

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: P959464

Luminaire Tested: **NVN-SB1A-830-U-T4W-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P959464
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-2)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: NVN-SB1A-830-U-T4W-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 80 CRI, 3000K, 350mA LIGHTSQUARE WITH 26 LEDS AND TYPE IV WIDE OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3183.6 lumens
Efficiency: N/A
Efficacy: 103.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B0 - 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

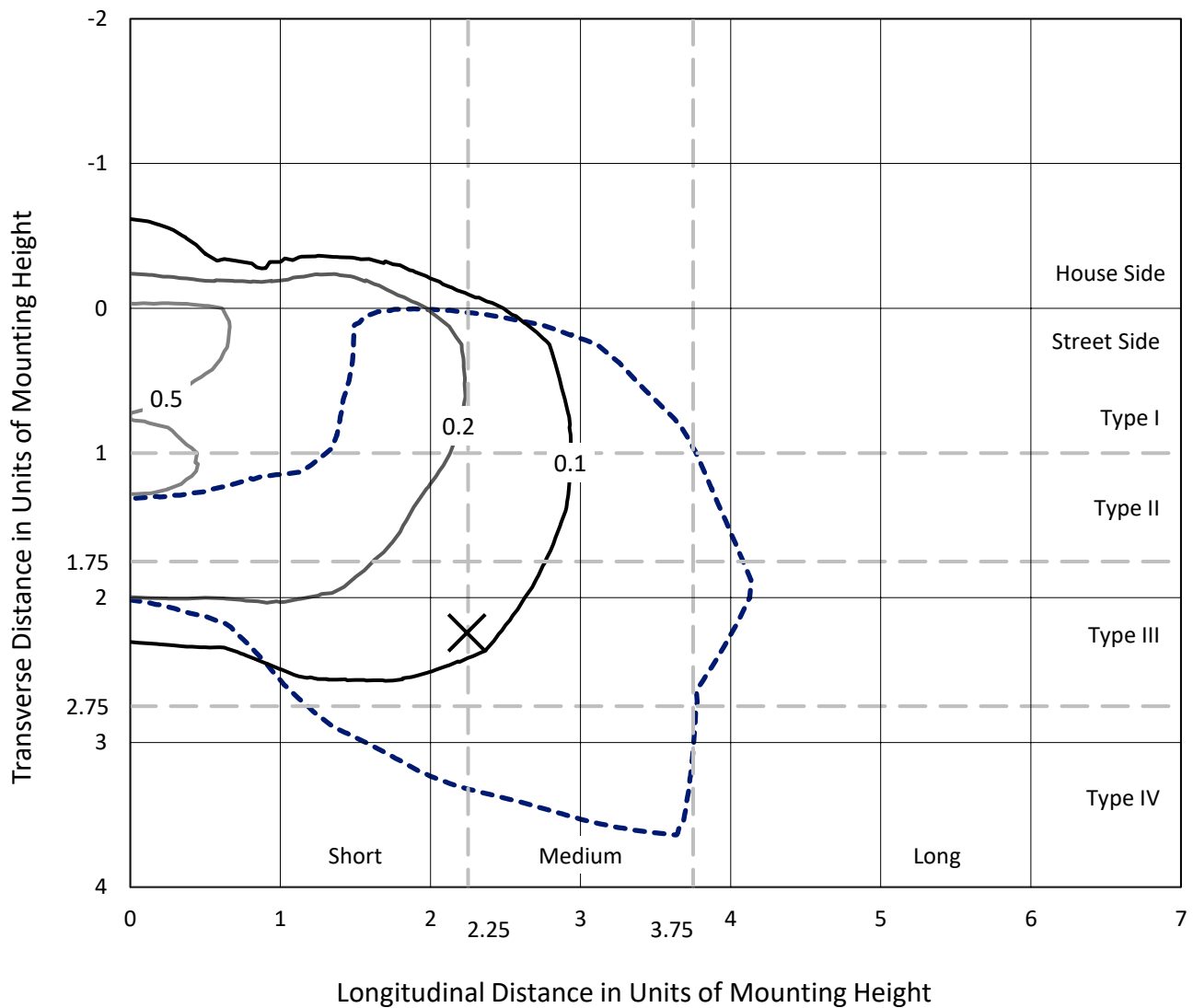


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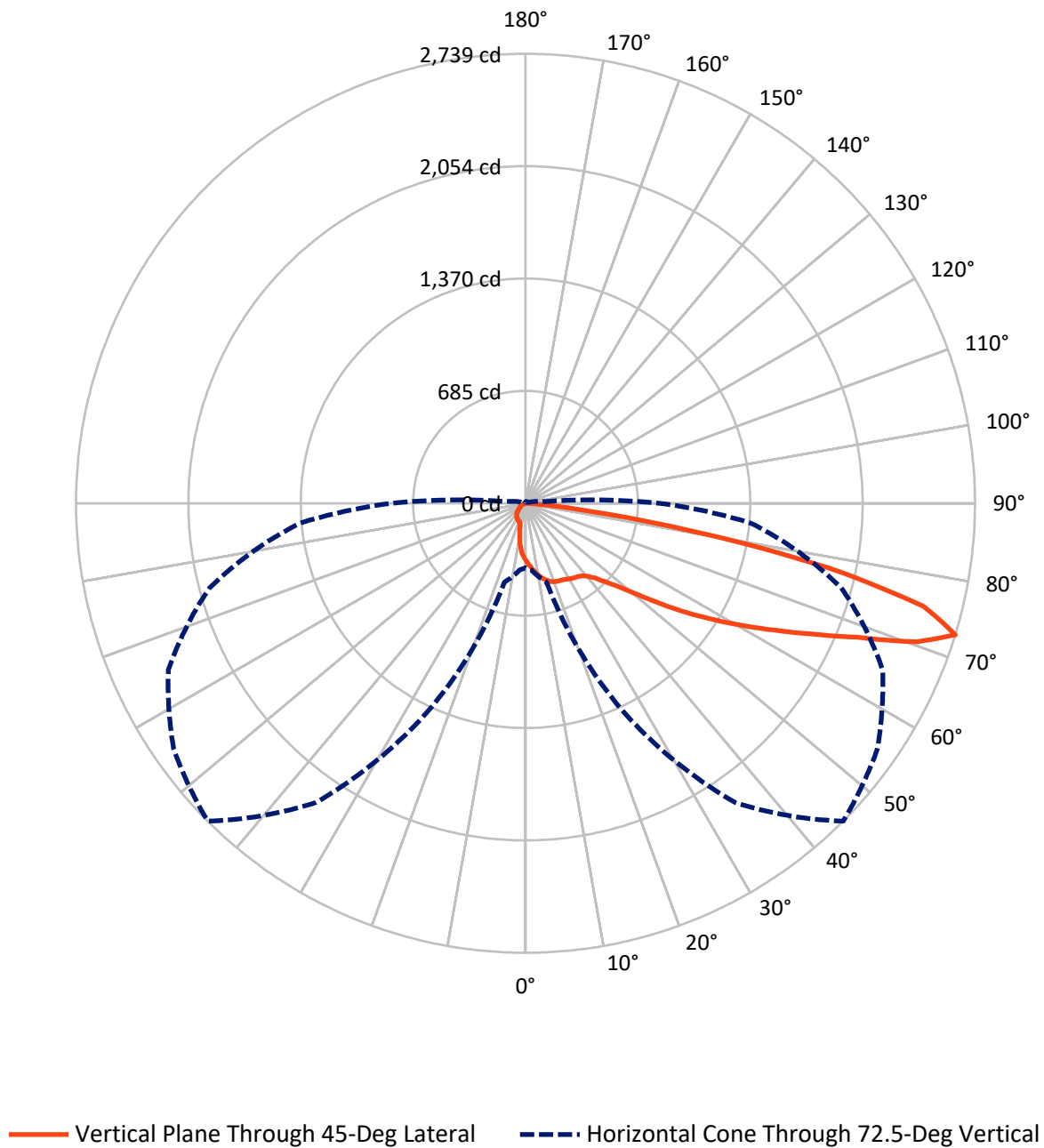
Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd



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Luminous Intensity Polar Plot



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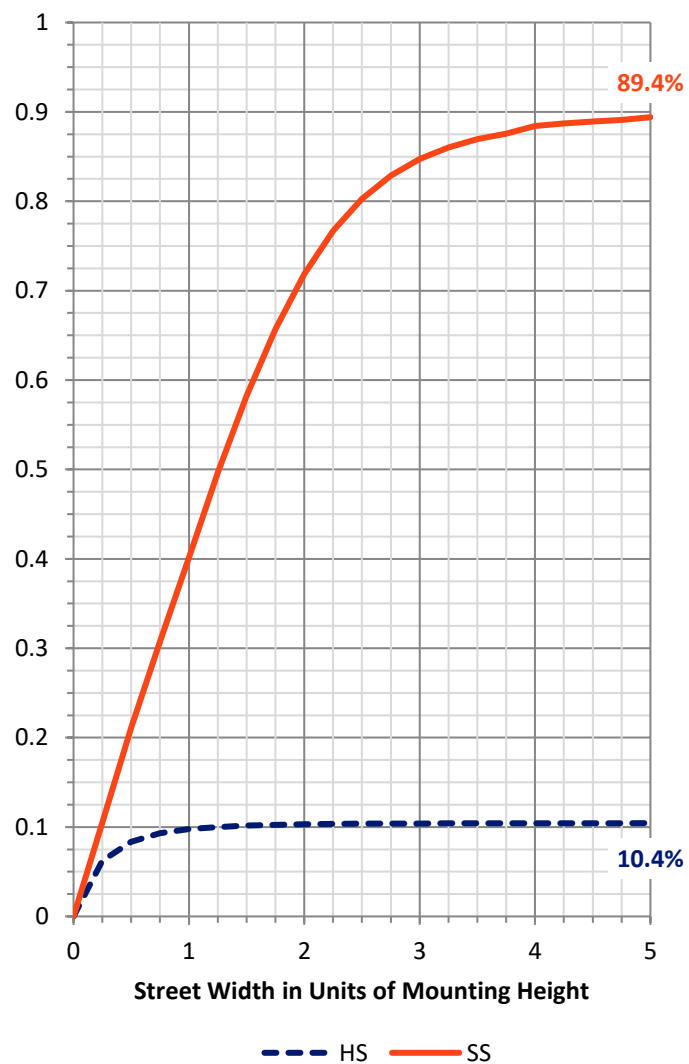
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	334.5	0.0	334.5
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	2849.1	0.0	2849.1
	% Fixture	89.5	0.0	89.5
