

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: P1209958

Luminaire Tested: **ARCH1-30-740-U-T3RE-HSS**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1209958
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: ARCH1-30-740-U-T3RE-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 4000K, 950mA LIGHTSQUARE WITH 10 LEDS AND TYPE III ROADWAY
ILLUMINANCE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

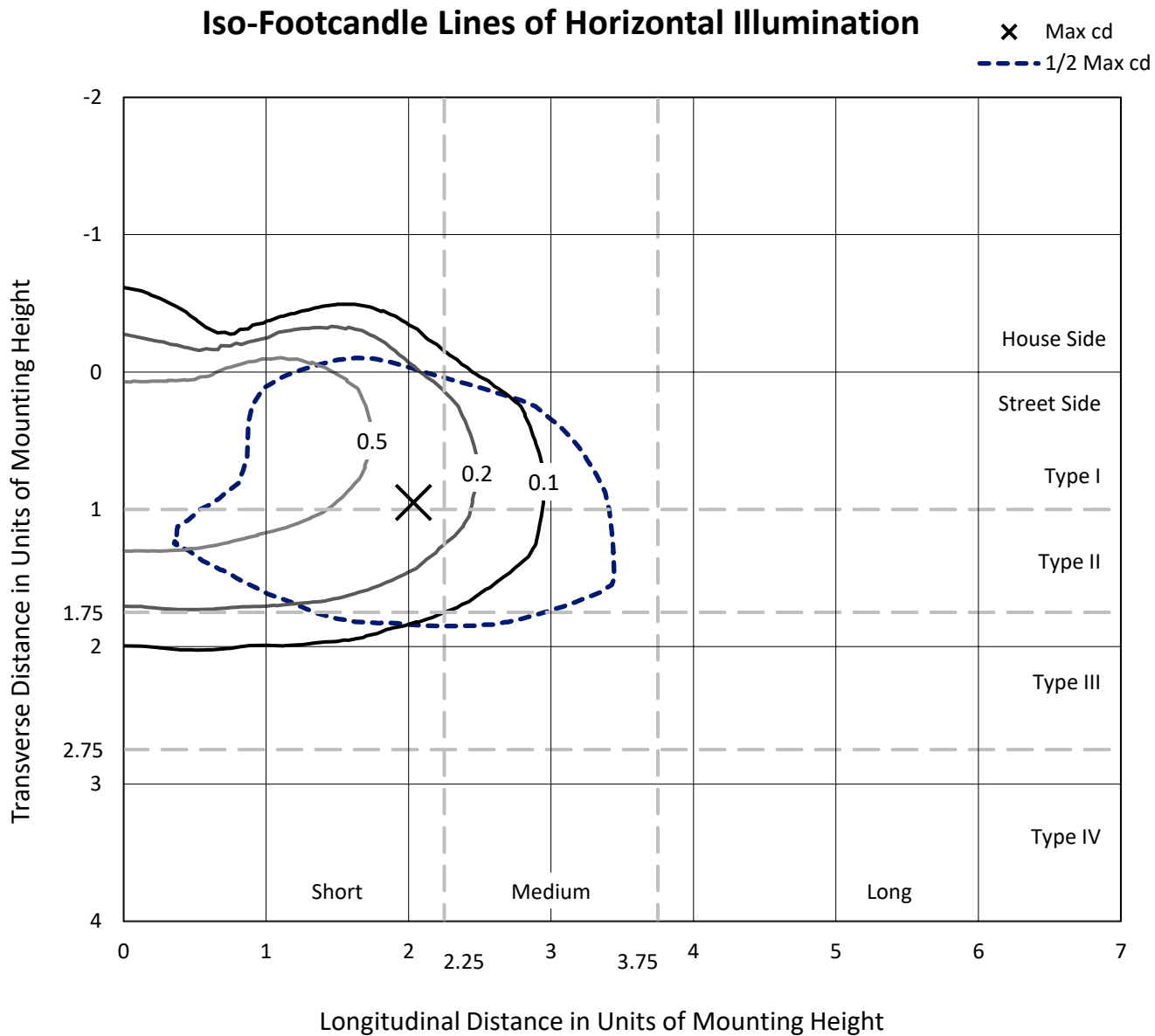
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3428 lumens
Efficiency: N/A
Efficacy: 103.9 lumens/watt
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G1

Input Watts (W): 33
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



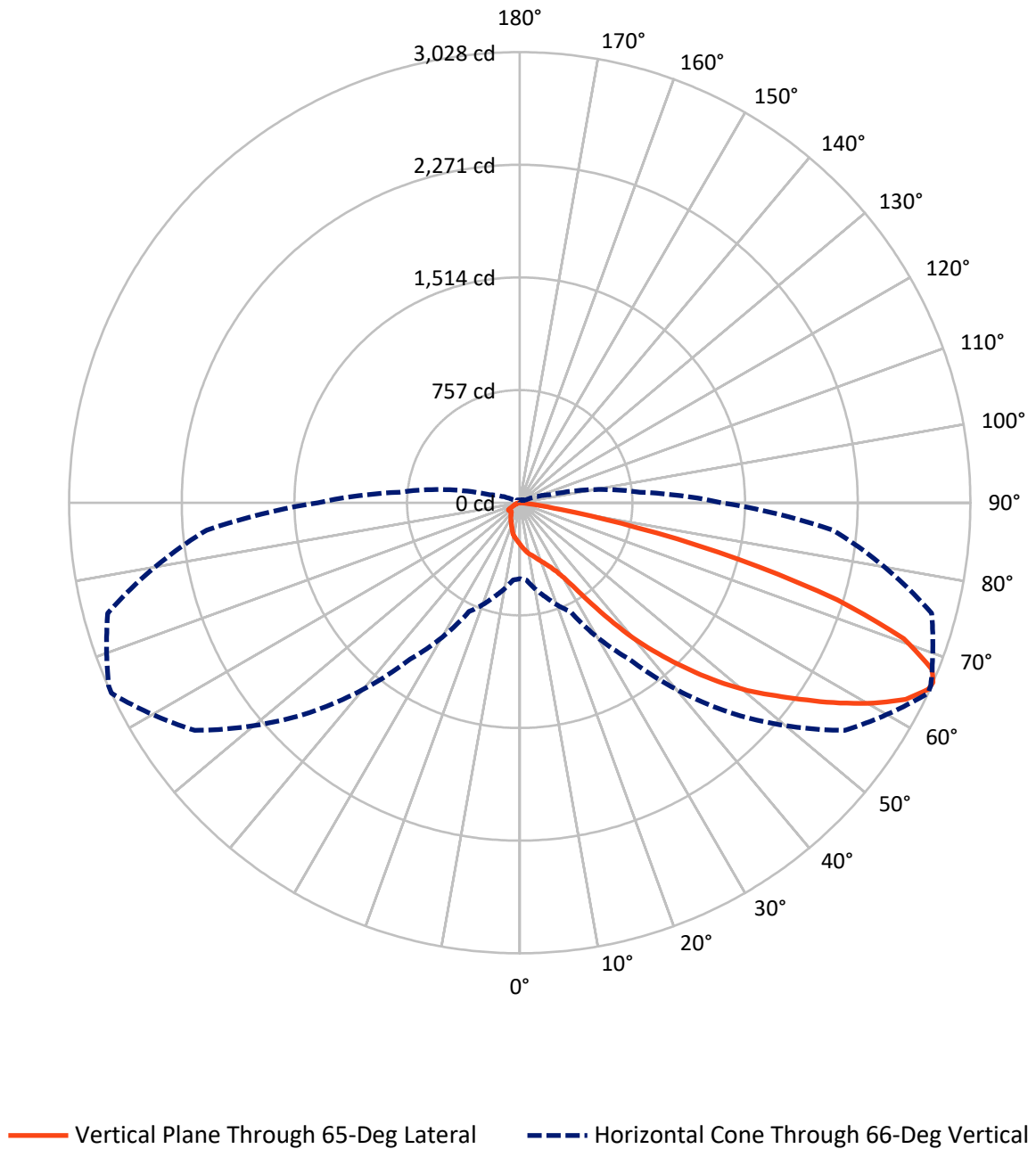
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Based on 25 foot mounting height. Maximum calculated value = 0.9 fc
Type III - Short - N/A

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Luminous Intensity Polar Plot



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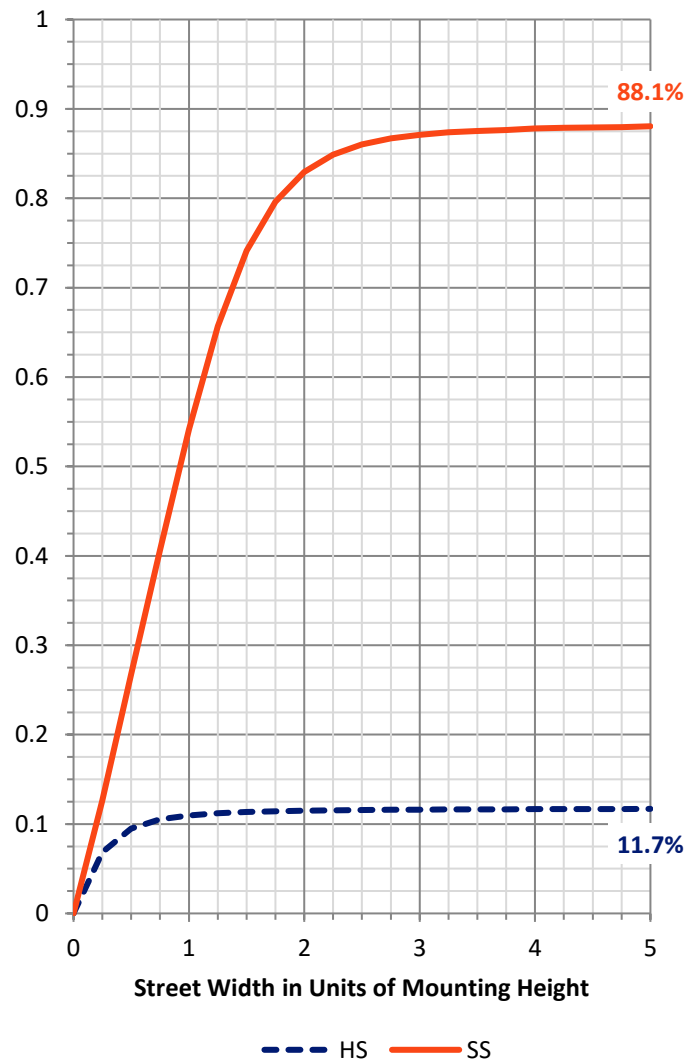
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	404.6	0.0	404.6
	% Fixture	11.8	0.0	11.8
Street Side	Lumens	3023.4	0.0	3023.4
