

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: P959422

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

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P959422
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-4)
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-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 80 CRI, 2700K, 350mA LIGHTSQUARE WITH 26 LEDS AND TYPE II ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3386.6 lumens
Efficiency: N/A
Efficacy: 109.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B0 - U0 - G1

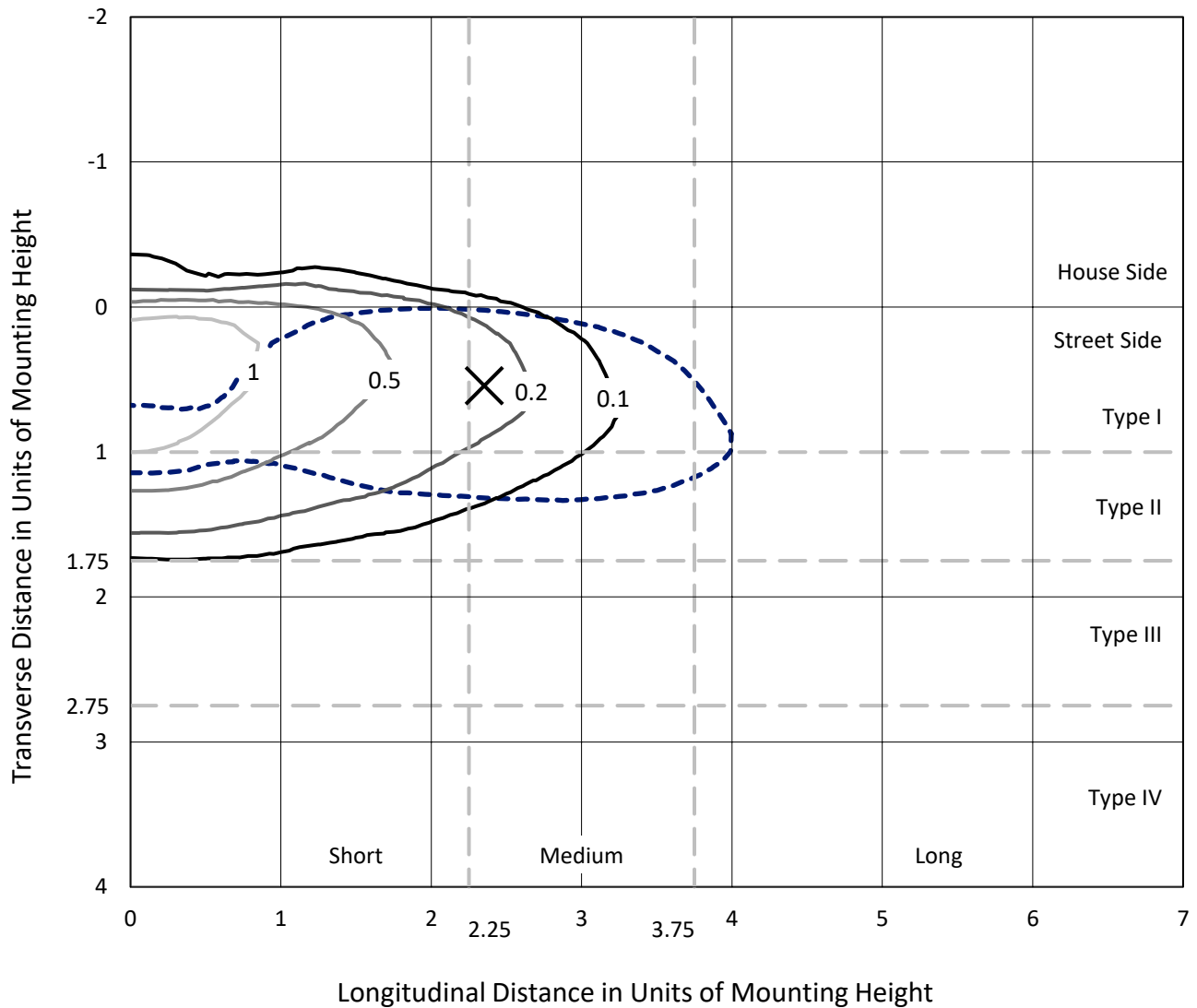
Input Watts (W): 30.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P959422
 CATALOG NUMBER: NVN-SB1A-827-U-T2R-HSS

