

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: P800147

Luminaire Tested: **ARCH2-80-730-U-T2R**

Issue Date: 4/4/2024

Test Information

Test Method: LM-79-08
Report Number: P800147
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: ARCH2-80-730-U-T2R
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 630mA LIGHTSQUARES WITH 10 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11054 lumens
Efficiency: N/A
Efficacy: 131.1 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): 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

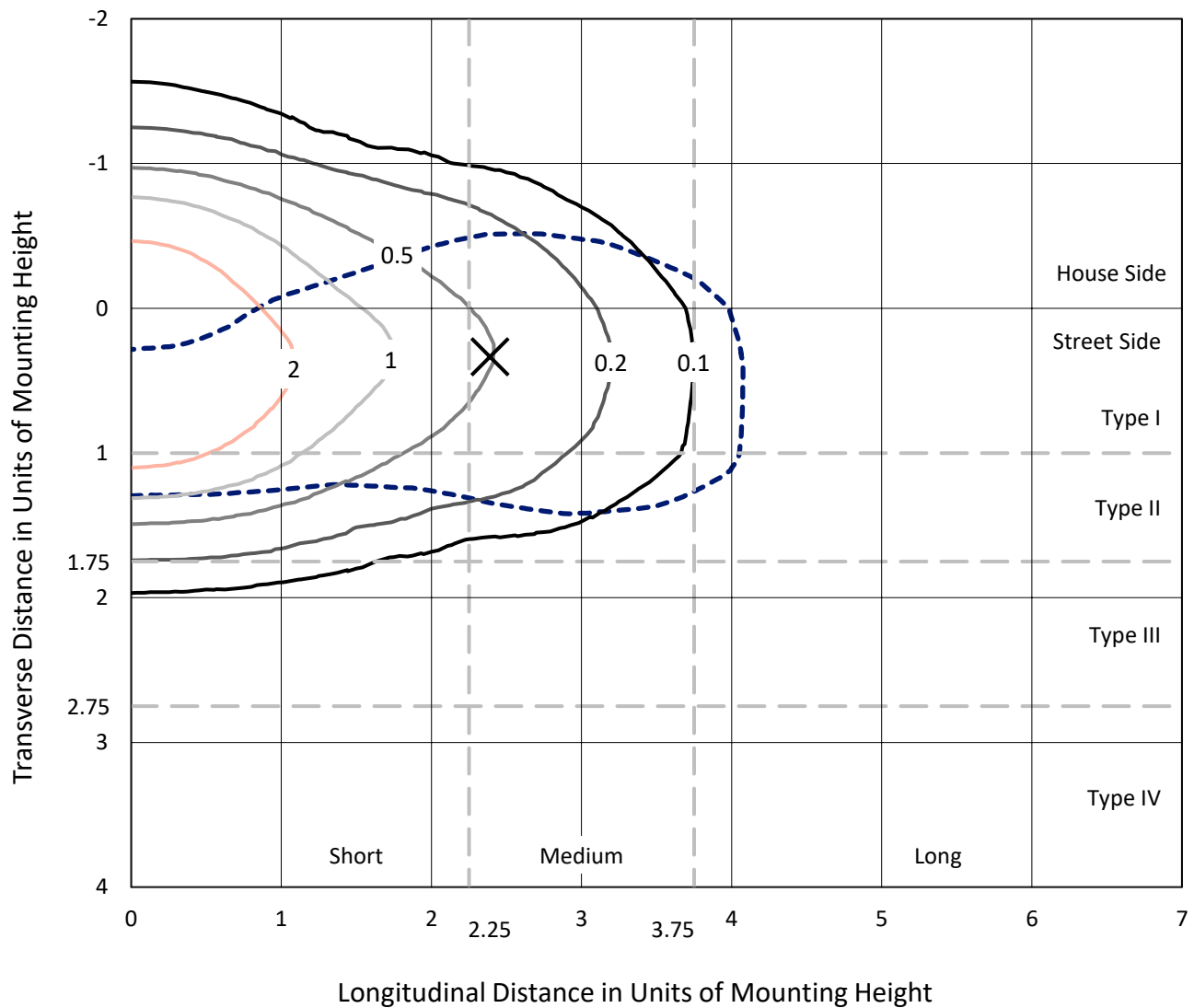


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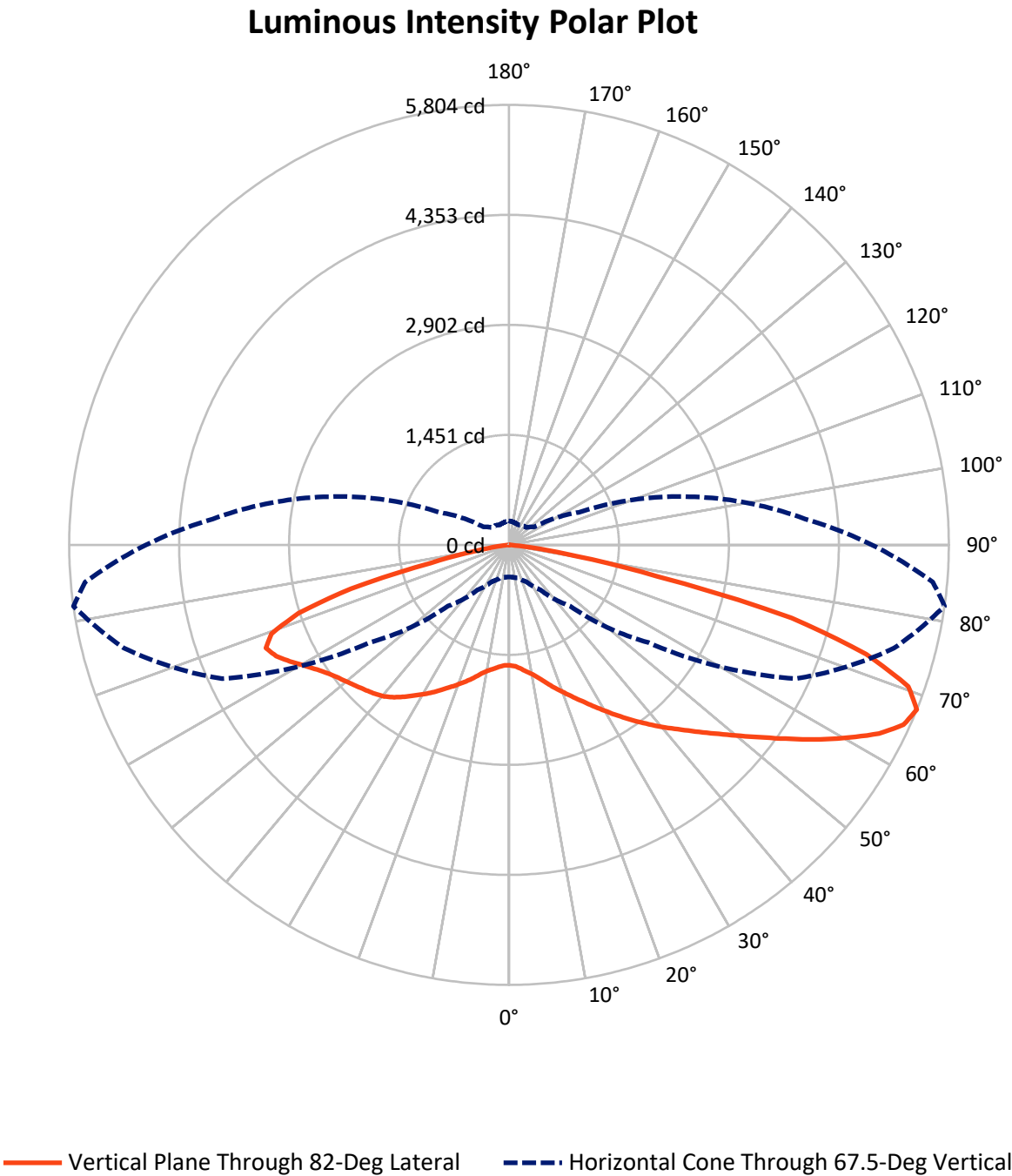
Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.9 fc
Type II - Medium - N/A

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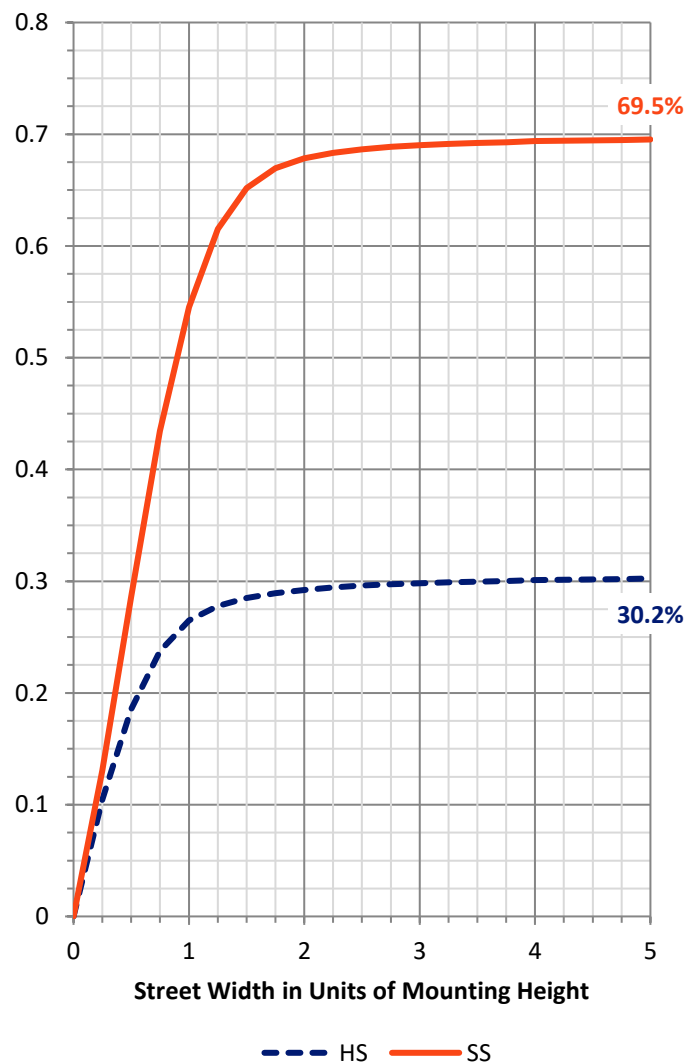
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3366.4	0.0	3366.4
	% Fixture	30.5	0.0	30.5
Street Side	Lumens	7687.6	0.0	7687.6
	% Fixture	69.5	0.0	69.5
Total	Lumens	11054.0	0.0	11054.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	164.2	1.5
10°-20°	591.5	5.4
20°-30°	1188.8	10.8
30°-40°	1867.4	16.9
40°-50°	2274.9	20.6
50°-60°	2149.5	19.4
60°-70°	1775.0	16.1
70°-80°	966.6	8.7
