

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: P800199

Luminaire Tested: **ARCH2-80-750-U-T3**

Issue Date: 4/4/2024

Test Information

Test Method: LM-79-08
Report Number: P800199
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2310-189-18)
Test Lab: INNOVATION CENTER
Issue Date: 4/4/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH2-80-750-U-T3
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 5000K, 630mA LIGHTSQUARES WITH 10 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11551 lumens
Efficiency: N/A
Efficacy: 137.0 lumens/watt
Luminous Opening: Rectangular (W 0.67' x L: 0.33' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G2

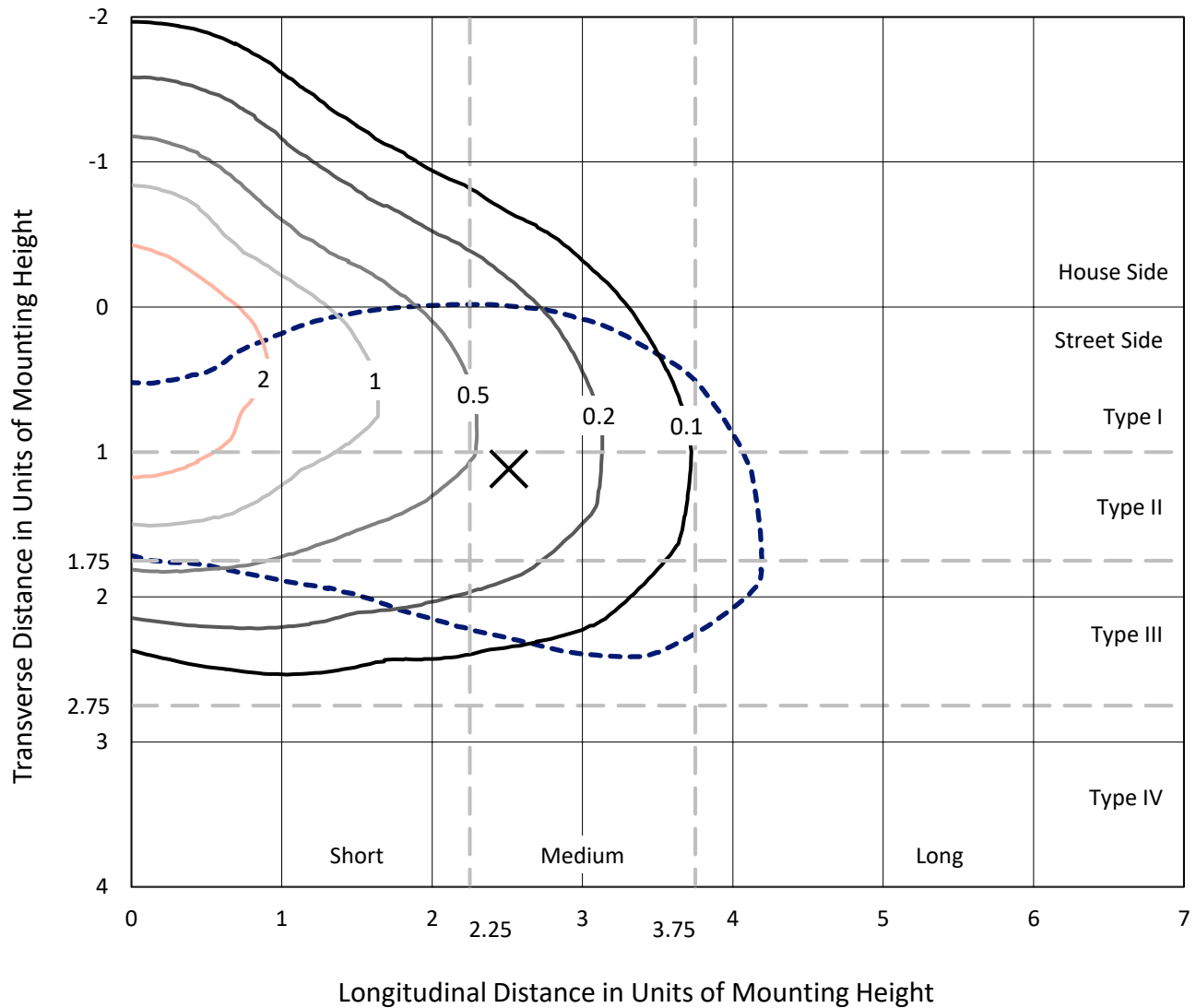
Input Watts (W): 84.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

