

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: P959423

Luminaire Tested: **NVN-SB1A-827-U-T2R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P959423
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-3)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: NVN-SB1A-827-U-T2R
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 80 CRI, 2700K, 350mA LIGHTSQUARE WITH 26 LEDS AND TYPE II ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4073.4 lumens
Efficiency: N/A
Efficacy: 131.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G1

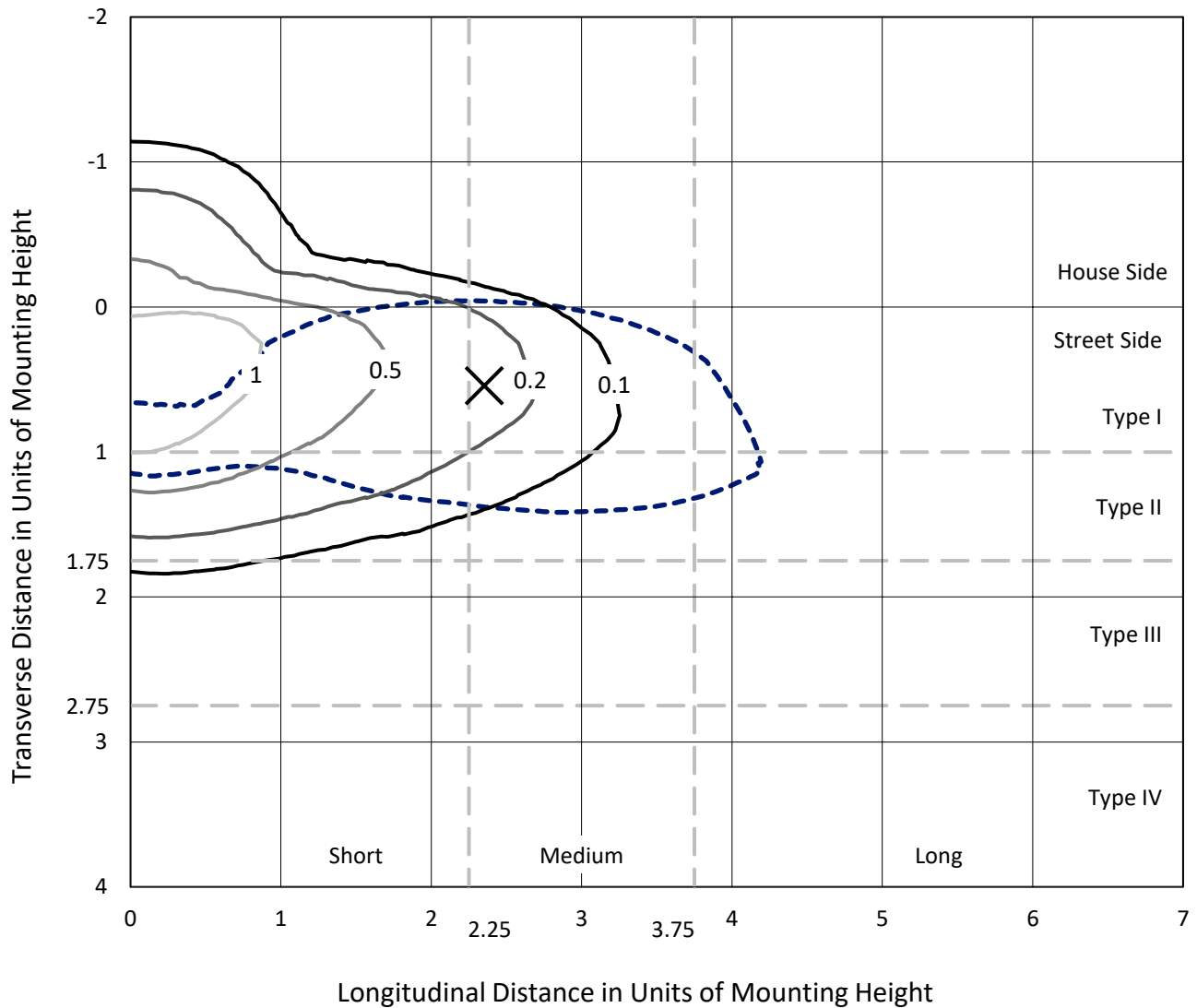
Input Watts (W): 30.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

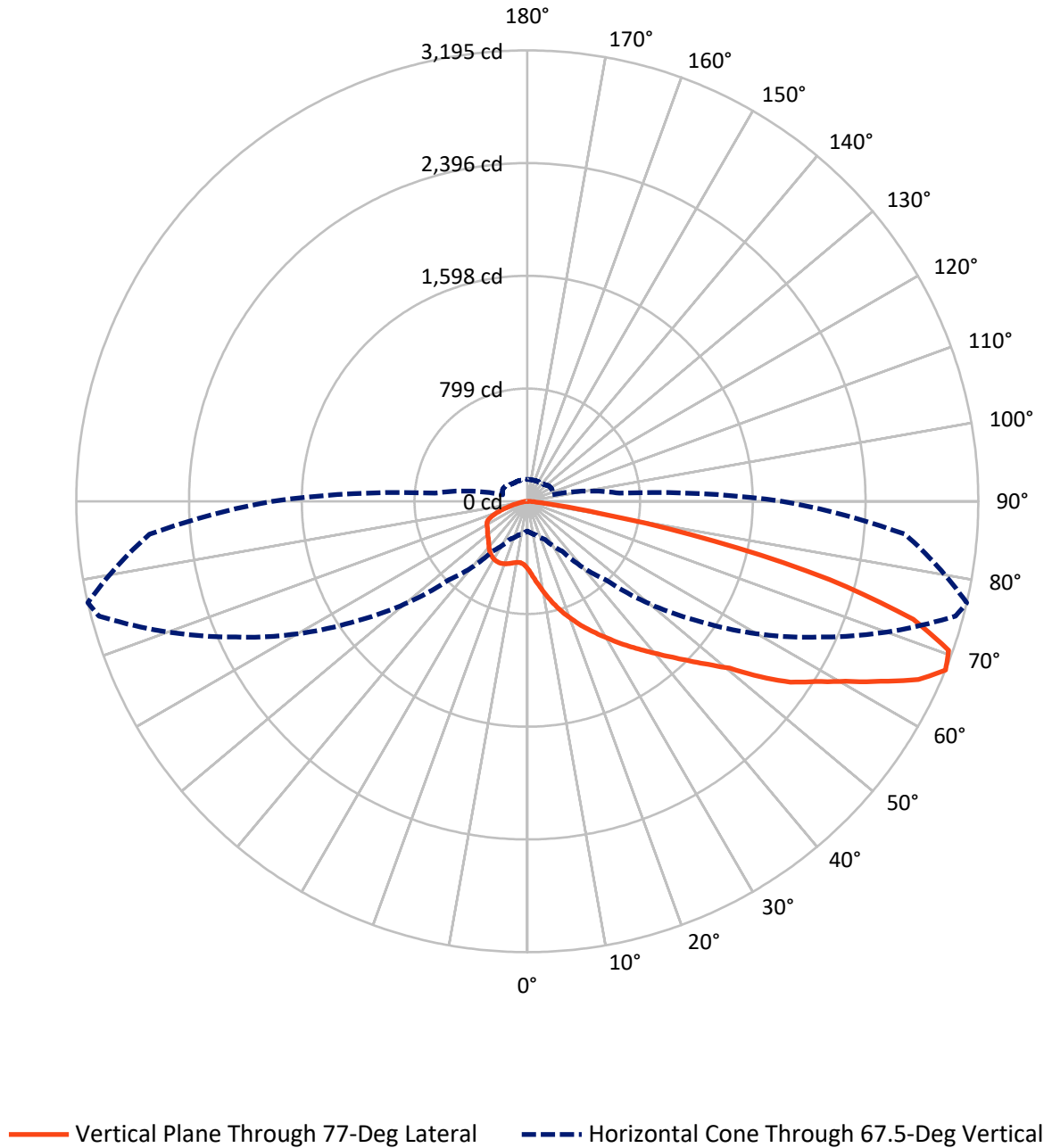
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.5 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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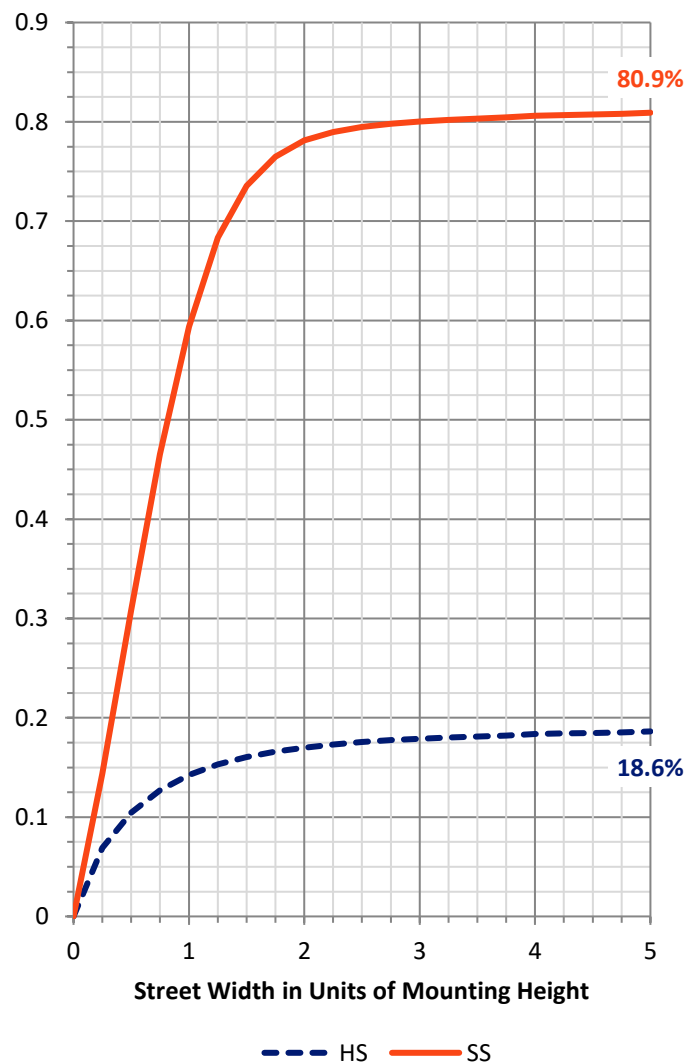
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	770.5	0.0	770.5
	% Fixture	18.9	0.0	18.9
Street Side	Lumens	3302.9	0.0	3302.9
	% Fixture	81.1	0.0	81.1
Total	Lumens	4073.4	0.0	4073.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	51.2	1.3
10°-20°	184.0	4.5
20°-30°	347.5	8.5
