

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: LUMARK

Report Number: P959434

Luminaire Tested: **NAV-SB1A-827-U-T4W**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P959434
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-1)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB1A-827-U-T4W
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 80 CRI, 2700K, 350mA LIGHTSQUARE WITH 26 LEDS AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

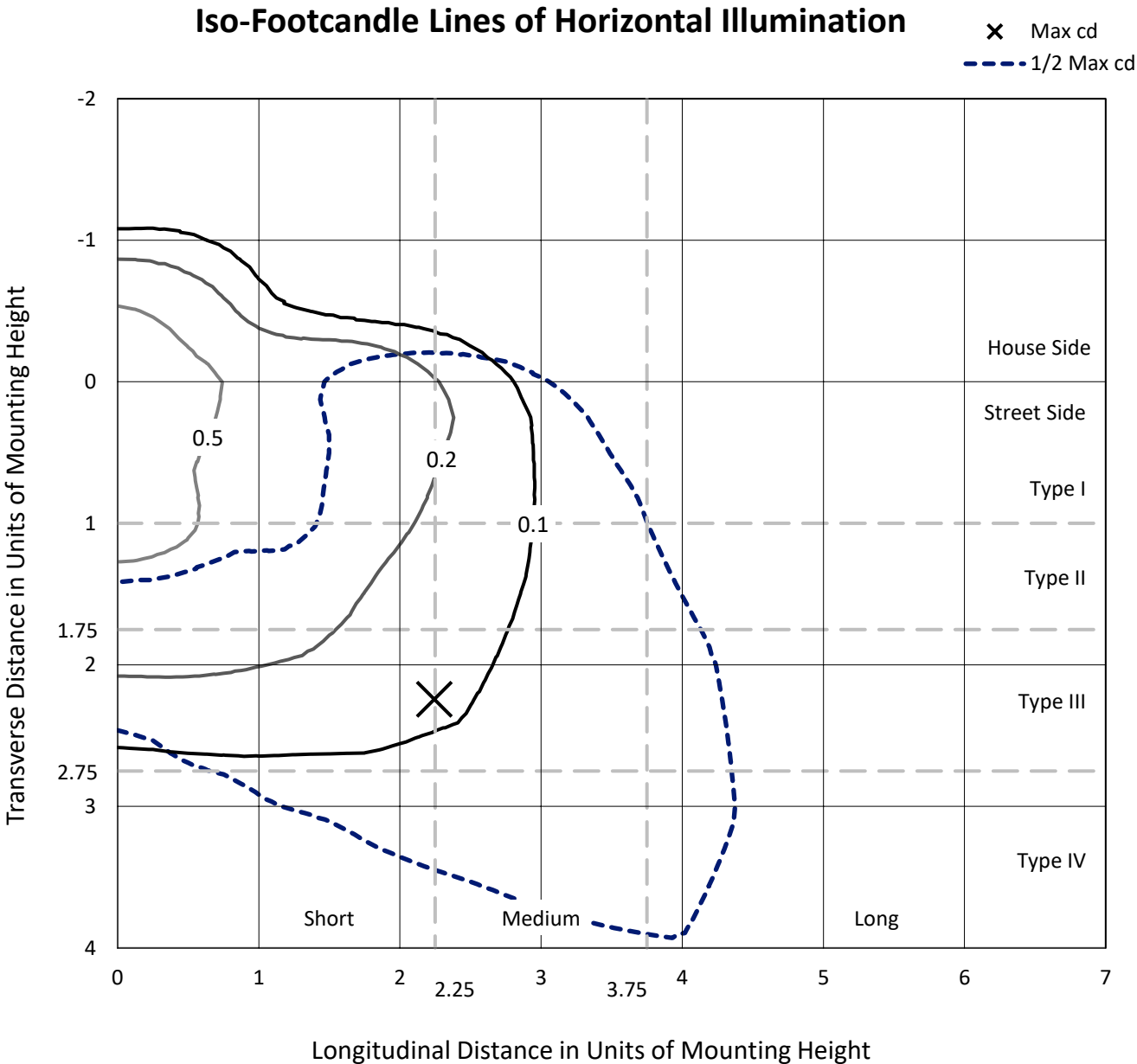
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3991.3 lumens
Efficiency: N/A
Efficacy: 129.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
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