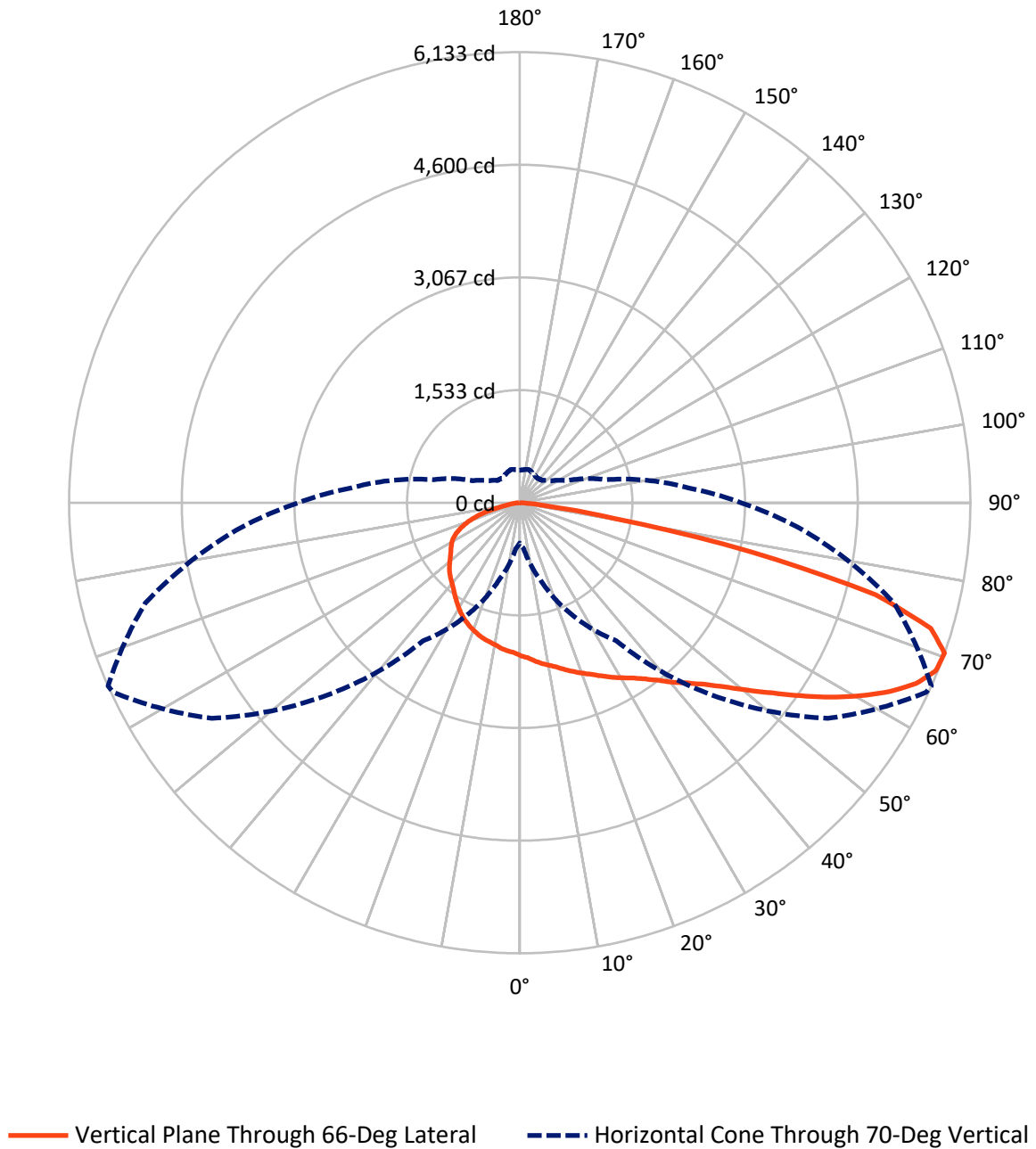
✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.6 fc
Type III - Medium - N/A

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Luminous Intensity Polar Plot



