

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: P836024

Luminaire Tested: **ARCH3-130-722-U-T4W-HSS**

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P836024
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-27)
Test Lab: INNOVATION CENTER
Issue Date: 5/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH3-130-722-U-T4W-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2200K, 1035mA LIGHTSQUARE WITH 40 LEDS AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11556 lumens
Efficiency: N/A
Efficacy: 87.1 lumens/watt
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 132.6
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

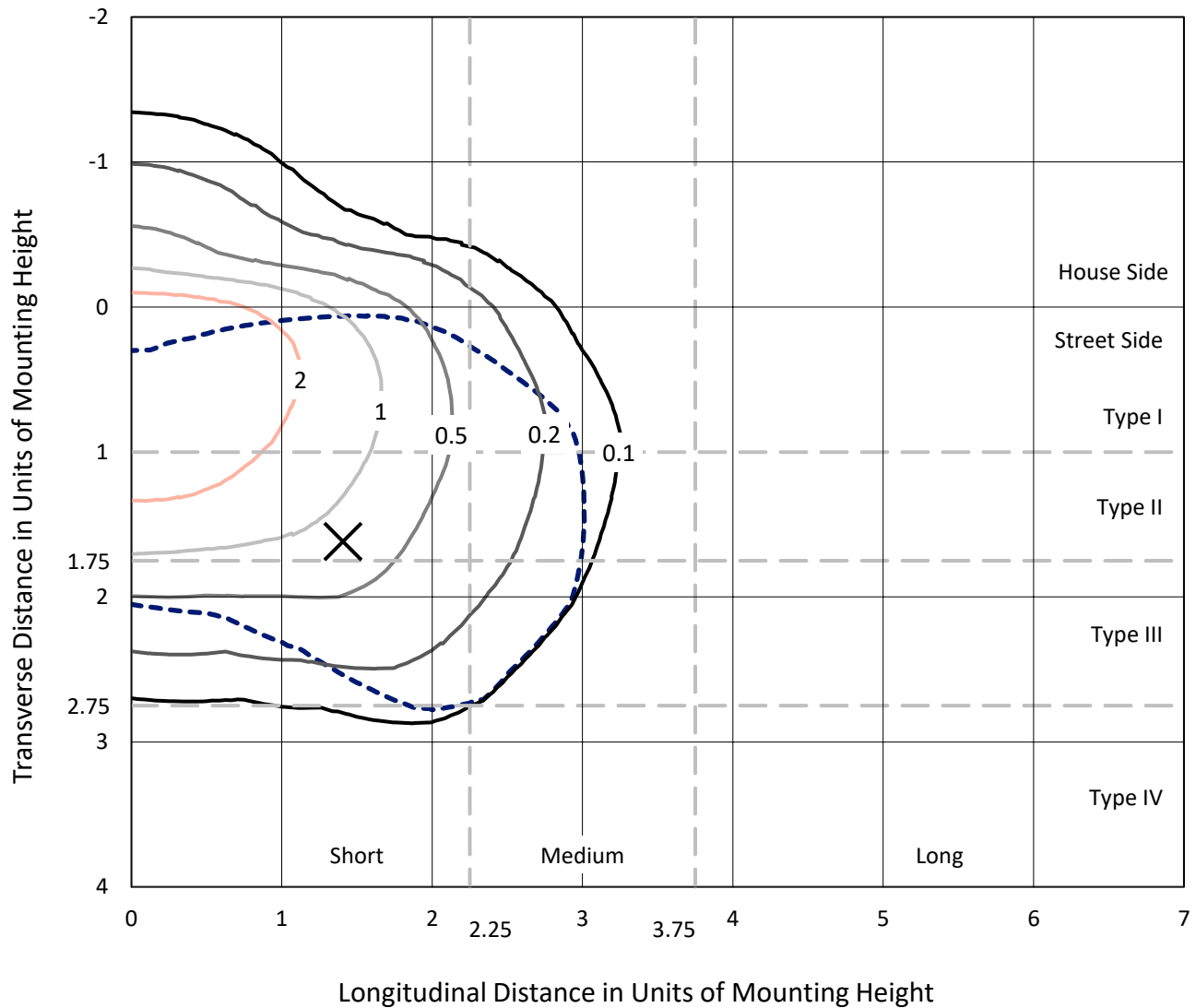


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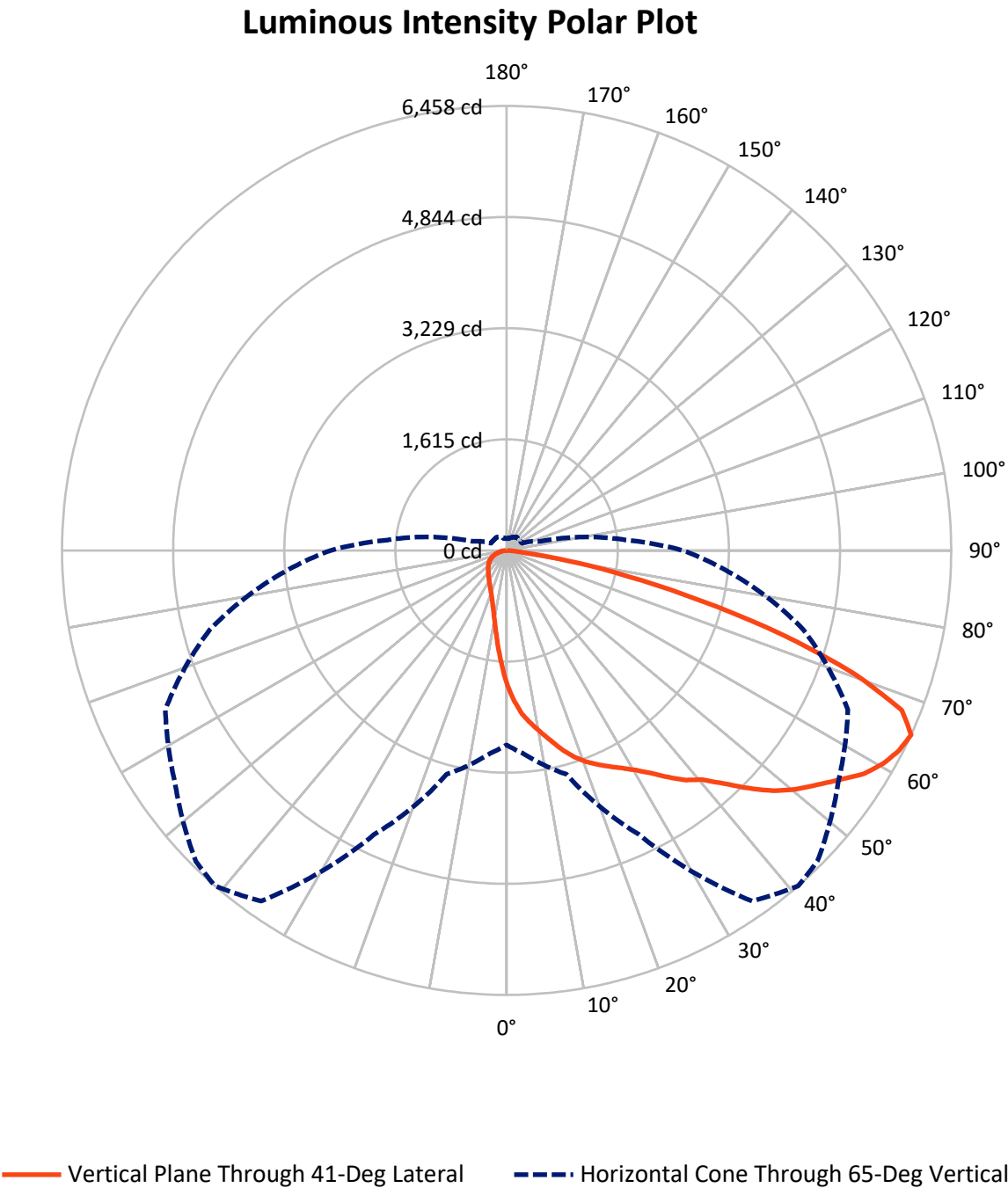
Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.6 fc
Type III - Short - N/A

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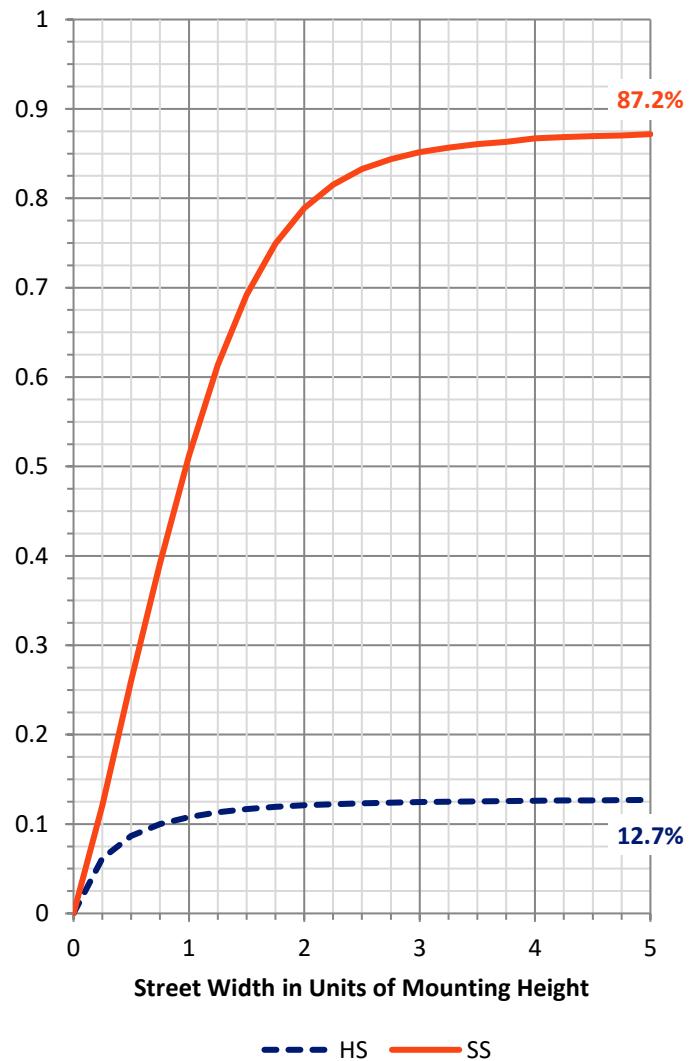
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1483.6	0.0	1483.6
	% Fixture	12.8	0.0	12.8
Street Side	Lumens	10072.4	0.0	10072.4
	% Fixture	87.2	0.0	87.2
Total	Lumens	11556.0	0.0	11556.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	183.5	1.6
10°-20°	550.1	4.8