Iso-Footcandle Lines of Horizontal Illumination

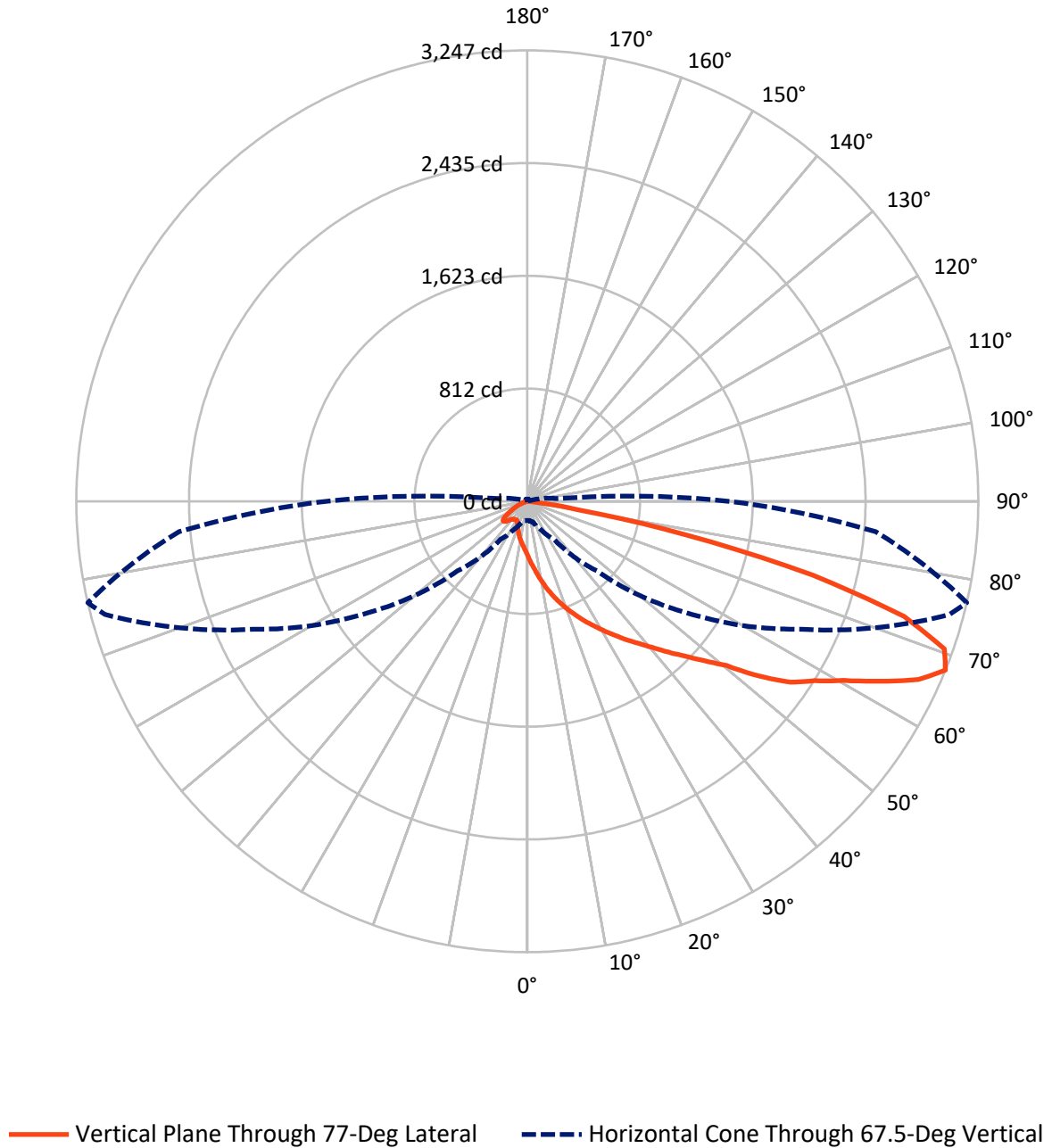
✕ Max cd
 - - - 1/2 Max cd



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

REPORT NUMBER: P959422
CATALOG NUMBER: NVN-SB1A-827-U-T2R-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P959422
 CATALOG NUMBER: NVN-SB1A-827-U-T2R-HSS

