

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: P799362

Luminaire Tested: **ARCH2-110-727-U-T2R-HSS**

Issue Date: 4/4/2024

Test Information

Test Method: LM-79-08
Report Number: P799362
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2403-329-2)
Test Lab: INNOVATION CENTER
Issue Date: 4/4/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH2-110-727-U-T2R-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 10 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8987 lumens
Efficiency: N/A
Efficacy: 82.1 lumens/watt
Luminous Opening: Rectangular (W 0.67' x L: 0.33' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

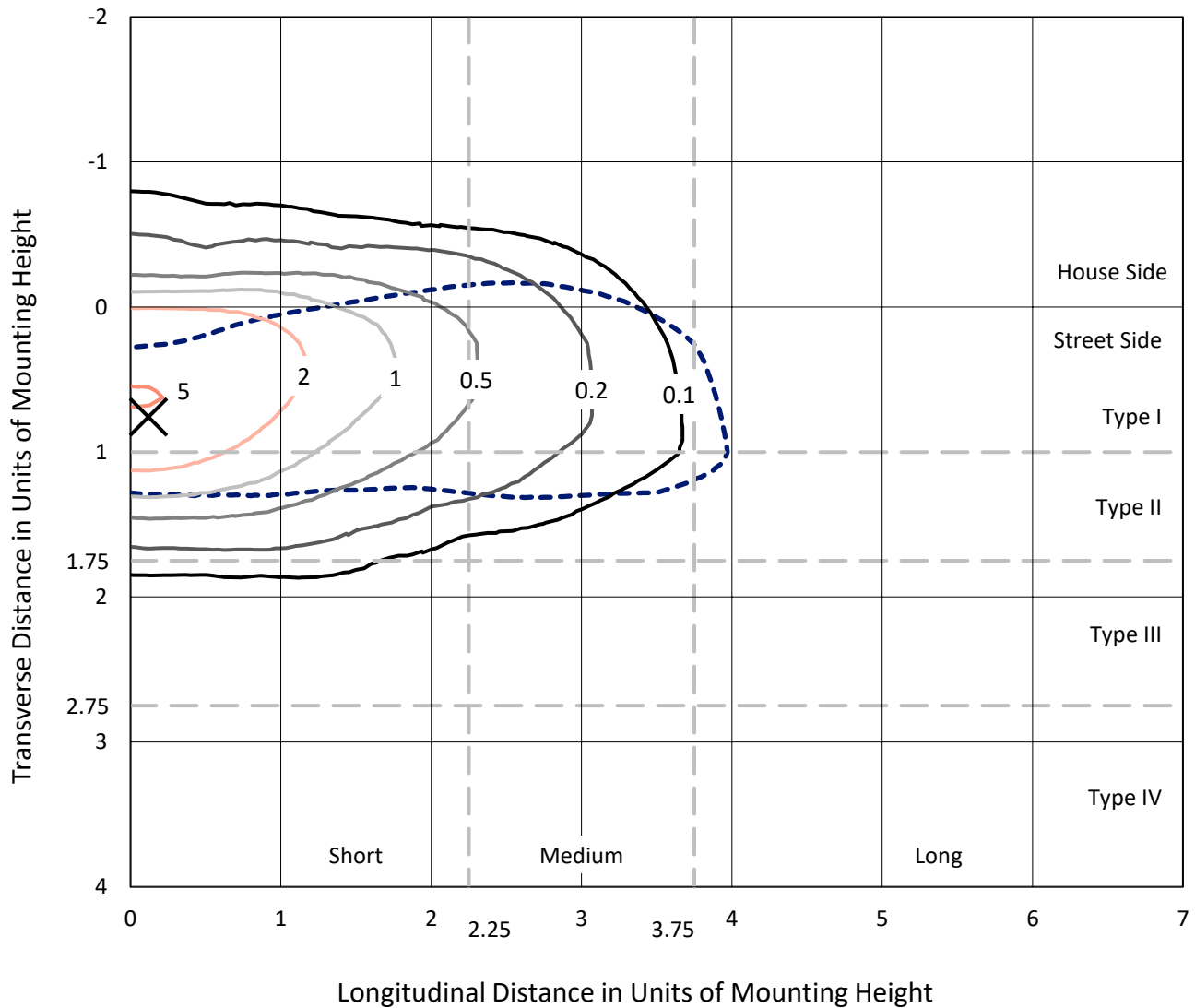
Input Watts (W): 109.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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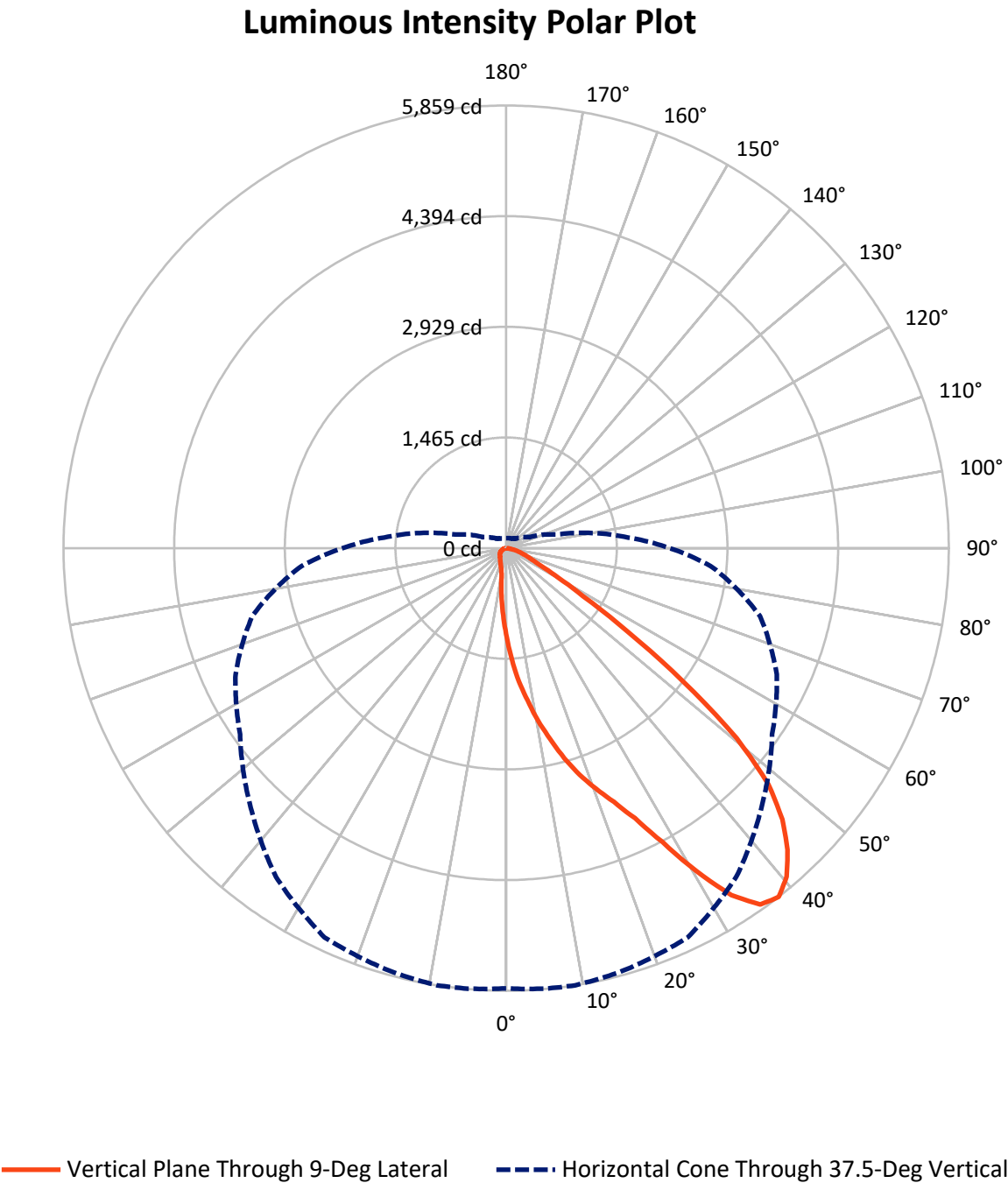
Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.3 fc
Type II - Short - N/A

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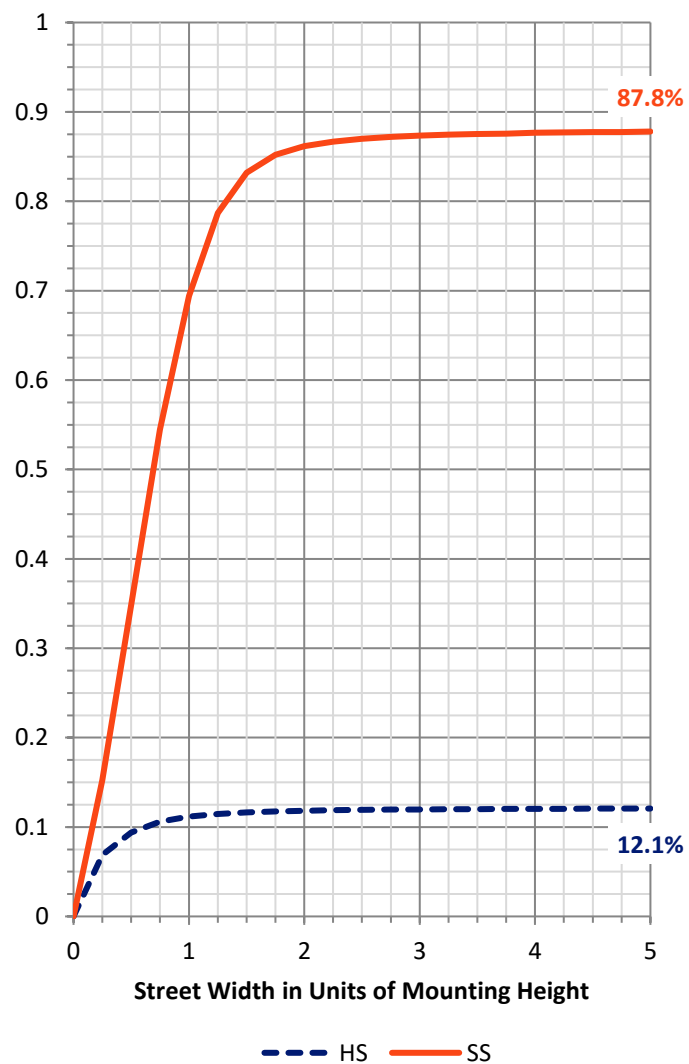
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1093.0	0.0	1093.0
	% Fixture	12.2	0.0	12.2
Street Side	Lumens	7894.0	0.0	7894.0
	% Fixture	87.8	0.0	87.8
Total	Lumens	8987.0	0.0	8987.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	119.4	1.3
