

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: P800019

Luminaire Tested: **ARCH2-70-730-U-T2R**

Issue Date: 4/4/2024

Test Information

Test Method: LM-79-08
Report Number: P800019
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: ARCH2-70-730-U-T2R
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 555mA LIGHTSQUARES WITH 10 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10012 lumens
Efficiency: N/A
Efficacy: 136.0 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): 73.6
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

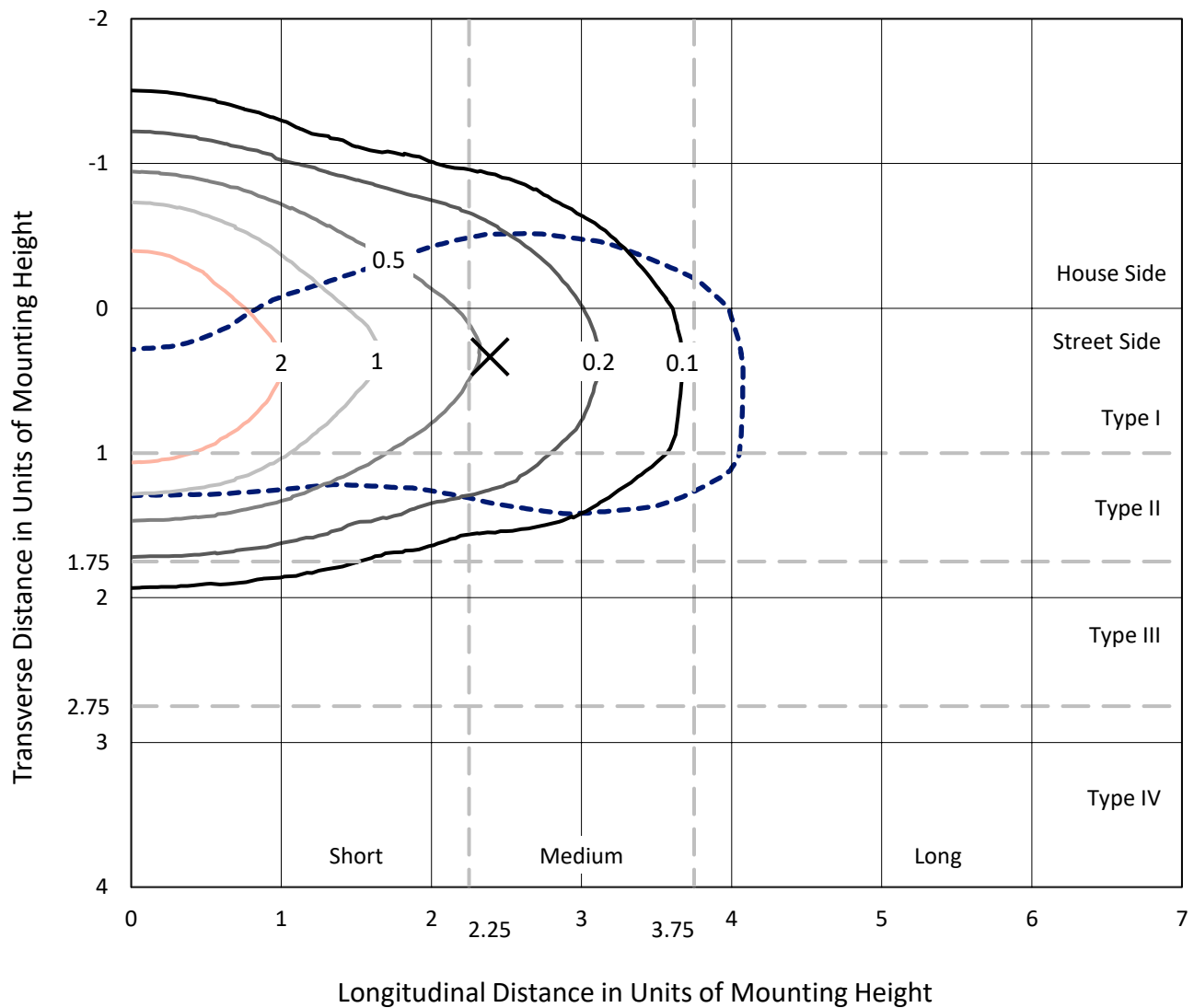


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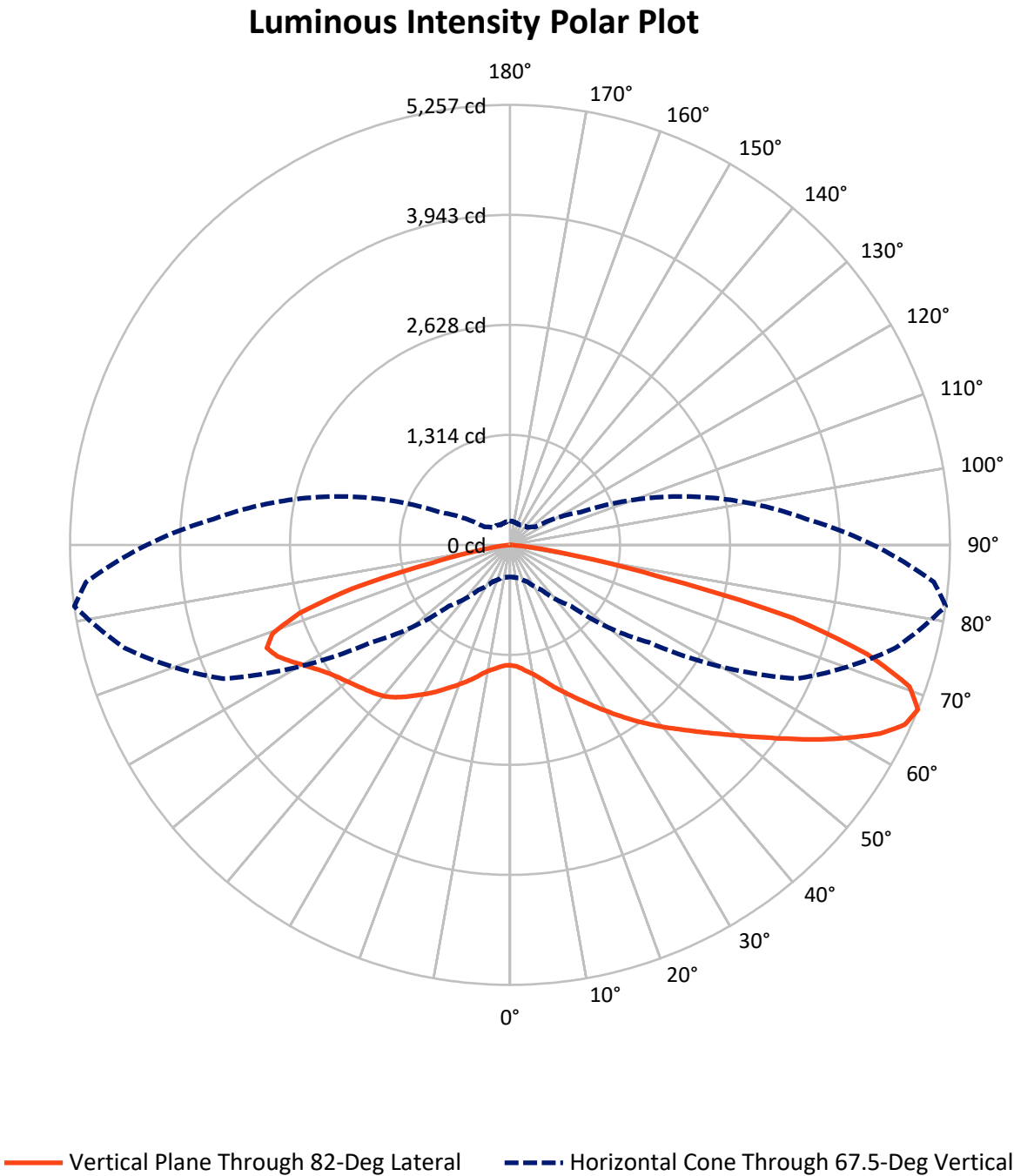
Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.4 fc
Type II - Medium - N/A

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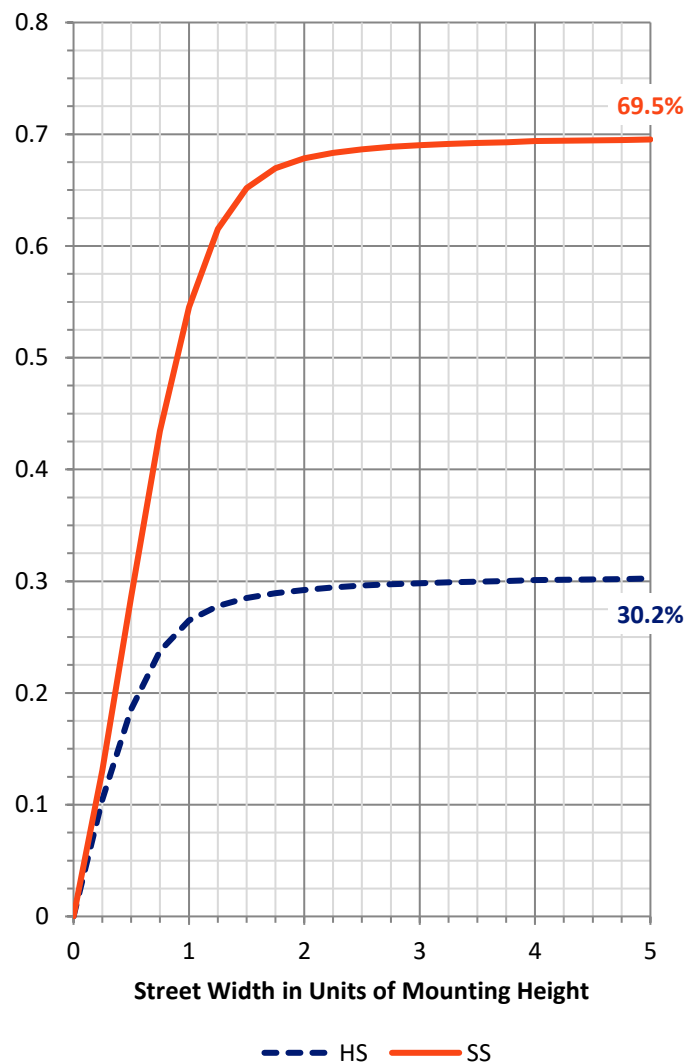
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3049.1	0.0	3049.1
	% Fixture	30.5	0.0	30.5
Street Side	Lumens	6962.9	0.0	6962.9
	% Fixture	69.5	0.0	69.5
Total	Lumens	10012.0	0.0	10012.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	148.7	1.5
10°-20°	535.8	5.4
20°-30°	1076.7	10.8
30°-40°	1691.4	16.9
40°-50°	2060.5	20.6
50°-60°	1946.9	19.4
60°-70°	1607.7	16.1