	% Fixture	88.2	0.0	88.2
Total	Lumens	3428.0	0.0	3428.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	26.5	0.8
10°-20°	78.4	2.3
20°-30°	143.5	4.2
30°-40°	291.5	8.5
40°-50°	615.6	18.0
50°-60°	946.3	27.6
60°-70°	952.6	27.8
70°-80°	355.9	10.4
80°-90°	17.8	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°	3428.0	100.0
0°-180°	3428.0	100.0

Coefficient of Utilization



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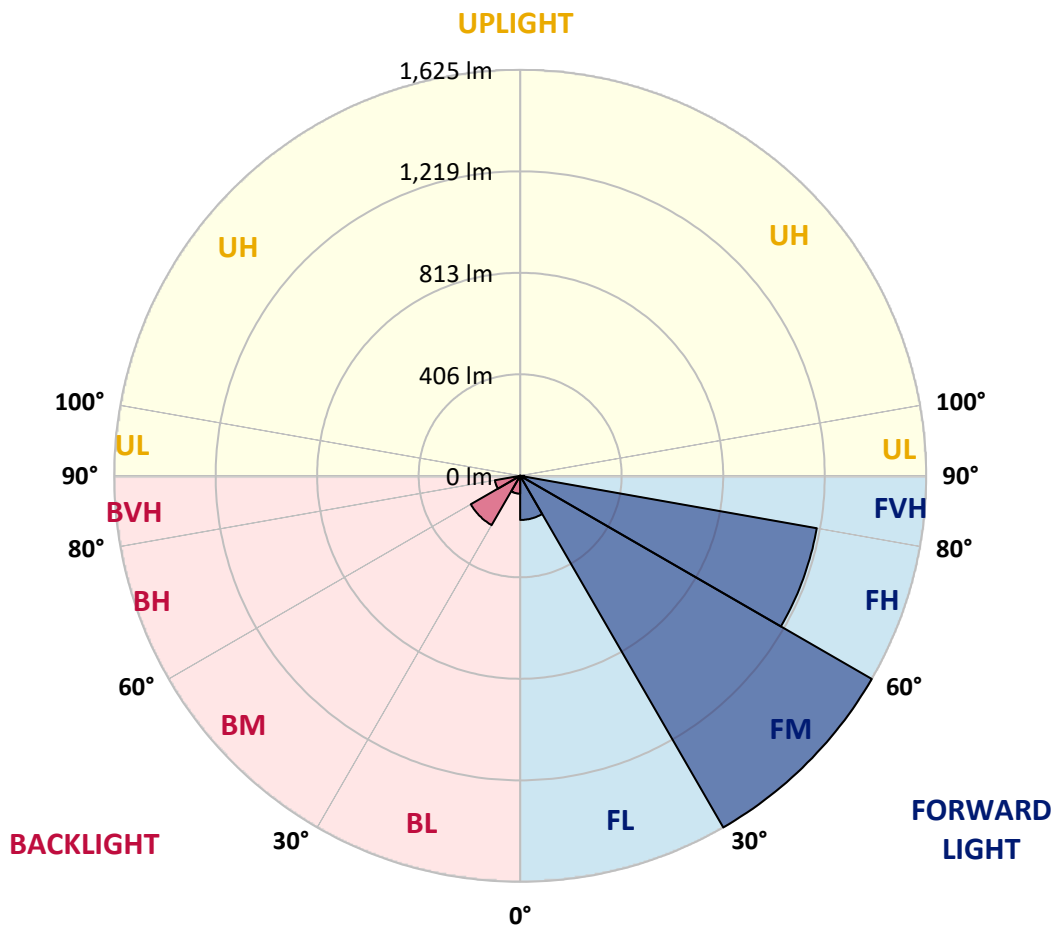
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	176.7	5.2			
FM	(30°-60°)	1625.3	47.4			
FH	(60°-80°)	1205.7	35.2			G1/1800
FVH	(80°-90°)	15.7	0.5			G1/100
BL	(0°-30°)	71.6	2.1	B0/110		
BM	(30°-60°)	228.1	6.7	B1/1000		
BH	(60°-80°)	102.8	3.0	B0/110		G0/110
BVH	(80°-90°)	2.1	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-G1

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	279.3	279.3	279.3	279.3	279.3	279.3	279.3	279.3	279.3	279.3	279.3
2.5°	318.5	319.1	317.9	315.4	312.9	309.8	304.8	296.7	295.5	289.9	283.6
5°	340.2	341.5	339.6	339.0	337.8	333.4	326.6	314.7	313.5	302.3	288.0
7.5°	347.7	349.6	348.3	348.3	348.3	346.5	343.4	332.8	330.9	316.6	294.8
10°	353.3	354.5	353.9	356.4	358.3	357.0	355.2	349.0	347.1	332.8	304.2