20°-30°	946.4	8.2
30°-40°	1435.4	12.4
40°-50°	2102.9	18.2
50°-60°	2655.5	23.0
60°-70°	2490.1	21.5
70°-80°	1109.8	9.6
80°-90°	82.2	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°	11556.0	100.0
0°-180°	11556.0	100.0

Coefficient of Utilization



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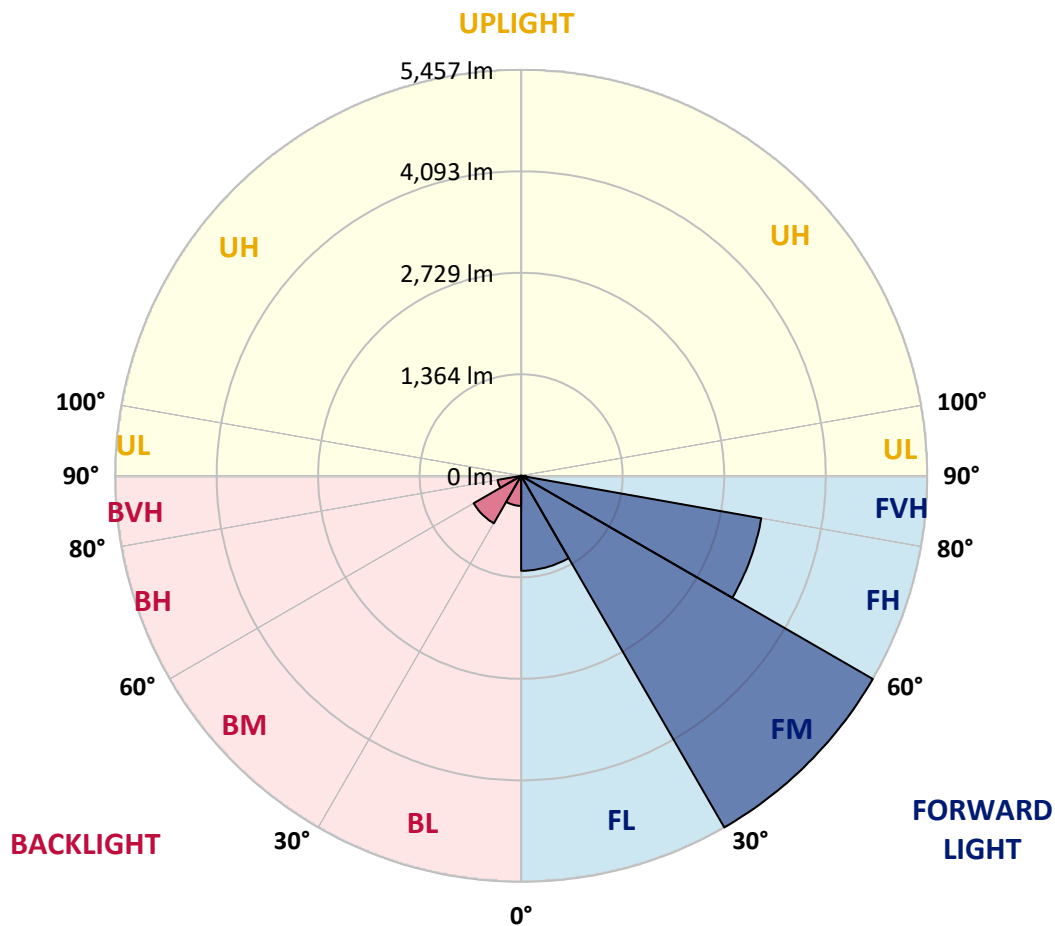
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1276.2	11.0			
FM	(30°-60°)	5457.2	47.2			
FH	(60°-80°)	3277.6	28.4			G2/5000
FVH	(80°-90°)	61.4	0.5			G1/100
BL	(0°-30°)	403.8	3.5	B1/500		
BM	(30°-60°)	736.7	6.4	B1/1000		
BH	(60°-80°)	322.3	2.8	B1/500		G1/500
BVH	(80°-90°)	20.8	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	41°	45°	55°	65°	75°	85°
0°	1969.1	1969.1	1969.1	1969.1	1969.1	1969.1	1969.1	1969.1	1969.1	1969.1	1969.1
2.5°	2271.3	2264.0	2259.1	2232.3	2232.3	2195.7	2198.2	2164.0	2122.6	2056.8	1986.1
5°	2485.7	2476.0	2463.8	2437.0	2427.2	2390.7	2385.8	2337.1	2266.4	2151.9	2025.1
7.5°	2673.4	2663.6	2646.6	2607.6	2580.8	2536.9	2524.7	2461.4	2383.4	2242.0	2064.1
10°	2844.0	2836.6	2814.7	2766.0	2729.4	2675.8	2653.9	2568.6	2471.1	2315.1	2095.8
12.5°	3017.0	3007.2	2978.0	2936.6	2892.7	2829.3	2802.5	2692.9	2568.6	2395.6	2142.1
15°	3177.8	3163.2	3141.3	3097.4	3058.4	2997.5	2968.2	2839.1	2688.0	2485.7	2203.0