30°-40°	559.8	13.7
40°-50°	765.7	18.8
50°-60°	863.7	21.2
60°-70°	806.2	19.8
70°-80°	441.9	10.8
80°-90°	53.3	1.3
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°	4073.4	100.0
0°-180°	4073.4	100.0

Coefficient of Utilization

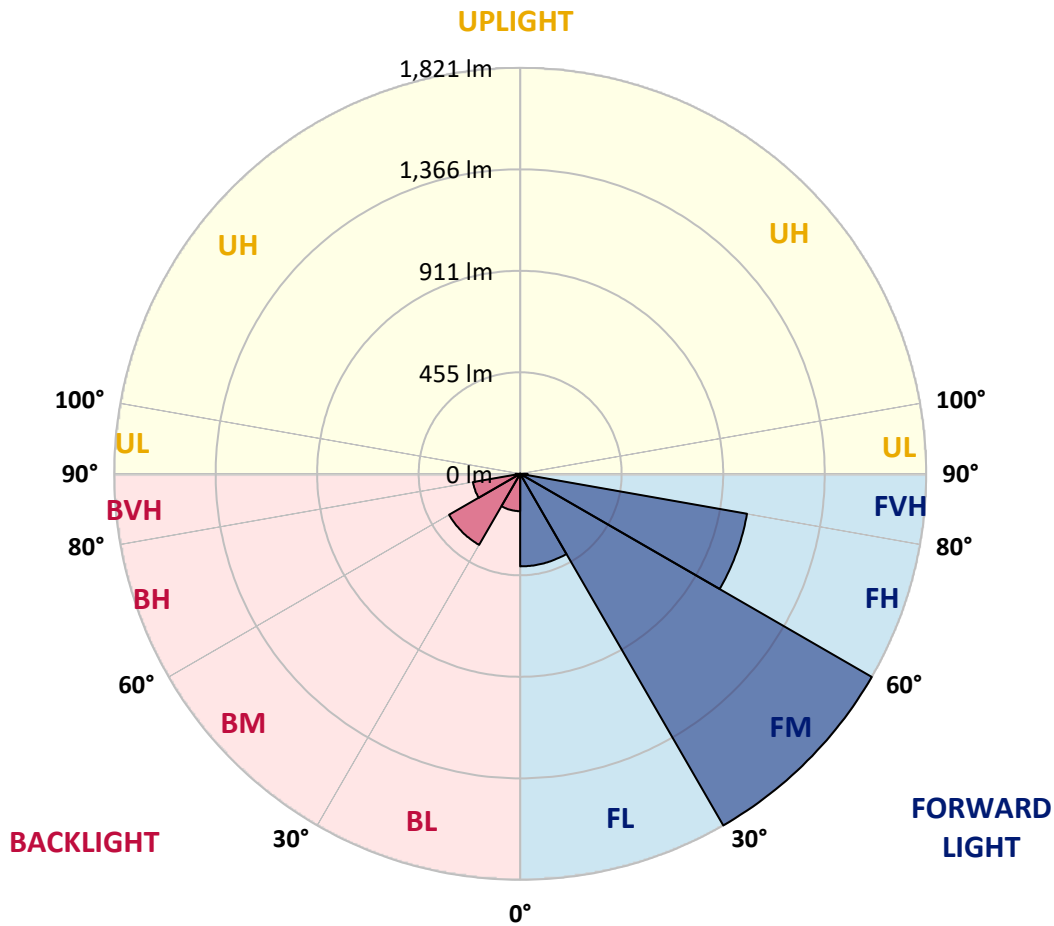


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	415.2	10.2			
FM (30°-60°)	1821.2	44.7			
FH (60°-80°)	1033.1	25.4			G1/1800
FVH (80°-90°)	33.3	0.8			G1/100
BL (0°-30°)	167.5	4.1	B1/500		
BM (30°-60°)	368.1	9.0	B1/1000		
BH (60°-80°)	215.0	5.3	B1/500		G1/500
BVH (80°-90°)	20.0	0.5			G1/100
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 Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	478.0	478.0	478.0	478.0	478.0	478.0	478.0	478.0	478.0	478.0	478.0
2.5°	598.4	602.6	597.4	597.4	579.7	570.4	552.8	539.4	515.2	511.0	495.0
5°	707.4	712.6	705.2	702.0	681.2	662.2	632.4	603.2	560.2	555.8	518.1
7.5°	791.6	798.4	791.8	788.5	770.0	748.6	713.8	673.0	612.3	603.6	549.2
10°	860.4	861.4	859.4	860.6	846.1	828.4	792.9	745.4	669.5	657.7	586.8
12.5°	899.3	904.2	908.4	915.9	913.4	902.4	870.5	813.7	730.0	714.9	627.8
15°	917.6	926.0	935.4	952.9	967.0	969.8	945.4	887.1	791.6	773.4	669.2
