

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: P1211678

Luminaire Tested: **ARCH4-80-730-U-T3RE-HSS**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1211678
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2510-578-4)
Test Lab: INNOVATION CENTER
Issue Date: 11/5/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH4-80-730-U-T3RE-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 685mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE III
ROADWAY ILLUMINANCE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9921 lumens
Efficiency: N/A
Efficacy: 119.0 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

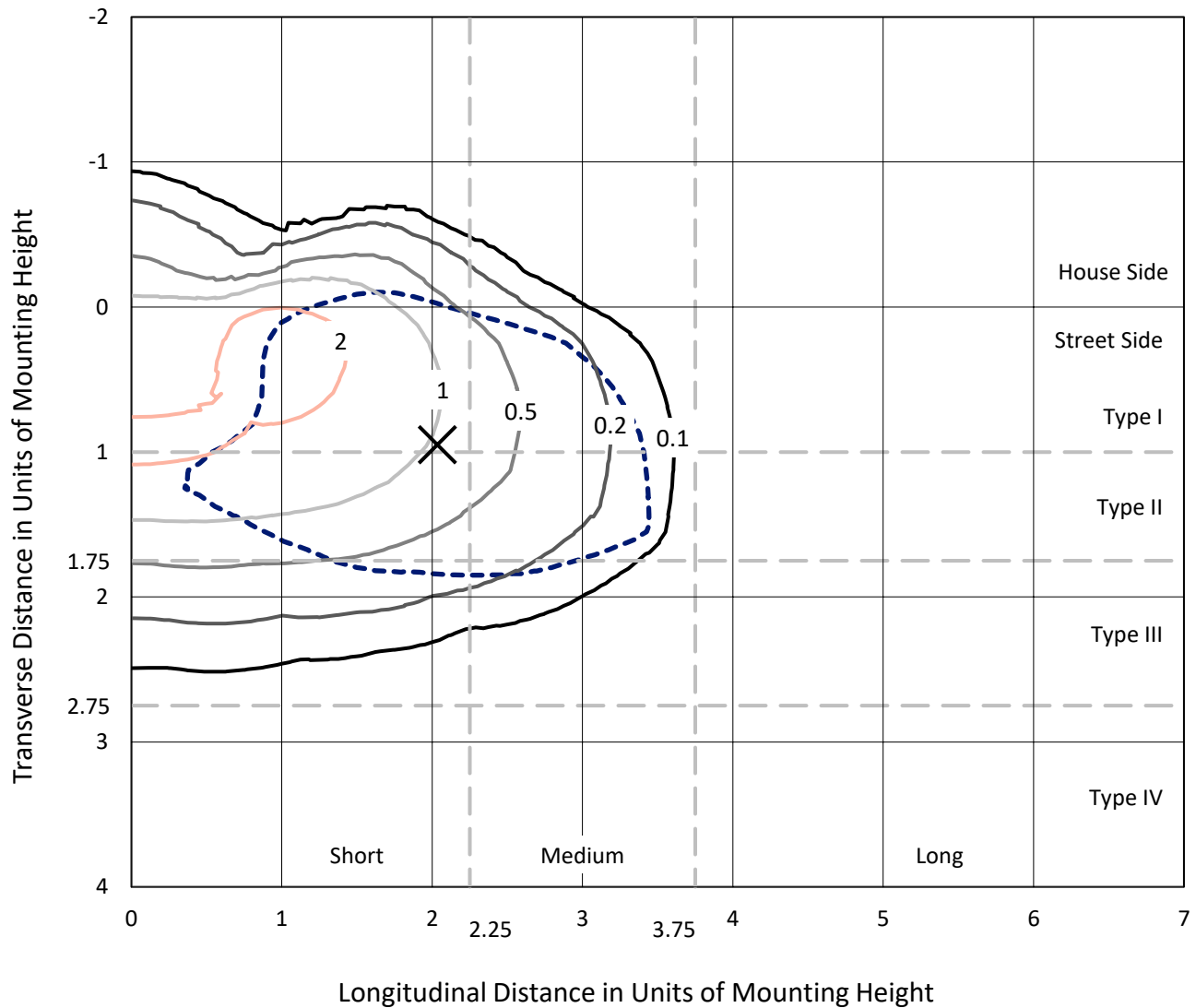
Input Watts (W): 83.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P1211678
CATALOG NUMBER: ARCH4-80-730-U-T3RE-HSS