Total	Lumens	3183.6	0.0	3183.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	32.9	1.0
10°-20°	96.0	3.0
20°-30°	157.7	5.0
30°-40°	223.7	7.0
40°-50°	369.7	11.6
50°-60°	664.2	20.9
60°-70°	922.2	29.0
70°-80°	668.9	21.0
80°-90°	48.4	1.5
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°	3183.6	100.0
0°-180°	3183.6	100.0

Coefficient of Utilization



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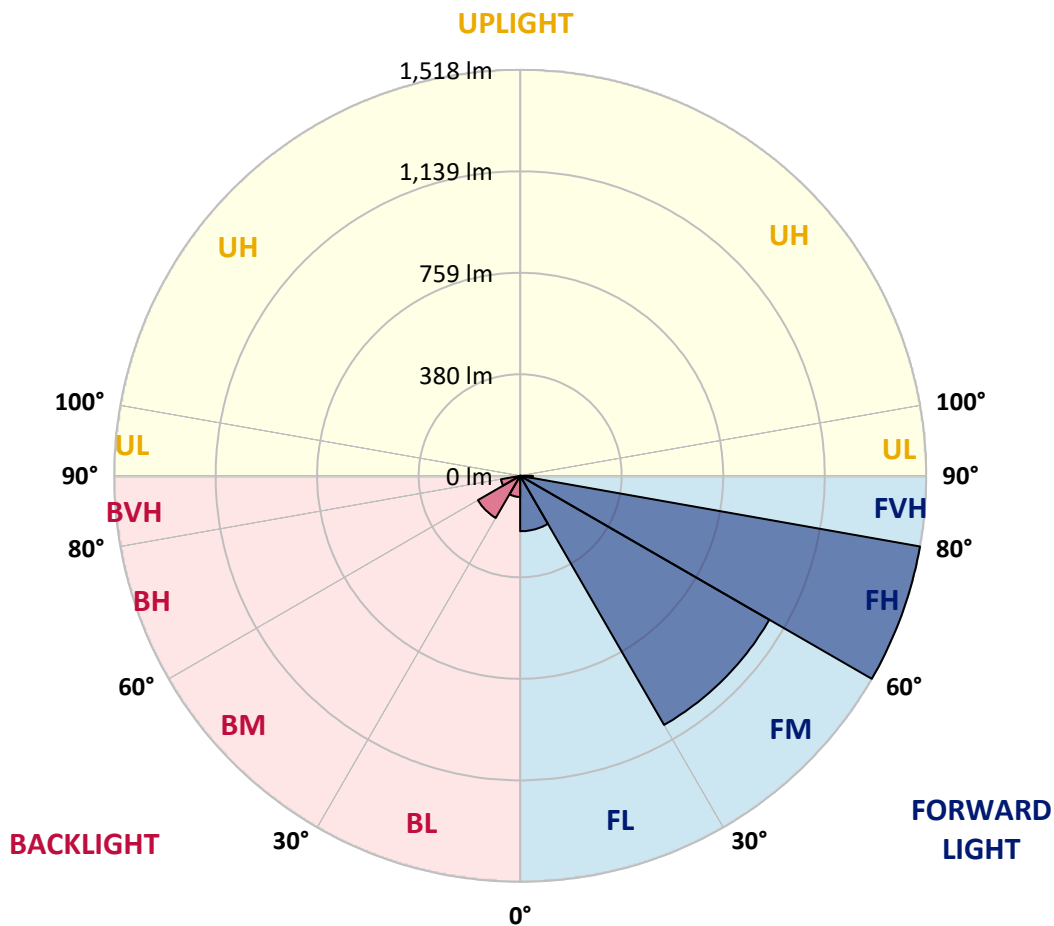
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	207.4	6.5			
FM	(30°-60°)	1075.6	33.8			
FH	(60°-80°)	1518.2	47.7			G1/1800
FVH	(80°-90°)	48.0	1.5			G1/100
BL	(0°-30°)	79.2	2.5	B0/110		
BM	(30°-60°)	181.9	5.7	B0/220		
BH	(60°-80°)	72.9	2.3	B0/110		G0/110
BVH	(80°-90°)	0.4	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G1

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	348.8	348.8	348.8	348.8	348.8	348.8	348.8	348.8	348.8	348.8	348.8
2.5°	380.9	381.6	381.2	378.5	374.2	371.8	370.5	366.1	363.4	358.3	353.1
5°	415.9	418.5	417.0	411.8	403.5	397.7	396.0	387.0	378.9	369.6	358.7
7.5°	453.0	454.4	451.5	444.8	433.8	423.7	422.2	409.8	397.0	382.6	367.9
10°	485.2	486.8	482.5	472.6	460.0	447.6	445.5	431.8	416.6	398.9	380.1