17.5°	924.1	932.1	947.0	972.2	1002.6	1023.0	1012.0	958.4	852.6	831.6	712.8
20°	957.1	959.4	968.5	992.4	1025.2	1059.1	1067.3	1026.9	913.0	889.2	757.8
22.5°	1027.8	1023.2	1025.7	1036.6	1060.2	1093.0	1111.7	1087.5	975.0	947.6	803.2
25°	1144.5	1131.0	1117.6	1104.9	1116.9	1135.4	1156.7	1148.0	1040.0	1005.3	849.0
27.5°	1291.9	1275.5	1245.8	1204.4	1189.9	1196.4	1205.9	1204.2	1100.1	1065.0	896.4
30°	1436.9	1417.8	1382.5	1322.6	1284.3	1267.0	1259.9	1255.1	1165.5	1128.1	944.1
32.5°	1552.8	1537.7	1503.0	1435.9	1380.4	1350.9	1327.2	1309.9	1233.8	1196.4	994.6
35°	1654.1	1640.1	1600.3	1527.1	1466.8	1435.5	1404.4	1367.6	1304.9	1267.0	1048.8
37.5°	1746.7	1732.6	1678.1	1602.0	1541.2	1519.6	1491.8	1429.4	1376.2	1340.4	1106.2
40°	1805.1	1802.0	1751.1	1664.9	1601.8	1591.1	1581.8	1501.1	1455.2	1422.0	1169.3
42.5°	1820.1	1827.0	1786.6	1715.7	1655.6	1647.0	1668.7	1582.2	1544.0	1512.2	1240.8
45°	1784.1	1804.1	1777.6	1729.4	1693.9	1689.3	1745.6	1671.0	1642.2	1613.1	1327.0
47.5°	1693.1	1726.9	1716.0	1709.2	1704.2	1724.2	1813.3	1765.2	1753.4	1728.2	1425.4
50°	1509.3	1573.4	1592.5	1635.0	1683.8	1751.3	1874.9	1868.0	1883.3	1857.9	1545.2
52.5°	1191.6	1279.9	1390.9	1497.3	1621.1	1742.3	1942.6	2015.6	2080.3	2066.5	1735.7