Iso-Footcandle Lines of Horizontal Illumination

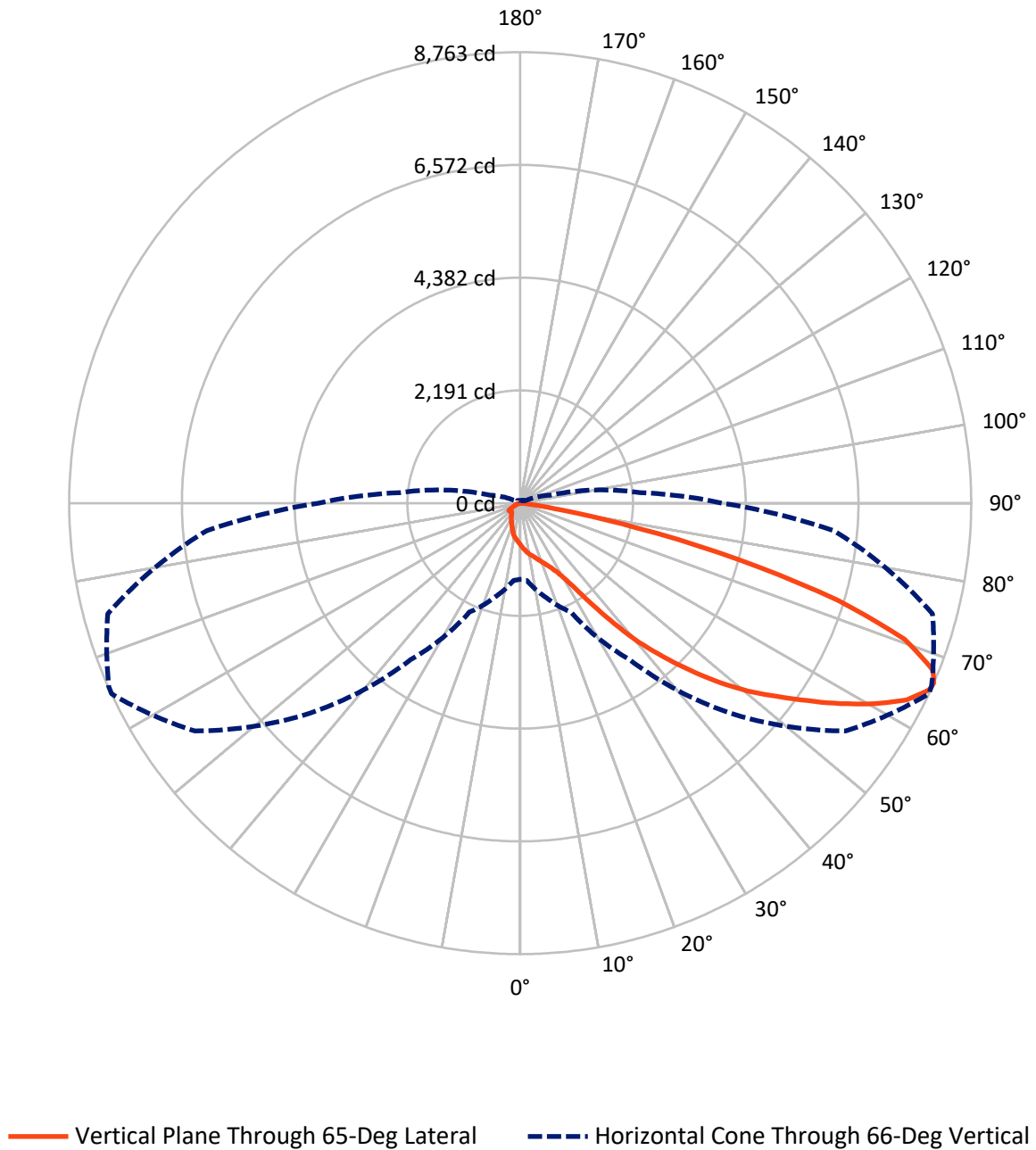
✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.7 fc
Type III - Short - N/A