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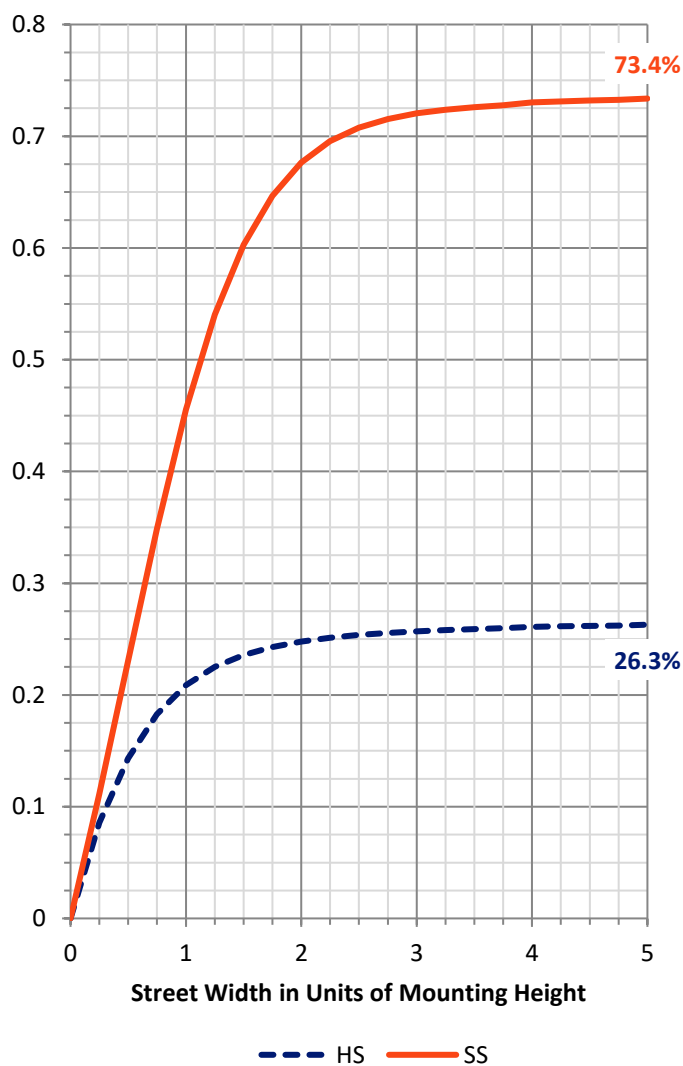
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3060.8	0.0	3060.8
	% Fixture	26.5	0.0	26.5
Street Side	Lumens	8490.2	0.0	8490.2
	% Fixture	73.5	0.0	73.5
Total	Lumens	11551.0	0.0	11551.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	200.3	1.7
10°-20°	600.9	5.2
20°-30°	1007.3	8.7
30°-40°	1508.2	13.1
40°-50°	2016.5	17.5
50°-60°	2354.3	20.4
60°-70°	2341.0	20.3
70°-80°	1385.9	12.0
80°-90°	136.6	1.2
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°	11551.0	100.0
0°-180°	11551.0	100.0