12.5°	362.0	362.6	363.3	364.5	367.6	368.9	368.2	362.6	361.4	351.4	316.0
15°	370.1	370.1	370.7	376.3	380.7	383.2	383.8	379.4	378.2	370.1	330.9
17.5°	377.6	378.2	380.1	386.3	393.7	398.7	401.8	400.0	398.1	391.9	348.3
20°	388.8	390.0	391.9	400.6	408.0	416.1	422.3	421.7	421.1	416.8	368.9
22.5°	408.0	409.3	412.4	420.5	427.9	437.9	448.5	447.9	446.0	442.9	393.1
25°	437.3	437.3	439.1	446.0	455.3	467.1	477.1	479.0	477.1	475.2	423.6
27.5°	474.0	474.6	474.6	482.1	490.8	505.7	518.1	520.0	520.0	518.1	464.6
30°	525.0	523.1	521.9	528.1	537.4	559.2	581.0	584.7	582.8	585.9	522.5
32.5°	612.7	609.6	599.0	600.2	605.8	635.7	672.4	685.5	684.8	690.4	615.8
35°	734.0	727.8	712.2	699.1	698.5	730.9	786.9	836.0	835.4	854.7	757.6
37.5°	870.8	878.9	849.7	827.3	820.4	845.9	918.1	1024.5	1030.1	1063.6	943.6
40°	1053.7	1058.7	1021.4	989.6	957.3	966.6	1061.8	1227.2	1237.2	1274.5	1129.6
42.5°	1212.9	1217.9	1196.1	1157.6	1116.5	1099.1	1206.7	1411.4	1419.4	1471.1	1321.2
45°	1321.2	1324.9	1332.4	1336.1	1289.4	1253.4	1384.0	1600.4	1610.4	1670.1	1508.4
47.5°	1405.8	1408.9	1423.8	1461.1	1451.8	1423.2	1564.4	1797.0	1799.5	1866.1	1690.6
50°	1444.9	1452.4	1489.1	1546.3	1587.4	1595.5	1760.3	1983.0	1989.8	2053.3	1862.9