REPORT NUMBER: P1211678
CATALOG NUMBER: ARCH4-80-730-U-T3RE-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P1211678

CATALOG NUMBER: ARCH4-80-730-U-T3RE-HSS

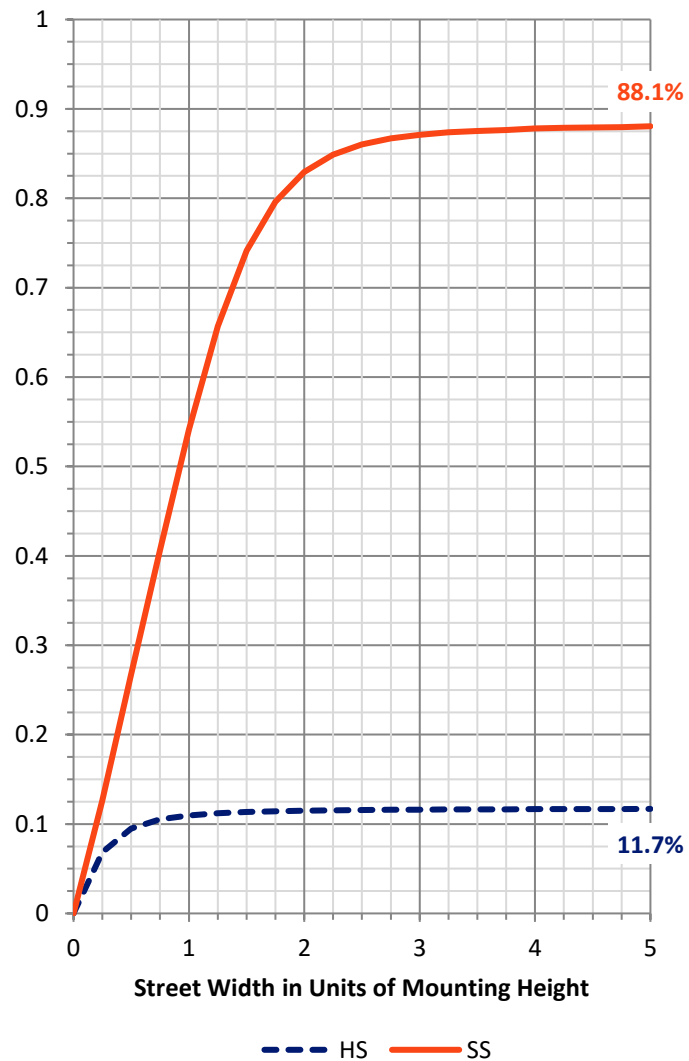
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1170.9	0.0	1170.9
	% Fixture	11.8	0.0	11.8
Street Side	Lumens	8750.1	0.0	8750.1
	% Fixture	88.2	0.0	88.2
Total	Lumens	9921.0	0.0	9921.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	76.6	0.8
10°-20°	226.8	2.3
20°-30°	415.2	4.2
30°-40°	843.6	8.5
40°-50°	1781.5	18.0
50°-60°	2738.8	27.6
60°-70°	2756.8	27.8
70°-80°	1030.1	10.4
80°-90°	51.5	0.5
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°	9921.0	100.0
0°-180°	9921.0	100.0