Coefficient of Utilization



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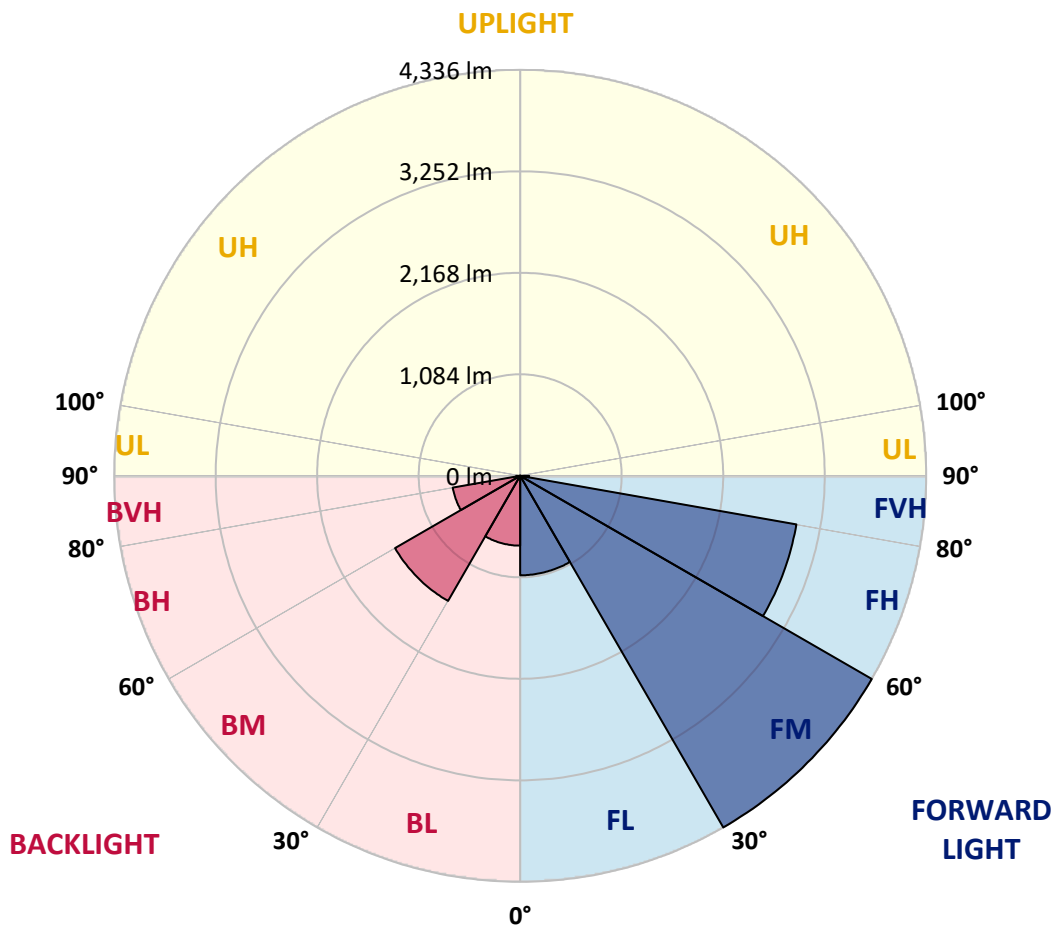
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1062.4	9.2			
FM	(30°-60°)	4336.1	37.5			
FH	(60°-80°)	2995.8	25.9			G2/5000
FVH	(80°-90°)	96.0	0.8			G1/100
BL	(0°-30°)	746.1	6.5	B2/1000		
BM	(30°-60°)	1542.9	13.4	B2/2500		
BH	(60°-80°)	731.1	6.3	B2/1000		G2/1000
BVH	(80°-90°)	40.6	0.4			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 Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	2084.7	2084.7	2084.7	2084.7	2084.7	2084.7	2084.7	2084.7	2084.7	2084.7	2084.7
2.5°	2161.3	2157.9	2156.2	2149.4	2134.1	2140.9	2125.6	2115.3	2113.6	2089.8	2076.2
5°	2249.9	2248.2	2244.8	2234.6	2210.7	2214.1	2188.6	2169.9	2164.7	2127.3	2098.3
7.5°	2324.8	2321.4	2319.7	2306.1	2280.6	2278.9	2248.2	2220.9	2212.4	2161.3	2117.1
10°	2382.7	2377.6	2381.0	2367.4	2340.2	2335.1	2295.9	2260.1	2251.6	2186.9	2125.6
12.5°	2432.1	2428.7	2433.8	2421.9	2399.8	2394.7	2355.5	2309.5	2299.3	2224.4	2144.3
15°	2486.6	2474.7	2484.9	2479.8	2464.5	2462.8	2427.0	2375.9	2362.3	2272.0	2173.3
17.5°	2515.6	2508.8	2520.7	2522.4	2515.6	2527.5	2493.5	2432.1	2420.2	2316.3	2198.8
20°	2536.0	2525.8	2539.4	2549.7	2554.8	2578.6	2551.4	2491.8	2478.1	2358.9	2222.7
22.5°	2605.9	2583.7	2585.4	2592.2	2595.6	2629.7	2612.7	2554.8	2541.1	2411.7	2251.6
25°	2781.3	2737.0	2708.1	2687.6	2663.8	2692.7	2682.5	2626.3	2614.4	2474.7	2287.4
27.5°	3053.8	2997.6	2939.7	2880.1	2786.4	2774.5	2757.4	2706.4	2692.7	2537.7	2323.1
30°	3363.8	3307.6	3239.4	3144.1	2968.6	2876.7	2837.5	2781.3	2766.0	2593.9	2357.2
32.5°	3672.1	3622.7	3554.5	3438.7	3188.4	3001.0	2917.5	2859.6	2844.3	2655.3	2398.1
35°	3912.2	3881.5	3837.3	3692.5	3406.4	3147.5	3033.4	2963.5	2946.5	2752.3	2473.0
37.5°	4106.4	4084.2	4046.8	3895.2	3564.8	3294.0	3166.2	3086.2	3067.4	2857.9	2553.1
40°	4392.5	4334.6	4303.9	4084.2	3702.7	3426.8	3316.1	3232.6	3212.2	2970.3	2617.8
42.5°	4636.1	4593.5	4556.0	4252.8	3833.9	3540.9	3457.5	3380.8	3353.6	3081.1	2687.6
45°	4676.9	4694.0	4675.2	4336.3	4041.6	3653.3	3600.5	3551.1	3525.6	3230.9	2793.2