52.5°	1401.4	1403.9	1496.6	1604.2	1686.9	1769.0	1956.9	2155.3	2175.2	2222.5	2017.8
55°	1254.6	1272.6	1413.2	1602.3	1765.3	1933.9	2167.1	2341.3	2359.3	2389.2	2154.0
57.5°	1084.2	1104.1	1275.1	1522.1	1798.9	2086.2	2361.8	2539.1	2551.5	2559.6	2279.1
60°	936.8	955.4	1131.4	1368.4	1765.3	2193.9	2542.8	2735.6	2746.2	2724.4	2341.9
62.5°	755.8	774.4	951.7	1165.0	1633.4	2215.6	2677.2	2910.4	2914.8	2855.7	2303.3
65°	569.8	582.2	730.2	913.1	1402.6	2099.9	2707.6	3019.3	3014.9	2893.6	2187.6
66°	510.7	521.3	651.9	807.4	1282.6	1994.2	2666.6	3028.0	3023.6	2865.6	2111.7
67.5°	440.4	443.5	551.1	660.6	1073.0	1769.6	2541.6	2988.2	2991.9	2788.5	1973.0
70°	344.0	343.4	405.6	459.7	732.7	1259.0	2119.8	2737.5	2755.5	2497.4	1682.6
72.5°	220.2	212.7	248.8	281.2	426.7	730.9	1545.7	2231.2	2261.7	1961.8	1253.4
75°	131.2	123.8	132.5	140.6	204.6	351.4	908.8	1518.3	1547.6	1257.7	745.8
77.5°	98.3	95.2	95.8	88.9	90.8	131.9	414.9	802.4	823.6	515.0	283.0
80°	75.3	67.2	62.8	65.9	59.7	52.2	154.3	276.2	289.2	121.9	59.1
82.5°	50.4	43.5	40.4	44.2	37.9	29.2	37.3	53.5	52.2	33.0	23.0
85°	26.1	22.4	22.4	22.4	19.3	14.3	16.2	21.8	21.8	17.4	13.7
87.5°	7.5	6.8	8.1	7.5	5.6	5.6	6.2	7.5	7.5	6.8	6.2
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°	279.3	279.3	279.3	279.3	279.3	279.3	279.3	279.3	279.3	279.3	279.3