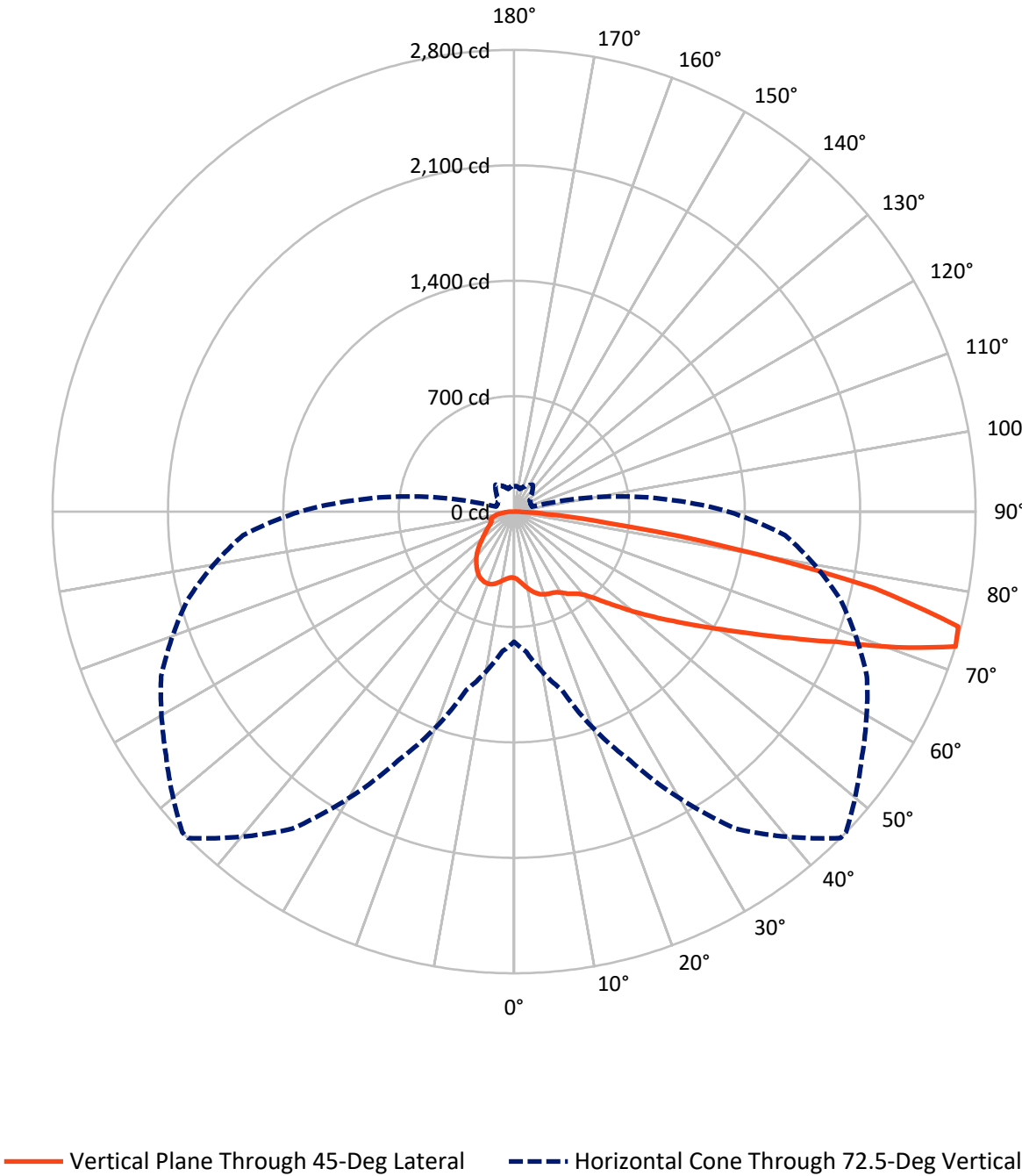
REPORT NUMBER: P959434
CATALOG NUMBER: NAV-SB1A-827-U-T4W