47.5°	4678.6	4678.6	4567.9	4384.0	4298.8	3779.4	3753.8	3770.8	3743.6	3421.7	2919.3
50°	4556.0	4578.1	4520.2	4395.9	4367.0	3905.4	3941.2	4033.1	4005.9	3624.4	3055.5
52.5°	4302.2	4375.5	4373.8	4377.2	4268.2	4012.7	4138.7	4348.2	4302.2	3852.6	3200.3
55°	3854.3	4000.8	4131.9	4244.3	4183.0	4077.4	4380.6	4683.7	4636.1	4108.1	3346.7
57.5°	3471.1	3564.8	3728.3	4046.8	4082.5	4133.6	4607.1	5034.6	4992.0	4390.8	3500.0
60°	3033.4	3162.8	3326.3	3779.4	3959.9	4206.9	4855.8	5376.9	5336.1	4676.9	3648.2
62.5°	2360.6	2527.5	2854.5	3368.9	3781.1	4252.8	5051.6	5678.4	5659.7	4947.7	3781.1
65°	1645.3	1793.4	2251.6	2864.7	3496.6	4232.4	5208.3	5947.5	5930.5	5169.2	3874.7
67.5°	960.6	1132.6	1650.4	2306.1	2994.2	4091.0	5259.4	6105.9	6105.9	5303.7	3900.3
70°	548.4	628.5	1088.3	1681.0	2295.9	3701.0	5116.4	6104.2	6133.2	5273.0	3794.7
72.5°	383.2	419.0	732.4	1130.9	1556.7	2994.2	4741.7	5809.5	5848.7	4983.5	3433.6
75°	298.1	323.6	516.1	771.5	981.0	2033.6	3922.4	4898.3	5002.2	4247.7	2776.2
77.5°	226.5	245.3	301.5	482.0	628.5	1168.4	2588.8	3212.2	3219.0	2600.8	1488.6
80°	165.2	183.9	201.0	294.7	333.8	546.7	977.6	1342.1	1304.6	1258.7	805.6
82.5°	98.8	117.5	122.6	160.1	163.5	233.3	342.3	432.6	415.6	553.5	378.1
85°	42.6	59.6	63.0	73.2	69.8	95.4	136.3	114.1	102.2	117.5	81.8
87.5°	10.2	17.0	17.0	18.7	15.3	23.8	25.5	18.7	17.0	20.4	20.4
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°	2084.7	2084.7	2084.7	2084.7	2084.7	2084.7	2084.7	2084.7	2084.7	2084.7	2084.7
2.5°	2072.8	2067.7	2069.4	2040.4	2031.9	2023.4	2018.3	2014.9	2011.5	2016.6	2021.7
5°	2088.1	2076.2	2062.6	2020.0	2002.9	1984.2	1970.6	1958.7	1953.5	1953.5	1958.7
7.5°	2100.0	2079.6	2050.6	1994.4	1963.8	1938.2	1916.1	1900.7	1892.2	1892.2	1897.3
10°	2101.7	2072.8	2026.8	1958.7	1917.8	1880.3	1854.8	1837.7	1825.8	1825.8	1829.2
12.5°	2111.9	2072.8	2013.2	1931.4	1880.3	1834.3	1803.7	1778.1	1773.0	1773.0	1776.4
15°	2129.0	2081.3	2004.6	1907.6	1846.2	1793.4	1759.4	1732.1	1721.9	1728.7	1730.4
17.5°	2144.3	2086.4	1989.3	1876.9	1803.7	1745.8	1708.3	1684.4	1670.8	1686.1	1686.1
20°	2154.5	2086.4	1967.2	1837.7	1757.7	1693.0	1657.2	1628.2	1618.0	1636.8	1638.5