70°-80°	875.5	8.7
80°-90°	68.8	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°	10012.0	100.0
0°-180°	10012.0	100.0

Coefficient of Utilization



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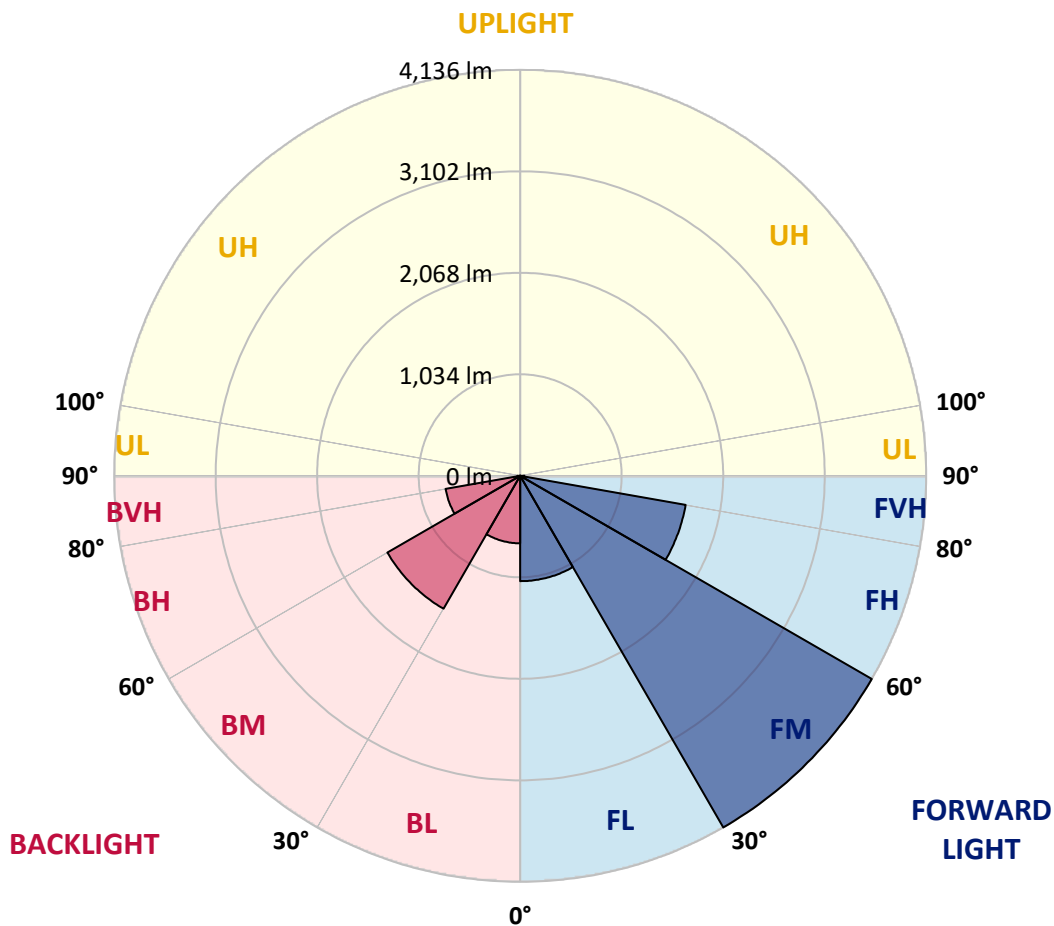
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1073.7	10.7			
FM	(30°-60°)	4136.4	41.3			
FH	(60°-80°)	1711.4	17.1			G1/1800
FVH	(80°-90°)	41.5	0.4			G1/100
BL	(0°-30°)	687.6	6.9	B2/1000		
BM	(30°-60°)	1562.4	15.6	B2/2500		
BH	(60°-80°)	771.7	7.7	B2/1000		G2/1000
BVH	(80°-90°)	27.3	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°	1439.2	1439.2	1439.2	1439.2	1439.2	1439.2	1439.2	1439.2	1439.2	1439.2	1439.2
2.5°	1504.6	1504.6	1516.3	1516.3	1506.1	1490.1	1485.7	1468.3	1452.3	1452.3	1453.8
5°	1648.6	1647.1	1655.8	1644.2	1619.5	1587.5	1565.7	1527.9	1495.9	1485.7	1484.3
7.5°	1824.5	1823.0	1827.4	1808.5	1762.0	1709.6	1666.0	1604.9	1552.6	1530.8	1525.0
10°	2020.7	2019.3	2014.9	1982.9	1920.4	1839.0	1773.6	1689.3	1610.8	1575.9	1568.6
12.5°	2246.1	2243.1	2233.0	2186.5	2100.7	1996.0	1901.5	1792.5	1687.8	1639.8	1623.8
15°	2497.6	2493.2	2474.3	2417.6	2302.8	2170.5	2048.3	1908.8	1780.9	1718.3	1696.5
17.5°	2762.1	2762.1	2733.1	2648.7	2520.8	2356.5	2205.3	2028.0	1878.3	1801.2	1775.0
