.7	1880.8	1875.1	1880.8	1871.3	1861.7	1865.6	1861.7
7.5°	1989.8	1970.7	1932.5	1919.1	1917.2	1911.4	1919.1	1911.4	1903.8	1907.6	1900.0
10°	2039.5	2014.6	1972.6	1959.2	1959.2	1957.3	1965.0	1953.5	1945.8	1947.7	1943.9
12.5°	2112.1	2079.6	2033.8	2022.3	2016.6	2022.3	2024.2	2008.9	1995.5	1997.4	1991.7
15°	2200.1	2163.7	2114.0	2096.8	2093.0	2091.1	2083.5	2064.3	2047.1	2045.2	2039.5
17.5°	2295.6	2249.8	2190.5	2173.3	2156.1	2150.4	2131.2	2106.4	2079.6	2079.6	2072.0
20°	2387.4	2335.8	2265.0	2240.2	2215.4	2192.4	2159.9	2119.8	2085.4	2079.6	2072.0
22.5°	2486.8	2425.6	2343.4	2307.1	2263.1	2217.3	2161.8	2108.3	2064.3	2054.8	2049.1
25°	2597.6	2521.2	2423.7	2370.2	2299.5	2228.7	2146.5	2077.7	2026.1	2010.8	2007.0
27.5°	2720.0	2628.2	2509.7	2431.3	2328.1	2217.3	2112.1	2029.9	1966.9	1947.7	1942.0
30°	2844.2	2735.3	2588.1	2473.4	2328.1	2180.9	2049.1	1953.5	1880.8	1854.1	1850.3
32.5°	2968.5	2846.1	2658.8	2496.3	2305.2	2119.8	1966.9	1854.1	1771.9	1739.4	1747.0
35°	3117.5	2968.5	2723.8	2505.9	2267.0	2045.2	1873.2	1741.3	1657.2	1628.5	1634.3
37.5°	3272.4	3090.8	2775.4	2498.2	2213.4	1961.1	1768.1	1640.0	1534.9	1485.2	1490.9
40°	3406.2	3201.6	2811.7	2471.5	2144.6	1865.6	1664.9	1496.7	1351.4	1303.6	1297.9
42.5°	3532.3	3283.8	2830.8	2431.3	2066.3	1754.7	1517.7	1301.7	1156.4	1097.2	1099.1
45°	3664.2	3364.1	2823.2	2377.8	1968.8	1624.7	1328.4	1110.5	982.5	929.0	930.9
47.5°	3815.2	3450.1	2815.5	2320.5	1850.3	1456.5	1146.9	942.3	831.5	793.2	789.4
50°	3975.8	3545.7	2806.0	2249.8	1718.4	1269.2	967.2	785.6	691.9	667.1	661.4
52.5°	4157.4	3648.9	2800.2	2165.7	1559.7	1070.4	806.6	648.0	584.9	567.7	565.8
55°	4375.3	3769.3	2807.9	2064.3	1368.6	883.1	670.9	558.1	516.1	506.5	504.6
57.5°	4641.0	3924.2	2830.8	1945.8	1167.9	720.6	571.5	502.7	475.9	468.3	468.3
60°	4929.6	4100.0	2872.9	1812.0	967.2	594.5	506.5	458.7	447.3	456.8	456.8
62.5°	5241.1	4306.5	2947.4	1649.6	779.9	502.7	454.9	422.4	414.8	433.9	435.8
65°	5529.8	4507.2	2995.2	1454.6	619.3	435.8	414.8	386.1	389.9	409.0	407.1
67.5°	5707.5	4673.5	2928.3	1209.9	491.2	386.1	372.7	347.9	357.4	372.7	374.6
70°	5598.6	4579.8	2597.6	913.7	384.2	336.4	326.9	311.6	319.2	338.3	346.0
72.5°	5065.3	4101.9	2020.4	617.4	309.7	282.9	286.7	279.1	288.6	305.8	323.0
75°	4111.5	3100.3	1355.2	395.7	244.7	240.8	246.6	240.8	244.7	261.9	271.4
77.5°	2146.5	1511.9	674.7	246.6	181.6	187.3	196.9	198.8	210.3	214.1	217.9
80°	1001.6	680.5	281.0	137.6	120.4	131.9	151.0	152.9	156.7	162.5	164.4
82.5°	326.9	204.5	130.0	74.5	68.8	74.5	97.5	116.6	118.5	130.0	130.0
85°	34.4	21.0	28.7	30.6	26.8	32.5	44.0	42.1	19.1	11.5	11.5
87.5°	9.6	7.6	9.6	9.6	7.6	7.6	5.7	1.9	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)