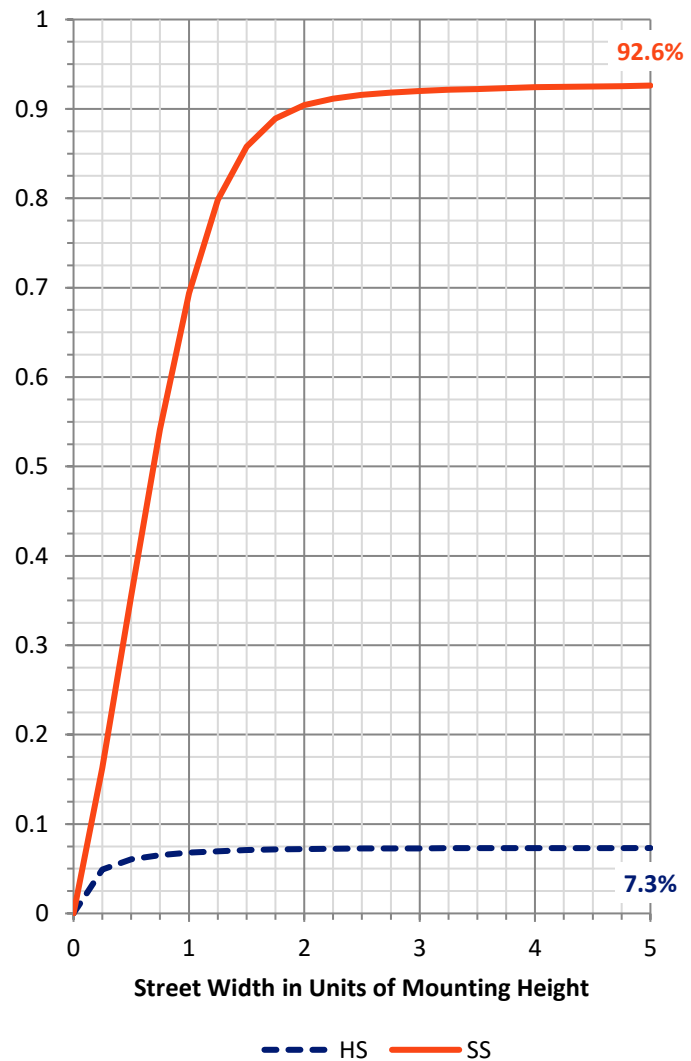
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	249.2	0.0	249.2
	% Fixture	7.4	0.0	7.4
Street Side	Lumens	3137.4	0.0	3137.4
	% Fixture	92.6	0.0	92.6
Total	Lumens	3386.6	0.0	3386.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	39.9	1.2
10°-20°	139.6	4.1
20°-30°	269.4	8.0
30°-40°	467.6	13.8
40°-50°	679.0	20.0
50°-60°	779.7	23.0
60°-70°	676.9	20.0
70°-80°	318.8	9.4
80°-90°	15.8	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°	3386.6	100.0
0°-180°	3386.6	100.0