80°-90°	76.0	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°	11054.0	100.0
0°-180°	11054.0	100.0

Coefficient of Utilization



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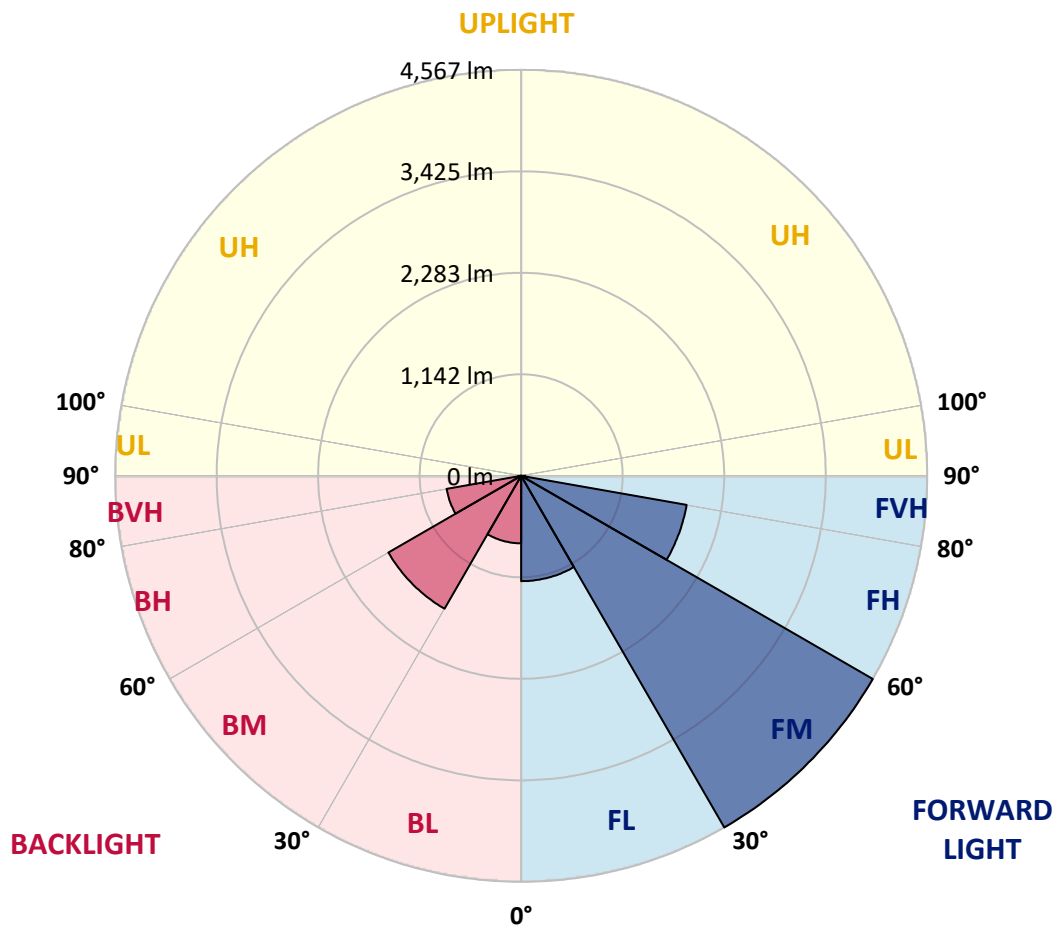
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1185.4	10.7			
FM	(30°-60°)	4566.9	41.3			
FH	(60°-80°)	1889.5	17.1			G2/5000
FVH	(80°-90°)	45.8	0.4			G1/100
BL	(0°-30°)	759.1	6.9	B2/1000		
BM	(30°-60°)	1725.0	15.6	B2/2500		
BH	(60°-80°)	852.0	7.7	B2/1000		G2/1000
BVH	(80°-90°)	30.2	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°	1589.0	1589.0	1589.0	1589.0	1589.0	1589.0	1589.0	1589.0	1589.0	1589.0	1589.0
2.5°	1661.2	1661.2	1674.1	1674.1	1662.8	1645.2	1640.4	1621.1	1603.5	1603.5	1605.1
5°	1820.1	1818.5	1828.2	1815.3	1788.0	1752.7	1728.6	1686.9	1651.6	1640.4	1638.8
7.5°	2014.3	2012.7	2017.6	1996.7	1945.3	1887.5	1839.4	1772.0	1714.2	1690.1	1683.7
10°	2231.0	2229.4	2224.6	2189.3	2120.3	2030.4	1958.2	1865.1	1778.4	1739.9	1731.9
12.5°	2479.8	2476.6	2465.4	2414.0	2319.3	2203.7	2099.4	1979.0	1863.5	1810.5	1792.8
15°	2757.5	2752.7	2731.8	2669.2	2542.4	2396.4	2261.5	2107.4	1966.2	1897.2	1873.1
17.5°	3049.6	3049.6	3017.5	2924.4	2783.2	2601.8	2434.9	2239.1	2073.7	1988.7	1959.8