12.5°	512.2	513.7	508.1	496.3	482.5	469.6	467.4	453.0	436.3	416.8	393.3
15°	532.6	535.5	527.9	515.3	500.2	487.4	486.4	472.2	455.9	434.2	409.2
17.5°	544.6	547.3	540.2	525.0	512.2	501.3	500.0	488.3	473.0	452.2	424.7
20°	546.5	549.1	541.5	528.3	517.6	508.9	508.3	499.8	488.7	468.7	441.4
22.5°	540.7	543.9	537.0	526.3	519.0	514.3	513.5	508.7	502.5	485.4	456.9
25°	534.5	537.2	532.0	522.6	518.8	518.2	519.0	518.0	516.7	502.5	475.3
27.5°	534.1	537.0	531.1	522.1	520.0	524.6	525.2	529.3	530.4	517.8	492.8
30°	537.8	539.8	534.1	524.8	523.7	534.1	534.3	541.7	543.5	530.8	510.2
32.5°	545.9	548.1	542.4	528.7	527.2	541.7	542.4	552.2	555.0	544.8	528.5
35°	564.8	567.3	560.9	539.6	534.1	548.9	550.8	562.4	568.1	559.5	547.3
37.5°	611.9	604.3	595.4	561.5	550.0	560.3	563.4	577.0	586.9	577.2	570.0
40°	729.1	705.2	677.3	598.9	577.8	584.4	586.9	600.4	614.1	604.5	601.1
42.5°	904.9	876.6	831.9	684.9	619.7	623.0	624.9	636.7	656.0	648.4	649.3
45°	1061.5	1051.3	1005.7	831.9	698.2	682.1	684.5	690.6	719.0	716.3	721.9
47.5°	1181.9	1176.1	1140.8	1000.5	830.8	754.5	761.3	764.0	805.1	815.1	830.4
50°	1274.5	1272.3	1240.9	1150.5	1004.0	861.2	863.6	857.5	919.0	943.7	972.6