20°	3031.1	3029.6	2993.3	2891.5	2740.3	2551.3	2359.4	2164.6	1978.6	1885.5	1853.5
22.5°	3314.6	3311.7	3266.6	3150.3	2970.0	2756.3	2532.4	2299.8	2089.0	1977.1	1936.4
25°	3640.2	3635.8	3580.6	3438.1	3224.4	2983.1	2727.2	2458.3	2215.5	2078.9	2030.9
27.5°	3986.2	3980.4	3915.0	3749.2	3515.2	3224.4	2942.4	2641.5	2355.1	2192.3	2138.5
30°	4294.4	4290.0	4218.8	4048.7	3779.8	3464.3	3147.4	2824.7	2501.9	2312.9	2246.1
32.5°	4527.0	4527.0	4463.0	4295.9	4016.7	3694.0	3353.8	2997.6	2654.6	2442.3	2363.8
35°	4668.0	4672.4	4617.1	4483.4	4220.3	3910.6	3567.5	3201.2	2817.4	2580.4	2496.1
37.5°	4688.4	4702.9	4670.9	4580.8	4361.3	4090.9	3776.9	3397.4	2986.0	2720.0	2625.5
40°	4593.9	4604.0	4605.5	4570.6	4419.4	4220.3	3961.5	3605.3	3164.8	2866.8	2757.8
42.5°	4404.9	4412.2	4425.2	4435.4	4377.3	4277.0	4102.5	3798.7	3355.3	3016.5	2888.6
45°	4160.7	4159.2	4181.0	4224.6	4221.7	4245.0	4181.0	3974.6	3553.0	3186.6	3034.0
47.5°	3795.8	3788.5	3865.5	3964.4	4013.8	4122.9	4182.5	4112.7	3768.1	3374.2	3199.7
50°	3224.4	3217.2	3385.8	3618.4	3763.8	3929.5	4102.5	4195.5	3993.5	3585.0	3380.0
52.5°	2529.5	2522.3	2736.0	3143.0	3459.9	3701.3	3941.1	4214.4	4207.2	3820.5	3583.5
55°	1881.2	1875.3	2083.2	2523.7	3036.9	3436.7	3743.4	4165.0	4407.8	4090.9	3830.7