17.5°	3282.6	3270.4	3250.9	3226.6	3194.9	3148.6	3119.3	2992.6	2807.4	2573.5	2266.4
20°	3346.0	3341.1	3333.8	3319.2	3304.5	3272.9	3250.9	3131.5	2936.6	2658.7	2327.3
22.5°	3394.7	3389.8	3387.4	3387.4	3389.8	3377.7	3363.0	3260.7	3060.9	2748.9	2383.4
25°	3470.3	3467.8	3463.0	3458.1	3475.1	3477.6	3472.7	3402.0	3216.8	2868.3	2454.0
27.5°	3575.1	3567.7	3558.0	3553.1	3570.2	3582.4	3592.1	3543.4	3382.5	2990.2	2534.5
30°	3735.9	3714.0	3689.6	3672.5	3684.7	3704.2	3726.1	3696.9	3553.1	3141.3	2617.3
32.5°	3926.0	3899.2	3843.1	3811.4	3843.1	3857.7	3874.8	3860.2	3731.0	3304.5	2700.2
35°	4157.5	4125.8	4067.3	4021.0	4077.1	4045.4	4038.1	4023.5	3899.2	3465.4	2792.8
37.5°	4542.5	4496.2	4403.6	4301.3	4301.3	4233.0	4206.2	4162.4	4050.3	3609.2	2883.0
40°	4988.5	4927.6	4808.2	4657.1	4518.2	4376.8	4359.8	4328.1	4228.2	3774.9	2985.3
42.5°	5478.3	5361.4	5195.6	5012.9	4788.7	4627.8	4588.8	4498.7	4401.2	3943.0	3087.7
45°	6021.8	5778.1	5536.8	5444.2	5073.8	4927.6	4854.5	4691.2	4581.5	4118.5	3194.9
47.5°	6109.5	5919.4	5758.6	5744.0	5339.4	5217.6	5134.7	4900.8	4776.5	4306.1	3307.0
50°	6060.8	5946.2	5963.3	5904.8	5534.4	5454.0	5390.6	5125.0	4969.0	4486.5	3409.3
52.5°	5856.1	5919.4	6016.9	5909.7	5719.6	5653.8	5622.1	5366.2	5149.3	4652.2	3501.9