10°-20°	415.0	4.6
20°-30°	852.8	9.5
30°-40°	1507.4	16.8
40°-50°	2002.4	22.3
50°-60°	1899.1	21.1
60°-70°	1448.9	16.1
70°-80°	702.4	7.8
80°-90°	39.5	0.4
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°	8987.0	100.0
0°-180°	8987.0	100.0

Coefficient of Utilization



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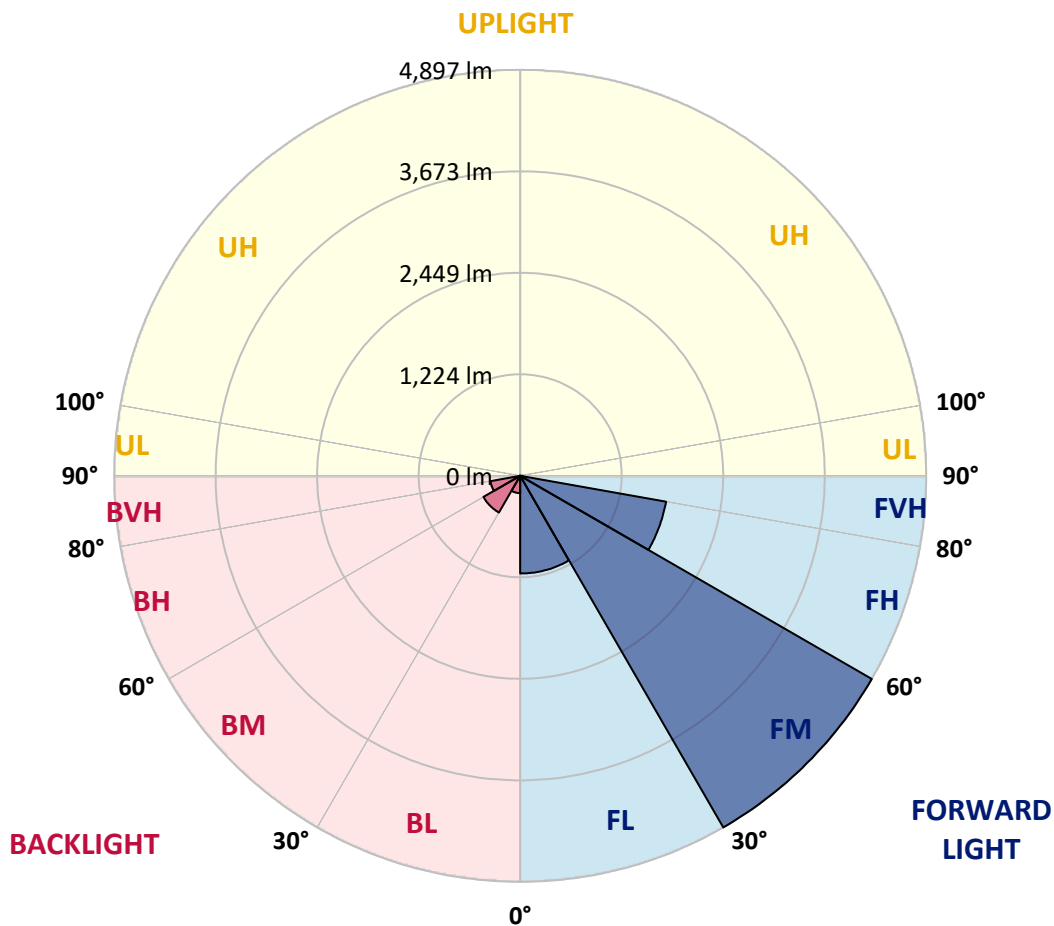
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1178.6	13.1			
FM	(30°-60°)	4897.5	54.5			
FH	(60°-80°)	1786.6	19.9			G1/1800
FVH	(80°-90°)	31.3	0.3			G1/100
BL	(0°-30°)	208.6	2.3	B1/500		
BM	(30°-60°)	511.4	5.7	B1/1000		
BH	(60°-80°)	364.7	4.1	B1/500		G1/500
BVH	(80°-90°)	8.2	0.1			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	9°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1188.0	1188.0	1188.0	1188.0	1188.0	1188.0	1188.0	1188.0	1188.0	1188.0	1188.0
2.5°	1472.1	1446.2	1475.7	1472.1	1446.2	1429.6	1378.0	1361.4	1300.5	1256.2	1217.5
5°	1774.6	1748.8	1774.6	1767.2	1730.3	1689.7	1604.9	1549.5	1440.7	1344.8	1258.1
7.5°	2025.5	2025.5	2036.5	2038.4	1994.1	1931.4	1826.2	1743.2	1590.1	1442.5	1304.2
10°	2296.6	2298.5	2322.4	2305.8	2246.8	2162.0	2029.1	1924.0	1739.5	1545.8	1348.5