52.5°	1361.8	1369.2	1346.0	1289.8	1188.9	1000.9	1000.5	971.8	1054.8	1092.1	1141.5
55°	1440.7	1443.3	1445.8	1431.8	1374.9	1160.0	1155.9	1108.9	1212.4	1251.0	1304.5
57.5°	1514.8	1516.0	1537.2	1565.7	1568.6	1330.8	1323.2	1266.9	1384.5	1412.0	1444.8
60°	1564.6	1569.6	1614.6	1693.7	1728.3	1507.1	1502.9	1445.6	1559.6	1572.5	1566.3
62.5°	1492.9	1523.4	1636.7	1793.6	1879.0	1702.4	1700.4	1646.6	1743.8	1733.5	1681.3
65°	1208.5	1259.9	1459.4	1861.2	2027.0	1920.5	1923.4	1866.0	1933.2	1899.2	1774.7
67.5°	845.3	899.6	1135.6	1866.6	2192.4	2176.8	2193.1	2103.1	2134.2	2058.1	1796.9
70°	584.6	612.5	766.2	1749.8	2321.2	2529.7	2529.2	2394.3	2334.1	2130.5	1683.9
72.5°	393.1	407.6	497.6	1388.2	2226.5	2739.3	2726.7	2616.8	2401.5	1992.5	1375.8
75°	165.8	176.4	230.3	780.1	1761.5	2506.2	2472.1	2312.6	2133.7	1569.0	858.3
77.5°	52.6	57.2	90.8	279.2	970.3	1883.8	1847.8	1444.2	1430.1	787.1	313.8
80°	25.0	29.1	51.0	112.1	381.8	1024.6	1019.6	655.2	615.2	212.5	63.0
82.5°	10.9	12.8	28.3	60.0	170.8	365.5	372.9	222.9	184.5	80.7	19.4
85°	3.5	4.6	13.0	27.6	72.2	90.8	89.8	53.0	74.3	43.9	6.8
87.5°	0.0	0.0	4.3	6.3	7.4	5.2	5.8	4.6	20.6	12.2	2.4
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°	348.8	348.8	348.8	348.8	348.8	348.8	348.8	348.8	348.8	348.8	348.8