Coefficient of Utilization



REPORT NUMBER: P1211678

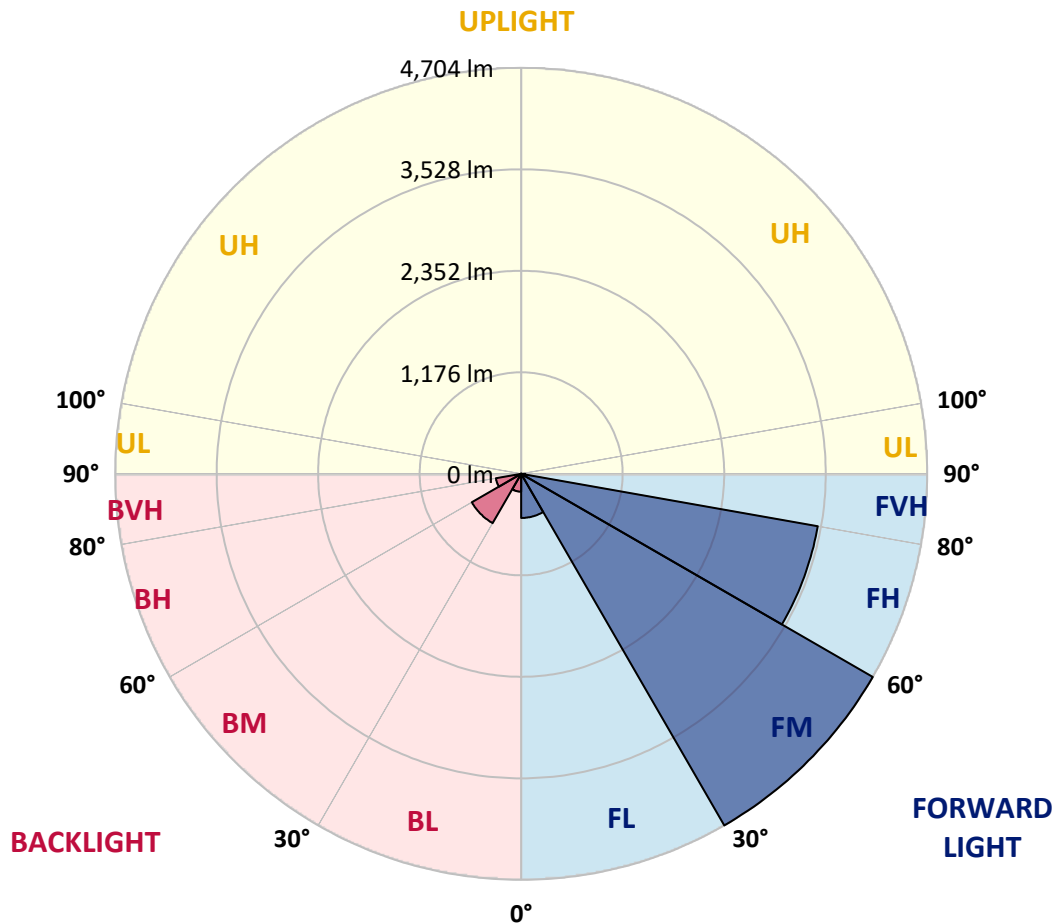
CATALOG NUMBER: ARCH4-80-730-U-T3RE-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	511.4	5.2			
FM	(30°-60°)	4703.8	47.4			
FH	(60°-80°)	3489.4	35.2			G2/5000
FVH	(80°-90°)	45.4	0.5			G1/100
BL	(0°-30°)	207.2	2.1	B1/500		
BM	(30°-60°)	660.1	6.7	B1/1000		
BH	(60°-80°)	297.4	3.0	B1/500		G1/500
BVH	(80°-90°)	6.1	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-G2