20°	3346.5	3344.9	3304.8	3192.5	3025.5	2816.9	2605.0	2389.9	2184.5	2081.8	2046.4
22.5°	3659.5	3656.3	3606.6	3478.2	3279.1	3043.2	2796.0	2539.2	2306.5	2182.9	2137.9
25°	4019.1	4014.2	3953.3	3796.0	3560.0	3293.6	3011.1	2714.2	2446.1	2295.2	2242.3
27.5°	4401.1	4394.6	4322.4	4139.4	3881.0	3560.0	3248.6	2916.4	2600.2	2420.4	2361.0
30°	4741.3	4736.5	4657.9	4470.1	4173.1	3824.9	3474.9	3118.6	2762.3	2553.6	2479.8
32.5°	4998.1	4998.1	4927.5	4742.9	4434.8	4078.5	3702.9	3309.6	2930.8	2696.5	2609.8
35°	5153.8	5158.7	5097.7	4950.0	4659.5	4317.6	3938.8	3534.3	3110.6	2849.0	2755.9
37.5°	5176.3	5192.4	5157.0	5057.5	4815.2	4516.6	4169.9	3751.0	3296.8	3003.1	2898.7
40°	5072.0	5083.2	5084.8	5046.3	4879.4	4659.5	4373.8	3980.5	3494.2	3165.2	3044.8
42.5°	4863.3	4871.3	4885.8	4897.0	4832.8	4722.1	4529.5	4194.0	3704.5	3330.5	3189.2
45°	4593.7	4592.1	4616.1	4664.3	4661.1	4686.8	4616.1	4388.2	3922.8	3518.3	3349.8
47.5°	4190.8	4182.8	4267.8	4377.0	4431.6	4551.9	4617.8	4540.7	4160.3	3725.3	3532.7
50°	3560.0	3552.0	3738.2	3995.0	4155.5	4338.5	4529.5	4632.2	4409.1	3958.1	3731.8
52.5°	2792.8	2784.8	3020.7	3470.1	3820.0	4086.5	4351.3	4653.1	4645.0	4218.1	3956.5
55°	2076.9	2070.5	2300.0	2786.4	3353.0	3794.4	4133.0	4598.5	4866.5	4516.6	4229.3
57.5°	1463.8	1460.6	1659.6	2062.5	2752.7	3438.0	3922.8	4492.6	5070.4	4840.9	4537.5