2.5°	350.5	347.1	340.9	335.3	330.3	325.3	322.3	318.0	317.4	317.4	318.6
5°	352.9	347.3	336.4	324.8	311.6	299.0	286.4	274.3	270.3	267.5	268.9
7.5°	359.9	351.0	333.7	311.8	286.6	259.0	239.6	218.8	210.7	206.4	207.0
10°	369.8	357.7	331.6	293.2	252.3	214.7	187.1	164.5	155.8	152.1	152.1
12.5°	380.9	365.9	327.7	269.9	214.7	169.7	142.8	132.3	131.0	131.0	131.0
15°	394.2	376.0	320.9	242.5	175.4	134.3	124.7	125.2	126.5	127.3	127.3
17.5°	407.8	386.6	310.3	211.9	140.6	120.8	121.1	121.7	122.8	123.6	123.6
20°	422.7	397.2	296.2	179.3	120.6	117.0	117.6	118.2	119.1	119.5	119.7
22.5°	438.5	407.2	279.4	147.3	113.9	113.7	113.9	114.5	115.6	115.6	116.0
25°	455.5	418.3	260.3	124.1	110.4	110.4	110.8	111.2	112.1	112.1	112.3
27.5°	472.8	428.6	240.2	111.9	107.3	107.1	107.1	107.8	108.2	108.4	108.6
30°	492.0	440.4	219.9	109.3	105.0	103.8	103.2	103.6	104.1	104.3	104.8
32.5°	511.6	452.0	201.9	110.4	102.6	100.7	98.4	98.0	98.0	98.9	99.5
35°	533.3	464.6	188.0	114.1	101.3	95.8	92.4	90.4	90.6	91.9	92.6
37.5°	559.3	479.8	177.7	117.4	100.3	90.4	84.8	82.4	80.9	82.4	81.9
40°	593.5	502.1	170.4	119.9	99.3	84.0	76.5	72.6	69.8	70.6	70.2