55°	983.6	1023.4	1108.7	1303.8	1499.6	1704.2	1973.1	2134.8	2275.9	2263.5	1880.2
57.5°	823.8	859.4	911.9	1074.9	1315.8	1617.8	1992.1	2207.5	2409.9	2408.5	2022.7
60°	652.4	690.1	743.9	859.4	1101.2	1468.5	1987.9	2290.4	2580.7	2591.3	2196.7
62.5°	459.0	500.4	560.2	667.8	881.8	1275.0	1902.1	2350.3	2782.1	2810.7	2405.9
65°	301.8	329.0	374.0	467.0	657.0	1026.3	1738.3	2358.1	2997.3	3045.7	2602.3
67.5°	211.6	222.0	248.6	299.0	433.2	787.0	1477.3	2277.5	3140.9	3195.3	2687.3
70°	165.0	170.4	183.8	204.0	272.0	529.2	1132.1	2068.1	3110.3	3167.0	2598.5
72.5°	142.6	147.6	152.6	155.2	182.6	326.8	766.8	1729.2	2821.1	2859.5	2259.3
75°	129.4	130.6	134.8	134.0	139.2	212.0	442.6	1259.9	2225.9	2212.6	1667.8
77.5°	108.8	110.4	117.4	116.2	123.6	144.8	229.8	813.1	1443.0	1353.0	928.3
80°	92.0	93.0	100.6	99.2	107.4	105.0	117.4	414.4	612.1	518.5	267.6
82.5°	32.0	39.6	76.8	79.0	82.0	63.6	67.8	169.0	187.0	143.2	56.2
85°	15.6	16.6	39.2	55.6	55.4	32.0	33.0	60.4	58.8	46.2	18.8
87.5°	2.6	3.2	4.6	21.6	17.2	8.4	11.4	11.8	12.2	10.6	4.2
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°	478.0	478.0	478.0	478.0	478.0	478.0	478.0	478.0	478.0	478.0	478.0
2.5°	483.2	472.6	450.6	430.2	414.2	398.8	390.2	382.9	378.6	377.8	377.8