Type III Short



REPORT NUMBER: P1211678

CATALOG NUMBER: ARCH4-80-730-U-T3RE-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	808.3	808.3	808.3	808.3	808.3	808.3	808.3	808.3	808.3	808.3	808.3
2.5°	921.7	923.5	919.9	912.7	905.5	896.5	882.1	858.7	855.1	838.9	820.9
5°	984.7	988.3	982.9	981.1	977.5	964.9	945.1	910.9	907.3	874.9	833.5
7.5°	1006.3	1011.7	1008.1	1008.1	1008.1	1002.7	993.7	963.1	957.7	916.3	853.3
10°	1022.5	1026.1	1024.3	1031.5	1036.9	1033.3	1027.9	1009.9	1004.5	963.1	880.3
12.5°	1047.7	1049.5	1051.3	1054.9	1063.9	1067.5	1065.7	1049.5	1045.9	1017.1	914.5
15°	1071.1	1071.1	1072.9	1089.1	1101.7	1108.9	1110.7	1098.1	1094.5	1071.1	957.7
17.5°	1092.7	1094.5	1099.9	1117.9	1139.5	1153.9	1162.9	1157.5	1152.1	1134.1	1008.1
20°	1125.1	1128.7	1134.1	1159.3	1180.9	1204.3	1222.3	1220.5	1218.7	1206.1	1067.5
22.5°	1180.9	1184.5	1193.5	1216.9	1238.5	1267.3	1297.9	1296.1	1290.7	1281.7	1137.7
25°	1265.5	1265.5	1270.9	1290.7	1317.7	1351.9	1380.7	1386.1	1380.7	1375.3	1225.9
27.5°	1371.7	1373.5	1373.5	1395.1	1420.3	1463.5	1499.6	1505.0	1505.0	1499.6	1344.7
30°	1519.4	1514.0	1510.4	1528.4	1555.4	1618.4	1681.4	1692.2	1686.8	1695.8	1512.2
32.5°	1773.2	1764.2	1733.6	1737.2	1753.4	1839.8	1946.0	1983.8	1982.0	1998.2	1782.2
35°	2124.2	2106.2	2061.2	2023.4	2021.6	2115.2	2277.2	2419.4	2417.6	2473.5	2192.6
37.5°	2520.3	2543.7	2459.1	2394.2	2374.4	2448.2	2657.1	2964.9	2981.1	3078.3	2730.9
40°	3049.5	3063.9	2955.9	2864.1	2770.5	2797.5	3072.9	3551.8	3580.6	3688.6	3269.1
42.5°	3510.4	3524.8	3461.8	3350.1	3231.3	3180.9	3492.4	4084.6	4108.0	4257.4	3823.6
45°	3823.6	3834.4	3856.0	3866.8	3731.8	3627.4	4005.4	4631.9	4660.7	4833.5	4365.4
47.5°	4068.4	4077.4	4120.6	4228.6	4201.6	4118.8	4527.5	5200.7	5207.9	5400.6	4892.9
50°	4181.8	4203.4	4309.6	4475.3	4594.1	4617.5	5094.5	5739.0	5758.8	5942.4	5391.5
52.5°	4055.8	4063.0	4331.2	4642.7	4882.1	5119.7	5663.4	6237.6	6295.2	6432.1	5839.8
55°	3631.0	3683.2	4090.0	4637.3	5108.9	5596.8	6271.8	6775.9	6828.1	6914.5	6234.0
57.5°	3137.7	3195.3	3690.4	4405.0	5206.1	6037.8	6835.3	7348.3	7384.4	7407.8	6595.9
60°	2711.1	2765.1	3274.5	3960.4	5108.9	6349.2	7359.1	7917.2	7947.8	7884.8	6777.7
62.5°	2187.2	2241.2	2754.3	3371.7	4727.3	6412.3	7748.0	8423.1	8435.7	8264.6	6666.1
65°	1649.0	1685.0	2113.4	2642.7	4059.4	6077.4	7836.2	8738.1	8725.5	8374.5	6331.2
66°	1478.0	1508.6	1886.6	2336.6	3712.0	5771.4	7717.4	8763.3	8750.7	8293.4	6111.6
67.5°	1274.5	1283.5	1595.0	1911.8	3105.3	5121.5	7355.5	8648.1	8658.9	8070.2	5710.2
70°	995.5	993.7	1173.7	1330.3	2120.6	3643.6	6135.0	7922.6	7974.8	7227.7	4869.5
72.5°	637.3	615.7	720.1	813.7	1234.9	2115.2	4473.5	6457.3	6545.5	5677.8	3627.4
75°	379.8	358.2	383.4	406.8	592.3	1017.1	2630.1	4394.2	4478.9	3640.0	2158.4
77.5°	284.4	275.4	277.2	257.4	262.8	381.6	1200.7	2322.2	2383.4	1490.6	819.1
80°	217.8	194.4	181.8	190.8	172.8	151.2	446.4	799.3	837.1	352.8	171.0
82.5°	145.8	126.0	117.0	127.8	109.8	84.6	108.0	154.8	151.2	95.4	66.6
85°	75.6	64.8	64.8	64.8	55.8	41.4	46.8	63.0	63.0	50.4	39.6
87.5°	21.6	19.8	23.4	21.6	16.2	16.2	18.0	21.6	21.6	19.8	18.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P1211678