57.5°	1325.8	1322.9	1503.2	1868.1	2493.2	3113.9	3553.0	4069.1	4592.4	4384.5	4109.8
60°	930.4	926.0	1056.9	1338.9	1885.5	2626.9	3364.0	3941.1	4730.5	4673.8	4406.3
62.5°	626.6	623.7	716.7	952.2	1338.9	2022.2	3077.6	3855.4	4809.0	4964.6	4705.8
65°	475.4	473.9	516.1	645.5	947.8	1452.3	2622.6	3845.2	4819.2	5182.6	4960.2
67.5°	383.8	385.2	408.5	482.6	655.6	1032.2	2033.8	3781.2	4765.4	5256.8	5083.8
70°	314.0	314.0	324.2	373.6	484.1	696.3	1420.3	3490.5	4615.7	5063.4	4937.0
72.5°	239.9	241.3	273.3	302.4	364.9	488.5	910.1	2888.6	4262.4	4464.5	4368.5
75°	190.4	189.0	207.9	248.6	283.5	348.9	558.2	2071.6	3627.1	3489.0	3428.0
77.5°	136.7	135.2	149.7	184.6	215.2	247.1	332.9	1045.3	1972.7	1812.8	1767.8
80°	93.0	90.1	103.2	127.9	142.5	145.4	162.8	401.2	860.6	811.2	801.0
82.5°	48.0	48.0	55.2	72.7	74.1	75.6	72.7	129.4	284.9	266.0	254.4
85°	18.9	18.9	20.4	24.7	24.7	26.2	26.2	33.4	30.5	29.1	27.6
87.5°	1.5	1.5	2.9	2.9	4.4	4.4	4.4	5.8	7.3	7.3	7.3
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°	1439.2	1439.2	1439.2	1439.2	1439.2	1439.2	1439.2	1439.2	1439.2	1439.2	1439.2
2.5°	1450.8	1445.0	1426.1	1421.8	1418.9	1414.5	1416.0	1405.8	1401.4	1402.9	1397.1
5°	1477.0	1466.8	1443.6	1433.4	1430.5	1426.1	1430.5	1423.2	1416.0	1418.9	1416.0
7.5°	1513.4	1498.8	1469.7	1459.6	1458.1	1453.8	1459.6	1453.8	1447.9	1450.8	1445.0