2.5°	278.7	276.2	269.3	264.4	259.4	255.0	250.1	248.8	246.3	246.9	245.7
5°	280.5	273.7	261.9	250.7	242.0	234.5	225.2	221.4	216.5	214.6	213.4
7.5°	283.0	273.1	255.6	240.1	225.2	210.2	195.3	186.6	181.0	178.5	176.7
10°	288.6	275.6	252.5	228.3	202.8	181.6	166.7	160.5	156.7	156.1	155.5
12.5°	296.1	279.3	249.4	213.4	179.8	159.9	150.5	148.7	148.0	148.0	147.4
15°	307.3	285.5	244.5	195.9	161.7	148.0	143.7	140.6	139.3	139.3	139.3
17.5°	318.5	293.0	237.0	177.9	149.3	140.6	136.2	134.4	133.1	133.7	133.1
20°	332.8	301.7	227.0	162.3	141.2	134.4	130.0	128.1	127.5	127.5	127.5
22.5°	349.0	311.6	214.6	150.5	134.4	128.1	123.8	121.9	120.7	121.3	121.3
25°	370.7	324.1	201.5	138.7	127.5	121.9	116.9	114.5	114.5	115.1	115.7
27.5°	398.7	339.0	188.5	131.2	121.3	115.7	110.1	107.6	108.2	109.5	109.5
30°	439.8	359.5	175.4	123.2	114.5	108.2	103.3	100.8	102.0	104.5	104.5
32.5°	498.2	393.1	164.2	113.8	104.5	97.7	92.7	90.8	93.9	98.9	98.9
35°	602.7	454.7	157.4	104.5	93.9	85.8	79.6	77.8	82.1	88.3	88.3
37.5°	742.7	553.6	159.9	96.4	85.2	75.9	69.0	66.6	69.7	75.3	77.1
40°	898.8	673.0	181.6	89.6	77.1	67.8	61.0	58.5	60.3	62.8	63.4
42.5°	1054.9	799.9	222.7	84.6	70.9	61.0	54.7	52.9	54.1	54.7	55.4