12.5°	2586.2	2588.1	2595.5	2588.1	2518.0	2409.1	2248.7	2110.3	1898.2	1663.9	1409.3
15°	2875.9	2877.7	2886.9	2874.0	2796.5	2669.2	2486.6	2316.9	2066.0	1796.7	1483.1
17.5°	3147.0	3150.7	3158.1	3141.5	3060.3	2909.1	2722.7	2518.0	2245.0	1938.8	1566.1
20°	3390.5	3394.2	3399.7	3377.6	3296.4	3145.2	2944.1	2730.1	2427.6	2084.5	1656.5
22.5°	3635.9	3639.5	3648.8	3619.3	3528.9	3355.5	3158.1	2936.7	2621.3	2245.0	1761.7
25°	3949.5	3953.1	3960.5	3918.1	3794.5	3591.6	3383.1	3156.2	2831.6	2425.8	1890.8
27.5°	4408.8	4405.1	4405.1	4327.6	4115.5	3851.7	3610.0	3379.5	3058.5	2619.4	2032.8
30°	4976.9	4967.7	4962.2	4857.0	4554.5	4145.0	3842.5	3587.9	3276.1	2824.2	2185.9
32.5°	5486.1	5486.1	5475.0	5364.3	5043.3	4539.8	4089.7	3790.8	3486.4	3030.8	2344.6
35°	5786.8	5799.7	5794.1	5711.1	5476.8	4964.0	4423.5	4034.3	3707.8	3246.6	2534.6
37.5°	5827.3	5853.2	5858.7	5808.9	5685.3	5310.8	4794.3	4298.1	3951.3	3479.1	2719.1
40°	5663.2	5718.5	5718.5	5711.1	5666.9	5475.0	5106.1	4604.3	4202.2	3720.7	2905.4
42.5°	5410.4	5467.6	5460.2	5487.9	5476.8	5436.3	5281.3	4890.2	4453.1	3969.7	3075.1
45°	5080.2	5139.3	5124.5	5174.3	5196.5	5240.7	5262.9	5089.5	4700.2	4240.9	3265.1
47.5°	4550.8	4650.4	4672.6	4761.1	4853.3	4991.7	5096.8	5161.4	4930.8	4532.4	3471.7
50°	3768.7	3908.9	3953.1	4139.5	4392.2	4678.1	4847.8	5072.9	5093.2	4831.2	3694.9