55°	5612.4	5656.2	5865.8	5997.4	5934.1	5875.6	5846.3	5646.5	5327.2	4791.1	3587.2
57.5°	5256.6	5237.1	5468.6	5982.8	6158.3	6124.1	6092.5	5921.9	5493.0	4891.0	3640.9
60°	4722.9	4681.4	4973.9	5690.4	6231.4	6285.0	6270.4	6104.6	5619.7	4888.6	3618.9
62.5°	3799.3	3901.6	4306.1	5212.7	6263.0	6399.5	6372.7	6119.3	5661.1	4747.2	3480.0
65°	2824.5	2970.7	3367.9	4554.7	6219.2	6458.0	6384.9	5880.4	5468.6	4467.0	3175.4
67.5°	2034.9	2164.0	2454.0	3748.1	5797.6	6189.9	6104.6	5490.5	5025.1	4069.8	2753.8
70°	1391.5	1484.1	1681.5	2729.4	4949.5	5351.6	5298.0	4908.1	4325.6	3597.0	2237.2
72.5°	982.1	1021.1	1147.8	1800.9	3760.3	4198.9	4135.6	4038.1	3475.1	2990.2	1740.0
75°	736.0	760.3	828.6	1164.9	2536.9	2909.8	2851.3	2907.3	2595.4	2264.0	1267.2
77.5°	277.8	302.2	470.3	743.3	1501.2	1786.3	1727.8	1761.9	1442.7	1142.9	631.2
80°	75.5	80.4	156.0	353.4	682.4	889.5	809.1	694.5	536.1	526.4	333.9
82.5°	31.7	36.6	70.7	190.1	243.7	243.7	204.7	253.4	204.7	246.1	160.8
85°	12.2	14.6	17.1	48.7	31.7	34.1	36.6	48.7	41.4	51.2	36.6
87.5°	0.0	0.0	0.0	2.4	2.4	4.9	2.4	4.9	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°	1969.1	1969.1	1969.1	1969.1	1969.1	1969.1	1969.1	1969.1	1969.1	1969.1	1969.1
2.5°	1956.9	1930.1	1891.1	1827.7	1761.9	1725.4	1679.1	1671.8	1623.0	1618.2	1598.7