10°	1551.2	1532.3	1500.3	1490.1	1490.1	1488.6	1494.5	1485.7	1479.9	1481.4	1478.5
12.5°	1606.4	1581.7	1546.8	1538.1	1533.7	1538.1	1539.5	1527.9	1517.7	1519.2	1514.8
15°	1673.3	1645.7	1607.9	1594.8	1591.9	1590.4	1584.6	1570.1	1557.0	1555.5	1551.2
17.5°	1746.0	1711.1	1666.0	1652.9	1639.8	1635.5	1620.9	1602.0	1581.7	1581.7	1575.9
20°	1815.7	1776.5	1722.7	1703.8	1684.9	1667.5	1642.7	1612.2	1586.0	1581.7	1575.9
22.5°	1891.3	1844.8	1782.3	1754.7	1721.2	1686.4	1644.2	1603.5	1570.1	1562.8	1558.4
25°	1975.7	1917.5	1843.4	1802.7	1748.9	1695.1	1632.6	1580.2	1541.0	1529.4	1526.4
27.5°	2068.7	1998.9	1908.8	1849.2	1770.7	1686.4	1606.4	1543.9	1495.9	1481.4	1477.0
30°	2163.2	2080.3	1968.4	1881.2	1770.7	1658.7	1558.4	1485.7	1430.5	1410.1	1407.2
32.5°	2257.7	2164.6	2022.2	1898.6	1753.2	1612.2	1495.9	1410.1	1347.6	1322.9	1328.7
35°	2371.1	2257.7	2071.6	1905.9	1724.2	1555.5	1424.7	1324.4	1260.4	1238.6	1243.0
37.5°	2488.8	2350.7	2110.9	1900.1	1683.5	1491.6	1344.7	1247.3	1167.4	1129.6	1133.9
40°	2590.6	2435.0	2138.5	1879.7	1631.1	1418.9	1266.2	1138.3	1027.8	991.5	987.1
42.5°	2686.5	2497.6	2153.0	1849.2	1571.5	1334.5	1154.3	990.0	879.5	834.5	835.9
45°	2786.9	2558.6	2147.2	1808.5	1497.4	1235.7	1010.4	844.6	747.2	706.5	708.0