60°	1027.2	1022.4	1166.9	1478.3	2081.8	2900.3	3714.1	4351.3	5222.9	5160.3	4864.9
62.5°	691.8	688.6	791.3	1051.3	1478.3	2232.6	3397.9	4256.6	5309.5	5481.3	5195.6
65°	524.9	523.2	569.8	712.6	1046.5	1603.5	2895.5	4245.4	5320.8	5722.0	5476.5
67.5°	423.7	425.3	451.0	532.9	723.9	1139.6	2245.5	4174.8	5261.4	5803.9	5612.9
70°	346.7	346.7	357.9	412.5	534.5	768.8	1568.1	3853.7	5096.1	5590.4	5450.8
72.5°	264.8	266.4	301.8	333.9	402.9	539.3	1004.8	3189.2	4706.0	4929.1	4823.2
75°	210.3	208.7	229.5	274.5	313.0	385.2	616.3	2287.2	4004.6	3852.1	3784.7
77.5°	150.9	149.3	165.3	203.8	237.5	272.9	367.6	1154.0	2178.1	2001.5	1951.7
80°	102.7	99.5	114.0	141.2	157.3	160.5	179.8	443.0	950.2	895.6	884.4
82.5°	53.0	53.0	61.0	80.3	81.9	83.5	80.3	142.9	314.6	293.7	280.9
85°	20.9	20.9	22.5	27.3	27.3	28.9	28.9	36.9	33.7	32.1	30.5
87.5°	1.6	1.6	3.2	3.2	4.8	4.8	4.8	6.4	8.0	8.0	8.0
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°	1589.0	1589.0	1589.0	1589.0	1589.0	1589.0	1589.0	1589.0	1589.0	1589.0	1589.0
2.5°	1601.8	1595.4	1574.6	1569.7	1566.5	1561.7	1563.3	1552.1	1547.3	1548.9	1542.5
5°	1630.7	1619.5	1593.8	1582.6	1579.4	1574.6	1579.4	1571.4	1563.3	1566.5	1563.3
7.5°	1670.9	1654.8	1622.7	1611.5	1609.9	1605.1	1611.5	1605.1	1598.6	1601.8	1595.4