52.5°	2698.8	2861.1	2929.3	3235.6	3755.8	4253.8	4560.0	4877.3	5155.9	5117.1	3936.5
55°	1745.1	1883.4	1949.8	2237.6	2929.3	3711.5	4220.6	4624.6	5120.8	5379.1	4213.2
57.5°	1075.4	1154.8	1199.0	1446.2	2082.6	3016.0	3776.1	4392.2	5013.8	5606.0	4501.0
60°	725.0	771.1	793.2	909.4	1414.9	2254.2	3165.5	4148.7	4873.6	5759.1	4763.0
62.5°	481.5	496.2	518.4	590.3	933.4	1582.7	2431.3	3713.3	4768.5	5768.3	4956.6
65°	372.6	380.0	389.2	420.6	575.5	1106.8	1710.0	3008.7	4611.7	5572.8	5017.5
67.5°	293.3	300.7	311.8	328.4	416.9	750.8	1164.0	2204.4	4290.7	5266.6	4917.9
70°	230.6	236.1	243.5	258.3	324.7	544.2	769.2	1464.7	3643.2	4975.1	4604.3
72.5°	182.6	188.2	195.5	210.3	263.8	398.5	527.6	913.1	2809.4	4619.1	4001.1
75°	143.9	147.6	153.1	167.9	212.1	309.9	357.9	546.0	1909.2	3967.9	3117.5
77.5°	71.9	88.5	101.5	116.2	155.0	214.0	238.0	302.5	806.1	2036.5	1486.8
80°	42.4	51.7	55.3	64.6	101.5	129.1	129.1	121.7	254.6	782.1	606.9
82.5°	24.0	33.2	35.0	36.9	60.9	73.8	59.0	44.3	51.7	261.9	177.1
85°	7.4	11.1	12.9	14.8	20.3	22.1	20.3	18.4	14.8	25.8	16.6
87.5°	0.0	0.0	0.0	0.0	1.8	3.7	3.7	3.7	5.5	5.5	5.5
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°	1188.0	1188.0	1188.0	1188.0	1188.0	1188.0	1188.0	1188.0	1188.0	1188.0	1188.0