5°	496.2	474.6	434.4	400.6	378.4	362.0	353.4	348.0	345.2	343.6	343.4
7.5°	515.0	483.2	426.0	387.6	364.4	352.6	348.2	347.4	347.2	347.4	348.0
10°	540.8	497.2	425.2	384.4	365.0	358.5	358.3	358.5	359.4	359.6	359.8
12.5°	568.8	511.8	428.6	387.1	373.0	369.4	368.8	368.6	369.2	369.6	369.8
15°	599.2	530.9	434.2	393.0	381.8	378.0	377.4	376.2	376.0	375.8	375.6
17.5°	630.6	549.8	440.5	399.3	387.6	382.2	380.0	377.0	374.7	374.0	374.7
20°	662.4	568.6	445.0	402.4	388.0	380.6	376.0	370.9	367.0	364.6	365.4
22.5°	696.2	588.1	447.6	401.6	384.2	374.0	365.6	359.8	353.6	349.6	349.8
25°	729.2	605.2	447.4	397.2	376.8	364.0	353.2	345.6	337.2	333.0	333.0
27.5°	761.0	620.5	442.2	389.4	366.2	352.0	339.2	330.2	322.0	318.0	317.8
30°	793.8	633.3	434.0	378.0	353.8	338.1	324.0	316.2	308.8	305.1	304.8
32.5°	826.4	645.1	422.4	364.0	339.6	324.4	310.6	303.4	299.0	299.0	299.2
35°	860.8	653.3	407.0	347.6	324.4	310.0	299.0	294.8	294.4	291.8	291.2
37.5°	897.2	658.6	388.4	330.8	309.5	295.8	292.4	287.4	283.2	277.8	277.0
40°	935.4	663.8	365.8	313.3	293.8	286.2	284.7	278.0	266.0	252.6	250.6
42.5°	982.0	667.4	342.6	295.8	277.2	274.6	276.8	265.2	246.0	236.0	236.2
45°	1035.8	673.2	321.0	278.6	260.1	260.1	269.0	253.8	238.0	231.8	232.8