CATALOG NUMBER: ARCH4-80-730-U-T3RE-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	808.3	808.3	808.3	808.3	808.3	808.3	808.3	808.3	808.3	808.3	808.3
2.5°	806.5	799.3	779.5	765.1	750.7	738.1	723.7	720.1	712.9	714.7	711.1
5°	811.9	792.1	757.9	725.5	700.3	678.7	651.7	640.9	626.5	621.1	617.5
7.5°	819.1	790.3	739.9	694.9	651.7	608.5	565.3	540.1	523.9	516.7	511.3
10°	835.3	797.5	730.9	660.7	586.9	525.7	482.4	464.4	453.6	451.8	450.0
12.5°	856.9	808.3	721.9	617.5	520.3	462.6	435.6	430.2	428.4	428.4	426.6
15°	889.3	826.3	707.5	567.1	468.0	428.4	415.8	406.8	403.2	403.2	403.2
17.5°	921.7	847.9	685.9	514.9	432.0	406.8	394.2	388.8	385.2	387.0	385.2
20°	963.1	873.1	657.1	469.8	408.6	388.8	376.2	370.8	369.0	369.0	369.0
22.5°	1009.9	901.9	621.1	435.6	388.8	370.8	358.2	352.8	349.2	351.0	351.0
25°	1072.9	937.9	583.3	401.4	369.0	352.8	338.4	331.2	331.2	333.0	334.8
27.5°	1153.9	981.1	545.5	379.8	351.0	334.8	318.6	311.4	313.2	316.8	316.8
30°	1272.7	1040.5	507.7	356.4	331.2	313.2	298.8	291.6	295.2	302.4	302.4
32.5°	1441.9	1137.7	475.2	329.4	302.4	282.6	268.2	262.8	271.8	286.2	286.2
35°	1744.4	1315.9	455.4	302.4	271.8	248.4	230.4	225.0	237.6	255.6	255.6
37.5°	2149.4	1602.2	462.6	279.0	246.6	219.6	199.8	192.6	201.6	217.8	223.2
40°	2601.3	1947.8	525.7	259.2	223.2	196.2	176.4	169.2	174.6	181.8	183.6
42.5°	3053.1	2315.0	644.5	244.8	205.2	176.4	158.4	153.0	156.6	158.4	160.2
45°	3503.2	2678.7	793.9	235.8	189.0	160.2	142.2	142.2	144.0	144.0	144.0
47.5°	3929.8	3033.3	950.5	234.0	174.6	144.0	129.6	131.4	131.4	133.2	133.2
50°	4333.0	3350.1	1108.9	239.4	162.0	129.6	118.8	118.8	118.8	120.6	118.8
52.5°	4669.7	3627.4	1274.5	248.4	149.4	118.8	108.0	108.0	108.0	109.8	108.0
55°	4988.3	3879.4	1443.7	261.0	138.6	109.8	99.0	95.4	95.4	97.2	95.4
57.5°	5247.5	4046.8	1604.0	262.8	129.6	100.8	91.8	86.4	86.4	86.4	86.4
60°	5258.3	3949.6	1650.8	230.4	118.8	91.8	82.8	75.6	77.4	77.4	77.4
62.5°	4914.5	3438.4	1326.7	172.8	106.2	82.8	75.6	68.4	68.4	68.4	68.4
65°	4239.4	2675.1	777.7	136.8	91.8	73.8	66.6	61.2	61.2	61.2	59.4
66°	3922.6	2345.6	595.9	124.2	86.4	72.0	64.8	59.4	57.6	55.8	55.8
67.5°	3405.9	1854.2	372.6	109.8	79.2	66.6	59.4	54.0	52.2	50.4	50.4
70°	2565.3	1177.3	181.8	84.6	68.4	57.6	52.2	46.8	45.0	43.2	41.4
72.5°	1800.2	689.5	95.4	64.8	55.8	50.4	45.0	39.6	37.8	36.0	36.0
75°	1017.1	333.0	63.0	46.8	45.0	41.4	37.8	32.4	30.6	30.6	30.6
77.5°	385.2	115.2	43.2	34.2	36.0	32.4	27.0	27.0	25.2	27.0	25.2
80°	100.8	50.4	27.0	25.2	27.0	23.4	19.8	21.6	21.6	21.6	21.6
82.5°	54.0	28.8	16.2	18.0	16.2	16.2	12.6	14.4	16.2	14.4	16.2
85°	37.8	14.4	9.0	9.0	7.2	7.2	5.4	7.2	9.0	7.2	7.2
87.5°	19.8	5.4	5.4	5.4	5.4	3.6	1.8	0.0	1.8	1.8	1.8
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)