42.5°	643.7	537.4	167.6	120.1	97.0	76.7	68.1	62.8	58.6	58.9	58.0
45°	714.1	593.1	182.1	117.4	91.7	68.7	59.1	52.2	49.5	48.9	48.1
47.5°	810.6	674.0	215.8	111.5	84.0	60.9	50.4	44.6	42.6	41.5	40.9
50°	939.8	778.2	253.2	105.0	76.5	53.5	43.3	39.6	38.2	37.2	36.9
52.5°	1089.8	883.8	283.8	98.4	68.9	46.9	38.6	36.5	35.5	34.5	34.3
55°	1227.3	956.5	282.1	91.5	61.5	41.7	35.5	34.1	32.8	32.0	31.5
57.5°	1312.9	966.8	232.5	83.8	53.0	37.6	32.4	31.5	30.0	28.9	28.7
60°	1352.3	908.6	163.0	73.9	44.6	33.7	29.1	28.7	26.8	25.2	24.8
62.5°	1359.5	800.3	108.6	61.5	37.2	30.0	25.8	25.2	22.5	20.0	18.7
65°	1330.3	645.6	75.2	48.1	31.8	26.0	22.1	20.9	18.0	15.5	14.6
67.5°	1238.2	453.3	52.4	34.5	27.0	20.6	17.6	17.1	15.0	12.8	12.2
70°	1069.4	258.4	35.0	25.8	21.3	14.1	13.9	14.3	12.2	10.5	9.5
72.5°	819.9	118.2	21.7	18.9	14.6	9.5	11.1	11.3	9.3	7.8	7.0
75°	482.7	50.6	13.7	12.2	7.4	6.3	8.0	8.3	6.3	5.0	4.3
77.5°	164.3	19.2	8.7	7.2	3.7	3.5	5.2	5.2	3.5	1.9	1.5
80°	37.4	7.2	4.3	2.9	1.7	1.5	1.7	1.5	0.8	0.2	0.0
82.5°	10.7	2.9	1.7	1.1	0.6	0.6	0.2	0.0	0.0	0.0	0.0
85°	3.1	1.3	0.4	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.3	0.2	0.0	0.0	0.0	0.0	0.0	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)