10°	1712.6	1691.7	1656.4	1645.2	1645.2	1643.6	1650.0	1640.4	1633.9	1635.6	1632.3
12.5°	1773.6	1746.3	1707.8	1698.2	1693.3	1698.2	1699.8	1686.9	1675.7	1677.3	1672.5
15°	1847.4	1816.9	1775.2	1760.7	1757.5	1755.9	1749.5	1733.5	1719.0	1717.4	1712.6
17.5°	1927.7	1889.2	1839.4	1825.0	1810.5	1805.7	1789.6	1768.8	1746.3	1746.3	1739.9
20°	2004.7	1961.4	1902.0	1881.1	1860.3	1841.0	1813.7	1780.0	1751.1	1746.3	1739.9
22.5°	2088.2	2036.8	1967.8	1937.3	1900.4	1861.9	1815.3	1770.4	1733.5	1725.4	1720.6
25°	2181.3	2117.1	2035.2	1990.3	1930.9	1871.5	1802.5	1744.7	1701.4	1688.5	1685.3
27.5°	2284.0	2207.0	2107.4	2041.6	1955.0	1861.9	1773.6	1704.6	1651.6	1635.6	1630.7
30°	2388.3	2296.8	2173.2	2076.9	1955.0	1831.4	1720.6	1640.4	1579.4	1556.9	1553.7
32.5°	2492.7	2389.9	2232.6	2096.2	1935.7	1780.0	1651.6	1556.9	1487.9	1460.6	1467.0
35°	2617.8	2492.7	2287.2	2104.2	1903.6	1717.4	1573.0	1462.2	1391.6	1367.5	1372.3
37.5°	2747.9	2595.4	2330.5	2097.8	1858.7	1646.8	1484.7	1377.1	1288.9	1247.1	1251.9
40°	2860.2	2688.5	2361.0	2075.3	1800.9	1566.5	1398.0	1256.8	1134.8	1094.6	1089.8
42.5°	2966.1	2757.5	2377.1	2041.6	1735.1	1473.4	1274.4	1093.0	971.1	921.3	922.9
45°	3076.9	2824.9	2370.7	1996.7	1653.2	1364.3	1115.5	932.5	825.0	780.1	781.7