Coefficient of Utilization



REPORT NUMBER: P959422

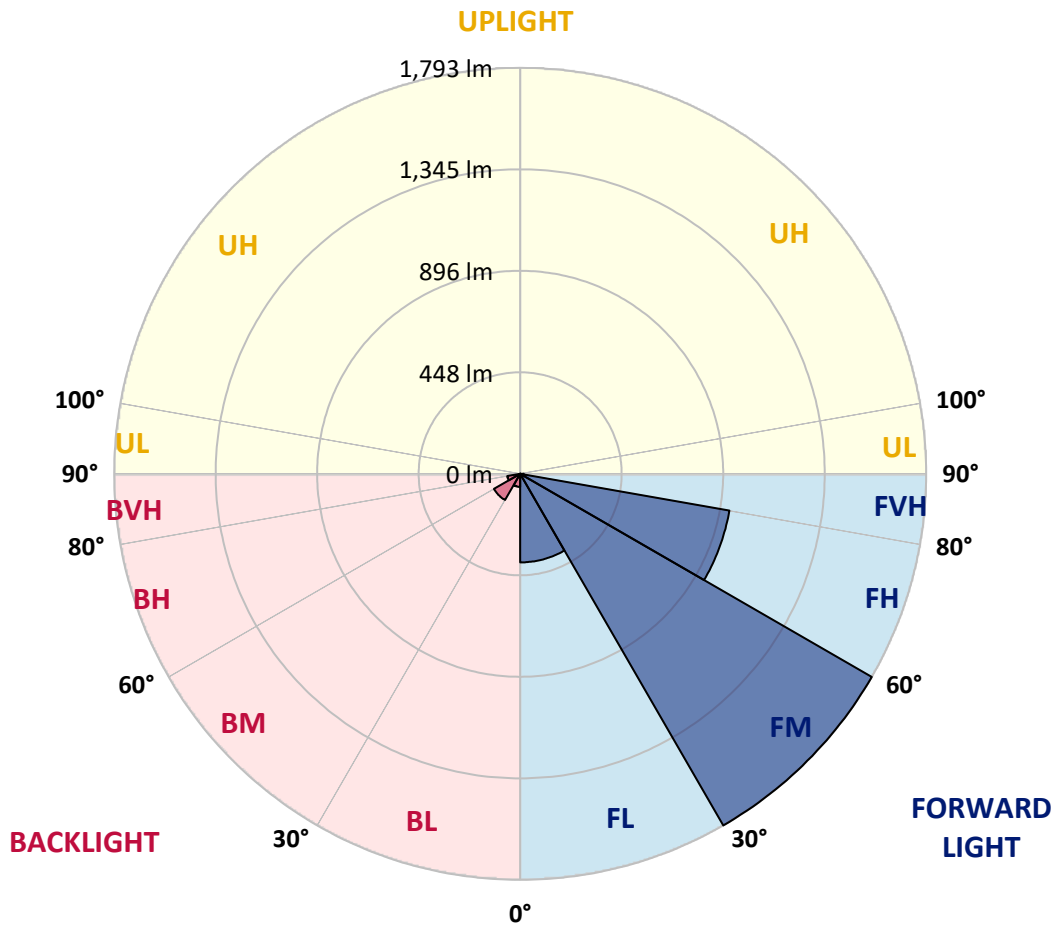
CATALOG NUMBER: NVN-SB1A-827-U-T2R-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	391.1	11.5			
FM (30°-60°)	1792.8	52.9			
FH (60°-80°)	938.1	27.7			G1/1800
FVH (80°-90°)	15.5	0.5			G1/100
BL (0°-30°)	57.7	1.7	B0/110		
BM (30°-60°)	133.5	3.9	B0/220		
BH (60°-80°)	57.7	1.7	B0/110		G0/110
BVH (80°-90°)	0.3	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 II Medium