47.5°	1105.6	687.0	301.1	259.6	244.4	248.6	251.6	240.2	231.2	223.6	223.3
50°	1206.5	719.8	280.5	240.6	232.4	240.8	236.4	229.6	219.4	213.0	212.4
52.5°	1331.8	739.1	262.2	223.3	222.0	230.4	224.2	217.8	210.0	201.6	200.0
55°	1417.2	742.6	246.8	210.6	215.1	214.2	212.0	206.2	202.0	191.0	191.2
57.5°	1512.6	749.8	234.2	203.2	210.6	201.4	200.6	195.8	190.2	182.8	180.2
60°	1626.8	761.0	223.3	200.2	206.9	193.0	188.8	187.0	181.4	177.6	178.8
62.5°	1751.3	771.0	212.2	200.6	202.4	184.8	178.6	177.8	174.6	173.2	173.2
65°	1836.3	743.5	198.2	200.2	195.6	176.4	168.4	168.2	165.4	165.0	164.8
67.5°	1806.6	656.2	179.6	194.2	188.4	168.0	159.2	158.4	154.8	155.0	155.0
70°	1658.1	531.8	153.8	179.8	179.6	160.4	149.5	146.8	142.0	142.8	143.6
72.5°	1379.8	394.0	119.0	155.6	165.4	153.4	138.4	134.0	127.8	128.6	128.4
75°	996.4	267.8	86.6	118.4	144.0	145.2	127.4	119.8	112.4	113.8	114.2
77.5°	509.9	151.8	63.8	81.6	113.2	132.0	117.6	107.4	105.8	117.6	115.8
80°	166.4	76.2	44.2	57.2	74.2	108.0	103.0	91.4	91.0	93.8	80.6
82.5°	49.6	32.2	28.4	37.6	41.0	82.8	89.0	69.2	59.6	62.6	64.8
85°	17.0	15.6	16.2	18.8	19.6	48.6	62.2	45.8	43.4	47.8	47.2
87.5°	4.0	5.4	4.6	4.2	4.2	11.8	24.2	19.2	26.4	17.6	17.0
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)