2.5°	1195.4	1171.4	1125.3	1082.8	1042.2	1012.7	985.1	959.2	940.8	926.0	924.2
5°	1212.0	1164.0	1075.4	992.4	916.8	854.1	800.6	758.2	726.8	704.7	702.8
7.5°	1234.1	1160.3	1025.6	902.0	789.5	699.1	621.7	564.5	523.9	507.3	494.4
10°	1252.5	1156.6	975.8	811.7	664.1	549.7	457.5	400.3	370.8	359.7	354.2
12.5°	1283.9	1160.3	933.4	728.6	555.2	420.6	350.5	319.1	306.2	297.0	295.1
15°	1330.0	1176.9	892.8	647.5	444.6	339.4	298.8	278.5	265.6	263.8	261.9
17.5°	1376.1	1191.7	855.9	564.5	368.9	295.1	267.5	250.9	241.7	239.8	239.8
20°	1429.6	1210.1	815.3	485.2	315.4	265.6	243.5	230.6	219.5	217.7	217.7
22.5°	1492.3	1235.9	776.6	415.1	280.4	243.5	225.1	210.3	201.1	199.2	199.2
25°	1577.2	1274.7	745.2	363.4	256.4	225.1	208.4	195.5	188.2	184.5	184.5
27.5°	1671.3	1328.2	723.1	332.0	239.8	210.3	193.7	182.6	175.2	171.6	171.6
30°	1776.4	1387.2	708.4	319.1	230.6	197.4	182.6	171.6	162.3	160.5	160.5
32.5°	1892.6	1455.5	699.1	321.0	228.7	188.2	171.6	160.5	153.1	149.4	149.4
35°	2021.8	1531.1	693.6	332.0	232.4	180.8	162.3	151.3	143.9	140.2	140.2
37.5°	2165.7	1619.6	693.6	343.1	241.7	178.9	153.1	142.0	136.5	132.8	132.8
40°	2300.3	1713.7	701.0	356.0	250.9	178.9	145.7	136.5	129.1	125.4	125.4
42.5°	2405.5	1767.2	706.5	368.9	256.4	177.1	138.4	129.1	123.6	119.9	119.9