5°	1969.1	1913.0	1813.1	1691.3	1571.9	1479.2	1411.0	1374.5	1303.8	1303.8	1284.3
7.5°	1978.8	1891.1	1730.3	1549.9	1386.6	1262.4	1169.8	1130.8	1067.4	1062.5	1047.9
10°	1981.3	1864.3	1640.1	1406.1	1206.3	1079.6	989.4	945.5	889.5	884.6	874.9
12.5°	2000.8	1849.7	1559.7	1281.9	1077.1	940.7	852.9	816.4	772.5	767.6	757.9
15°	2032.4	1849.7	1491.4	1177.1	962.6	835.9	760.3	726.2	694.5	689.7	684.8
17.5°	2064.1	1844.8	1423.2	1079.6	867.6	753.0	687.2	660.4	636.1	633.6	628.7
20°	2093.4	1842.4	1355.0	996.7	794.5	684.8	633.6	609.2	589.7	589.7	587.3
22.5°	2122.6	1837.5	1289.2	918.7	731.1	633.6	589.7	562.9	548.3	548.3	545.9
25°	2166.5	1837.5	1228.2	852.9	679.9	594.6	550.8	531.3	519.1	516.6	516.6
27.5°	2217.7	1852.1	1174.6	794.5	636.1	555.6	521.5	502.0	487.4	482.5	485.0
30°	2273.7	1864.3	1125.9	743.3	594.6	526.4	489.8	470.3	455.7	450.8	453.3
32.5°	2329.8	1878.9	1082.0	697.0	553.2	499.6	463.0	441.1	426.5	424.0	424.0
35°	2390.7	1893.5	1038.2	658.0	519.1	472.8	438.7	414.3	404.5	399.7	402.1
37.5°	2451.6	1917.9	996.7	621.4	494.7	448.4	416.7	392.4	385.0	382.6	382.6
40°	2524.7	1954.5	979.7	597.1	472.8	426.5	399.7	375.3	368.0	368.0	368.0
42.5°	2585.6	1983.7	965.0	570.3	455.7	407.0	382.6	363.1	358.2	355.8	358.2
45°	2646.6	2010.5	945.5	545.9	433.8	387.5	368.0	348.5	343.6	343.6	343.6