REPORT NUMBER: P959422
 CATALOG NUMBER: NVN-SB1A-827-U-T2R-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	390.5	390.5	390.5	390.5	390.5	390.5	390.5	390.5	390.5	390.5	390.5
2.5°	540.7	544.1	539.3	529.9	516.1	507.1	484.9	464.1	441.0	433.7	410.5
5°	659.1	662.0	656.5	646.5	627.9	610.3	581.3	537.7	492.5	478.1	437.0
7.5°	746.8	748.5	746.3	737.1	719.4	699.5	667.1	615.5	548.5	532.5	469.6
10°	809.9	815.3	814.7	811.1	799.3	783.2	748.7	690.0	611.1	590.5	506.4
12.5°	851.7	857.8	861.4	869.4	868.8	858.4	828.2	766.1	673.6	649.4	547.9
15°	863.9	870.4	884.1	902.6	919.0	924.2	903.0	840.8	742.3	711.5	590.3
17.5°	857.0	867.0	883.4	912.7	948.6	972.4	970.1	912.9	804.8	769.5	631.9
20°	872.3	882.0	894.8	919.4	961.2	1004.4	1021.6	981.8	866.8	829.8	675.7
22.5°	957.2	955.6	956.8	960.8	985.8	1028.6	1064.2	1044.6	928.2	890.4	721.9
25°	1091.8	1084.3	1071.4	1049.8	1043.6	1064.2	1101.2	1100.0	993.0	952.4	769.3
27.5°	1246.2	1245.0	1214.9	1162.8	1133.3	1125.3	1143.0	1154.1	1057.2	1013.8	816.8
30°	1394.1	1397.5	1356.9	1298.8	1244.8	1213.4	1197.4	1205.4	1122.4	1080.1	865.8
32.5°	1522.7	1526.3	1482.1	1414.3	1347.4	1309.5	1275.9	1256.1	1193.4	1147.4	919.6
35°	1631.5	1635.1	1584.3	1509.3	1438.0	1403.7	1365.7	1311.6	1265.0	1222.0	979.6
37.5°	1728.7	1727.6	1659.7	1583.9	1513.9	1486.8	1466.9	1380.0	1338.5	1297.1	1046.0
40°	1786.1	1790.5	1732.5	1648.9	1581.1	1561.3	1559.9	1464.7	1423.5	1383.3	1118.8
42.5°	1802.9	1810.7	1768.6	1700.1	1638.5	1616.9	1650.0	1556.5	1522.3	1483.3	1201.0
45°	1772.6	1780.2	1761.1	1713.5	1677.5	1663.7	1727.4	1651.5	1627.9	1589.3	1293.8
47.5°	1684.3	1693.7	1698.3	1688.3	1687.9	1701.9	1796.8	1751.6	1753.3	1713.7	1401.2
50°	1513.3	1529.3	1571.7	1607.5	1662.9	1732.2	1864.3	1860.1	1894.6	1860.5	1541.3
52.5°	1202.5	1225.2	1371.6	1469.3	1593.7	1726.5	1938.6	2034.2	2142.6	2092.6	1738.7
55°	966.4	966.4	1085.4	1268.3	1458.7	1689.1	1970.9	2147.4	2311.4	2299.6	1877.8
57.5°	787.8	797.2	873.2	1034.8	1263.3	1599.9	1990.9	2218.4	2447.5	2438.9	2013.6
60°	486.3	506.7	650.1	809.6	1041.0	1441.1	1978.2	2290.4	2612.5	2619.5	2177.2
62.5°	273.8	281.4	345.3	582.5	809.4	1227.7	1881.8	2330.5	2823.7	2853.1	2345.9
65°	189.0	192.8	217.4	362.5	561.1	977.4	1693.1	2305.5	3035.2	3094.8	2488.9
67.5°	137.4	139.2	154.6	221.4	332.9	708.7	1397.5	2179.4	3147.4	3246.8	2516.3
70°	105.6	106.8	118.0	145.5	196.6	437.5	1014.9	1928.4	3066.2	3185.0	2376.2
72.5°	85.8	87.0	95.7	107.6	130.4	258.7	615.1	1566.1	2707.8	2836.1	2022.8
75°	72.4	74.0	81.8	89.6	102.2	166.2	288.5	1090.6	2036.4	2120.4	1406.7
77.5°	40.2	37.0	66.4	74.2	86.2	105.2	135.0	641.9	1140.4	1163.8	624.1
80°	25.0	25.8	52.8	59.8	66.2	53.0	61.8	247.1	395.3	375.6	121.0