47.5°	2901.7	2624.0	2141.4	1764.9	1407.2	1107.8	872.3	716.7	632.4	603.3	600.4
50°	3023.8	2696.7	2134.1	1711.1	1306.9	965.3	735.6	597.5	526.3	507.4	503.0
52.5°	3161.9	2775.2	2129.8	1647.1	1186.3	814.1	613.5	492.8	444.8	431.8	430.3
55°	3327.7	2866.8	2135.6	1570.1	1040.9	671.6	510.3	424.5	392.5	385.2	383.8
57.5°	3529.7	2984.6	2153.0	1479.9	888.2	548.1	434.7	382.3	362.0	356.2	356.2
60°	3749.2	3118.3	2185.0	1378.2	735.6	452.1	385.2	348.9	340.2	347.4	347.4
62.5°	3986.2	3275.3	2241.7	1254.6	593.1	382.3	346.0	321.3	315.5	330.0	331.5
65°	4205.7	3428.0	2278.0	1106.3	471.0	331.5	315.5	293.7	296.6	311.1	309.7
67.5°	4340.9	3554.4	2227.2	920.2	373.6	293.7	283.5	264.6	271.9	283.5	284.9
70°	4258.1	3483.2	1975.7	694.9	292.2	255.9	248.6	237.0	242.8	257.3	263.1
72.5°	3852.5	3119.8	1536.6	469.6	235.5	215.2	218.1	212.2	219.5	232.6	245.7
75°	3127.0	2358.0	1030.7	300.9	186.1	183.2	187.5	183.2	186.1	199.2	206.4
77.5°	1632.6	1149.9	513.2	187.5	138.1	142.5	149.7	151.2	159.9	162.8	165.7
80°	761.8	517.5	213.7	104.7	91.6	100.3	114.8	116.3	119.2	123.6	125.0
82.5°	248.6	155.6	98.9	56.7	52.3	56.7	74.1	88.7	90.1	98.9	98.9
85°	26.2	16.0	21.8	23.3	20.4	24.7	33.4	32.0	14.5	8.7	8.7
87.5°	7.3	5.8	7.3	7.3	5.8	5.8	4.4	1.5	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)