47.5°	3203.7	2897.1	2364.2	1948.5	1553.7	1223.1	963.0	791.3	698.2	666.1	662.9
50°	3338.5	2977.4	2356.2	1889.2	1442.9	1065.8	812.2	659.7	581.0	560.2	555.3
52.5°	3491.0	3064.1	2351.4	1818.5	1309.7	898.8	677.3	544.1	491.1	476.7	475.1
55°	3674.0	3165.2	2357.8	1733.5	1149.2	741.5	563.4	468.7	433.4	425.3	423.7
57.5°	3897.1	3295.2	2377.1	1633.9	980.7	605.1	479.9	422.1	399.7	393.2	393.2
60°	4139.4	3442.8	2412.4	1521.6	812.2	499.2	425.3	385.2	375.6	383.6	383.6
62.5°	4401.1	3616.2	2475.0	1385.2	654.9	422.1	382.0	354.7	348.3	364.3	366.0
65°	4643.4	3784.7	2515.1	1221.4	520.0	366.0	348.3	324.2	327.4	343.5	341.9
67.5°	4792.7	3924.4	2458.9	1016.0	412.5	324.2	313.0	292.1	300.1	313.0	314.6
70°	4701.2	3845.7	2181.3	767.2	322.6	282.5	274.5	261.6	268.0	284.1	290.5
72.5°	4253.4	3444.5	1696.5	518.4	260.0	237.5	240.8	234.3	242.4	256.8	271.3
75°	3452.5	2603.4	1138.0	332.2	205.4	202.2	207.1	202.2	205.4	219.9	227.9
77.5°	1802.5	1269.6	566.6	207.1	152.5	157.3	165.3	166.9	176.6	179.8	183.0
80°	841.1	571.4	235.9	115.6	101.1	110.7	126.8	128.4	131.6	136.4	138.0
82.5°	274.5	171.7	109.1	62.6	57.8	62.6	81.9	97.9	99.5	109.1	109.1
85°	28.9	17.7	24.1	25.7	22.5	27.3	36.9	35.3	16.1	9.6	9.6
87.5°	8.0	6.4	8.0	8.0	6.4	6.4	4.8	1.6	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)