82.5°	1.4	3.4	40.6	43.2	45.4	22.8	23.4	83.9	95.2	87.5	21.4
85°	0.0	0.0	18.6	15.0	15.8	6.6	6.8	19.6	12.8	13.8	4.2
87.5°	0.0	0.0	0.0	0.4	0.0	0.6	1.2	1.6	0.6	0.8	1.4
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: P959422
 CATALOG NUMBER: NVN-SB1A-827-U-T2R-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	390.5	390.5	390.5	390.5	390.5	390.5	390.5	390.5	390.5	390.5	390.5
2.5°	395.8	381.1	351.2	322.0	298.2	276.1	260.3	245.4	237.8	237.4	237.0
5°	407.7	376.9	317.1	264.3	221.9	187.8	165.7	150.0	142.0	139.2	138.8
7.5°	424.6	378.1	287.3	213.9	163.8	134.6	122.0	117.0	115.2	113.4	113.0
10°	445.9	381.1	260.6	172.2	129.1	114.4	109.4	107.2	106.0	104.8	104.3
12.5°	469.6	383.8	234.1	143.0	113.6	106.0	102.4	99.9	98.2	96.8	96.4
15°	492.7	385.5	206.5	122.6	105.6	99.4	95.7	93.0	90.6	89.0	88.8
17.5°	515.7	387.8	180.6	110.4	99.0	93.0	89.2	85.8	83.9	82.0	81.8
20°	541.1	387.3	156.2	101.8	92.6	86.4	82.4	79.2	77.4	75.3	75.0
22.5°	564.7	385.3	134.8	94.4	85.8	79.9	75.5	72.4	70.4	68.8	68.6
25°	591.7	383.6	117.0	87.7	79.5	73.6	68.8	65.8	63.8	62.2	62.0
27.5°	617.9	381.1	103.9	81.6	73.4	67.8	63.1	59.8	57.8	56.8	56.8
30°	643.5	380.5	99.0	75.7	68.0	62.2	57.6	54.4	53.0	52.6	52.4
32.5°	674.4	382.1	101.2	73.6	62.8	57.2	52.8	50.4	49.0	49.0	49.0
35°	707.5	381.7	104.3	75.5	59.6	52.2	48.8	47.4	45.8	45.8	45.8
37.5°	748.9	382.3	106.8	78.6	58.2	48.0	46.0	44.2	43.4	43.4	43.4
40°	810.7	403.1	105.6	81.4	57.8	45.0	41.2	40.6	40.0	40.0	40.0
42.5°	886.4	448.3	107.2	81.6	57.6	42.9	37.8	39.2	37.6	37.4	37.2
45°	969.2	497.7	118.0	77.2	57.4	41.8	36.2	37.6	35.4	35.4	35.4
47.5°	1051.4	546.7	128.9	70.8	56.8	41.6	34.7	33.8	33.2	33.4	33.4
50°	1164.8	586.7	133.1	62.2	55.4	41.2	32.0	32.2	31.8	32.2	32.2
52.5°	1288.3	595.1	128.0	52.6	51.1	40.0	30.0	31.0	30.7	31.2	31.2
55°	1365.3	586.1	105.8	43.8	44.6	35.0	28.2	29.8	29.8	29.8	29.8
57.5°	1444.7	547.7	75.0	35.6	37.0	28.6	26.5	28.8	28.6	28.4	28.4
60°	1501.9	485.3	49.4	29.2	29.4	23.6	24.6	27.2	27.0	25.8	25.8
62.5°	1544.7	416.6	31.8	24.8	22.5	21.2	22.5	24.6	23.8	21.4	21.0
65°	1539.9	321.3	24.4	21.2	18.6	18.6	19.6	21.4	19.0	15.2	14.8
67.5°	1450.0	217.4	20.2	17.8	15.6	15.4	16.2	17.8	16.2	12.8	12.4
70°	1289.6	142.2	16.2	13.8	12.4	11.4	13.0	15.4	13.6	10.4	9.8
72.5°	1046.6	86.6	12.2	10.0	9.0	7.4	10.4	12.6	11.0	7.6	7.2
75°	677.1	44.2	8.4	6.6	4.8	4.4	7.6	9.4	7.6	4.6	4.0
77.5°	259.1	18.6	4.6	3.0	2.6	2.2	4.2	5.6	3.2	1.0	0.8
80°	49.8	7.8	2.4	1.4	1.2	0.8	0.6	0.4	0.0	0.0	0.0
82.5°	8.6	2.6	0.8	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	3.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.0	0.0	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)