45°	1210.4	925.6	274.3	81.5	65.3	55.4	49.1	49.1	49.8	49.8	49.8
47.5°	1357.9	1048.1	328.4	80.9	60.3	49.8	44.8	45.4	45.4	46.0	46.0
50°	1497.2	1157.6	383.2	82.7	56.0	44.8	41.1	41.1	41.1	41.7	41.1
52.5°	1613.5	1253.4	440.4	85.8	51.6	41.1	37.3	37.3	37.3	37.9	37.3
55°	1723.6	1340.4	498.9	90.2	47.9	37.9	34.2	33.0	33.0	33.6	33.0
57.5°	1813.2	1398.3	554.2	90.8	44.8	34.8	31.7	29.9	29.9	29.9	29.9
60°	1816.9	1364.7	570.4	79.6	41.1	31.7	28.6	26.1	26.7	26.7	26.7
62.5°	1698.1	1188.1	458.4	59.7	36.7	28.6	26.1	23.6	23.6	23.6	23.6
65°	1464.8	924.3	268.7	47.3	31.7	25.5	23.0	21.1	21.1	21.1	20.5
66°	1355.4	810.5	205.9	42.9	29.9	24.9	22.4	20.5	19.9	19.3	19.3
67.5°	1176.9	640.7	128.8	37.9	27.4	23.0	20.5	18.7	18.0	17.4	17.4
70°	886.4	406.8	62.8	29.2	23.6	19.9	18.0	16.2	15.6	14.9	14.3
72.5°	622.0	238.2	33.0	22.4	19.3	17.4	15.6	13.7	13.1	12.4	12.4
75°	351.4	115.1	21.8	16.2	15.6	14.3	13.1	11.2	10.6	10.6	10.6
77.5°	133.1	39.8	14.9	11.8	12.4	11.2	9.3	9.3	8.7	9.3	8.7
80°	34.8	17.4	9.3	8.7	9.3	8.1	6.8	7.5	7.5	7.5	7.5
82.5°	18.7	10.0	5.6	6.2	5.6	5.6	4.4	5.0	5.6	5.0	5.6
85°	13.1	5.0	3.1	3.1	2.5	2.5	1.9	2.5	3.1	2.5	2.5
87.5°	6.8	1.9	1.9	1.9	1.9	1.2	0.6	0.0	0.6	0.6	0.6
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)