22.5°	2169.9	2084.7	1943.3	1798.6	1708.3	1640.2	1604.4	1582.3	1577.1	1597.6	1604.4
25°	2186.9	2088.1	1917.8	1754.3	1653.8	1587.4	1560.1	1549.9	1553.3	1578.8	1587.4
27.5°	2205.6	2094.9	1892.2	1704.9	1594.2	1534.6	1519.2	1524.3	1538.0	1570.3	1580.6
30°	2222.7	2096.6	1856.5	1647.0	1526.0	1469.8	1476.7	1498.8	1519.2	1551.6	1563.5
32.5°	2244.8	2098.3	1819.0	1584.0	1452.8	1411.9	1442.6	1478.4	1498.8	1529.5	1543.1
35°	2299.3	2127.3	1790.0	1522.6	1384.7	1362.5	1413.6	1459.6	1471.5	1498.8	1510.7
37.5°	2362.3	2175.0	1774.7	1459.6	1318.3	1313.2	1377.9	1423.9	1427.3	1444.3	1456.2
40°	2401.5	2195.4	1757.7	1406.8	1258.7	1262.1	1328.5	1364.2	1357.4	1369.4	1377.9
42.5°	2440.7	2202.2	1721.9	1362.5	1202.4	1205.9	1256.9	1282.5	1285.9	1311.4	1323.4
45°	2507.1	2220.9	1682.7	1321.7	1151.3	1139.4	1170.1	1204.1	1248.4	1297.8	1311.4
47.5°	2595.6	2260.1	1641.9	1272.3	1102.0	1062.8	1074.7	1134.3	1180.3	1226.3	1234.8
50°	2685.9	2299.3	1604.4	1212.7	1052.6	981.0	986.1	1040.6	1078.1	1113.9	1119.0
52.5°	2774.5	2333.4	1572.0	1156.5	996.4	884.0	904.4	960.6	986.1	1003.2	1008.3
55°	2863.0	2362.3	1543.1	1108.8	931.6	807.3	826.0	878.8	904.4	912.9	916.3
57.5°	2955.0	2396.4	1520.9	1067.9	858.4	739.2	751.1	788.6	812.4	822.6	819.2
60°	3031.7	2425.3	1509.0	1025.3	785.2	676.2	672.8	706.8	740.9	751.1	747.7
62.5°	3091.3	2444.1	1490.3	970.8	720.4	613.1	596.1	640.4	676.2	683.0	688.1
65°	3123.6	2445.8	1444.3	901.0	654.0	545.0	533.1	577.4	599.5	606.3	606.3
67.5°	3118.5	2418.5	1354.0	807.3	592.7	483.7	473.5	500.7	533.1	538.2	533.1
70°	3012.9	2306.1	1209.3	708.5	519.5	429.2	410.5	437.7	468.4	449.6	441.1
72.5°	2713.2	2014.9	996.4	599.5	437.7	361.1	352.6	379.8	381.5	384.9	376.4
75°	2140.9	1500.5	746.0	466.7	354.3	303.2	301.5	296.4	303.2	316.8	306.6
77.5°	1124.1	749.4	403.7	286.1	257.2	243.6	231.6	229.9	250.4	258.9	248.7
80°	609.7	420.7	231.6	172.0	156.7	158.4	173.7	170.3	192.5	197.6	189.1
82.5°	265.7	199.3	114.1	103.9	103.9	102.2	107.3	119.2	143.1	143.1	114.1
85°	57.9	49.4	44.3	51.1	57.9	57.9	57.9	57.9	40.9	22.1	15.3
87.5°	18.7	18.7	18.7	20.4	22.1	22.1	18.7	13.6	8.5	1.7	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)