47.5°	2707.5	2025.1	918.7	521.5	414.3	370.4	353.4	336.3	331.4	331.4	331.4
50°	2756.2	2037.3	879.8	494.7	392.4	355.8	338.7	321.7	316.8	316.8	316.8
52.5°	2805.0	2039.8	838.3	463.0	370.4	338.7	324.1	307.1	302.2	299.7	299.7
55°	2848.8	2037.3	789.6	426.5	346.1	319.2	307.1	292.4	282.7	272.9	277.8
57.5°	2880.5	2034.9	733.5	389.9	321.7	299.7	294.9	275.4	255.9	231.5	236.4
60°	2868.3	2008.1	672.6	343.6	294.9	280.3	280.3	253.4	219.3	207.1	209.6
62.5°	2790.3	1932.5	609.2	294.9	268.1	260.8	258.3	229.1	202.3	190.1	192.5
65°	2556.4	1742.4	516.6	251.0	241.3	238.8	238.8	212.0	187.6	173.0	175.5
67.5°	2200.6	1462.2	421.6	212.0	214.5	219.3	219.3	195.0	170.6	156.0	158.4
70°	1764.4	1142.9	336.3	182.8	185.2	192.5	197.4	175.5	153.5	138.9	138.9
72.5°	1328.2	867.6	270.5	153.5	165.7	165.7	173.0	156.0	134.0	119.4	121.8
75°	962.6	621.4	214.5	129.2	143.8	141.3	141.3	131.6	114.5	104.8	104.8
77.5°	455.7	326.6	170.6	92.6	112.1	109.7	112.1	104.8	97.5	87.7	90.2
80°	224.2	160.8	109.7	65.8	78.0	80.4	87.7	82.9	80.4	73.1	73.1
82.5°	107.2	63.4	51.2	46.3	53.6	56.1	60.9	60.9	63.4	58.5	58.5
85°	29.2	17.1	21.9	29.2	34.1	36.6	41.4	43.9	43.9	41.4	43.9
87.5°	7.3	7.3	9.7	14.6	17.1	19.5	21.9	21.9	9.7	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)