45°	2525.4	1824.4	695.4	374.5	256.4	173.4	132.8	123.6	118.1	114.4	114.4
47.5°	2658.2	1894.5	693.6	378.2	250.9	166.0	127.3	118.1	114.4	110.7	110.7
50°	2792.8	1972.0	697.3	376.3	243.5	155.0	119.9	114.4	108.8	105.1	105.1
52.5°	2946.0	2053.1	704.7	372.6	226.9	142.0	114.4	108.8	103.3	99.6	97.8
55°	3115.7	2141.7	719.4	365.2	204.8	129.1	108.8	103.3	95.9	92.2	90.4
57.5°	3311.2	2250.5	736.0	350.5	180.8	118.1	103.3	95.9	84.9	79.3	77.5
60°	3497.5	2374.1	754.5	315.4	156.8	107.0	97.8	86.7	75.6	71.9	70.1
62.5°	3672.8	2495.8	763.7	252.7	132.8	97.8	92.2	79.3	68.3	64.6	62.7
65°	3785.3	2628.7	743.4	171.6	108.8	90.4	84.9	73.8	62.7	57.2	57.2
67.5°	3792.7	2691.4	673.3	112.5	88.5	81.2	77.5	66.4	55.3	51.7	49.8
70°	3606.3	2597.3	514.7	88.5	73.8	70.1	70.1	59.0	48.0	44.3	42.4
72.5°	3178.4	2300.3	328.4	71.9	62.7	59.0	59.0	49.8	42.4	36.9	35.0
75°	2508.8	1774.6	175.2	59.0	51.7	49.8	46.1	40.6	35.0	31.4	29.5
77.5°	1152.9	782.1	81.2	42.4	38.7	38.7	35.0	29.5	27.7	24.0	24.0
80°	455.6	265.6	40.6	27.7	25.8	25.8	25.8	20.3	20.3	16.6	14.8
82.5°	125.4	55.3	20.3	16.6	16.6	16.6	14.8	12.9	12.9	11.1	11.1
85°	12.9	9.2	9.2	9.2	9.2	7.4	7.4	5.5	3.7	3.7	3.7
87.5°	5.5	5.5	5.5	5.5	5.5	3.7	1.8	0.0	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)