Based on 25 foot mounting height. Maximum calculated value = 0.8 fc
Type IV - Short - N/A

REPORT NUMBER: P959434
CATALOG NUMBER: NAV-SB1A-827-U-T4W

Luminous Intensity Polar Plot



REPORT NUMBER: P959434

CATALOG NUMBER: NAV-SB1A-827-U-T4W

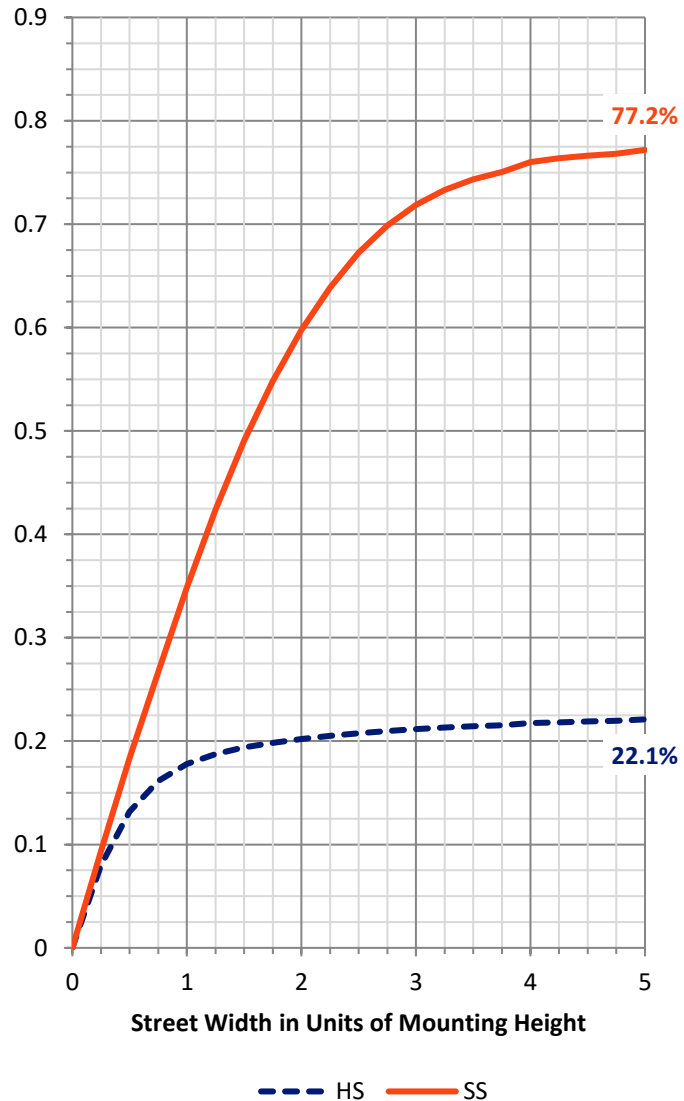
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	902.3	0.0	902.3
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	3089.0	0.0	3089.0
	% Fixture	77.4	0.0	77.4
Total	Lumens	3991.3	0.0	3991.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	41.0	1.0
10°-20°	136.6	3.4
20°-30°	237.7	6.0
30°-40°	340.7	8.5
40°-50°	479.8	12.0
50°-60°	734.9	18.4
60°-70°	1064.6	26.7
70°-80°	850.1	21.3
80°-90°	105.9	2.7
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°	3991.3	100.0
0°-180°	3991.3	100.0

Coefficient of Utilization



REPORT NUMBER: P959434

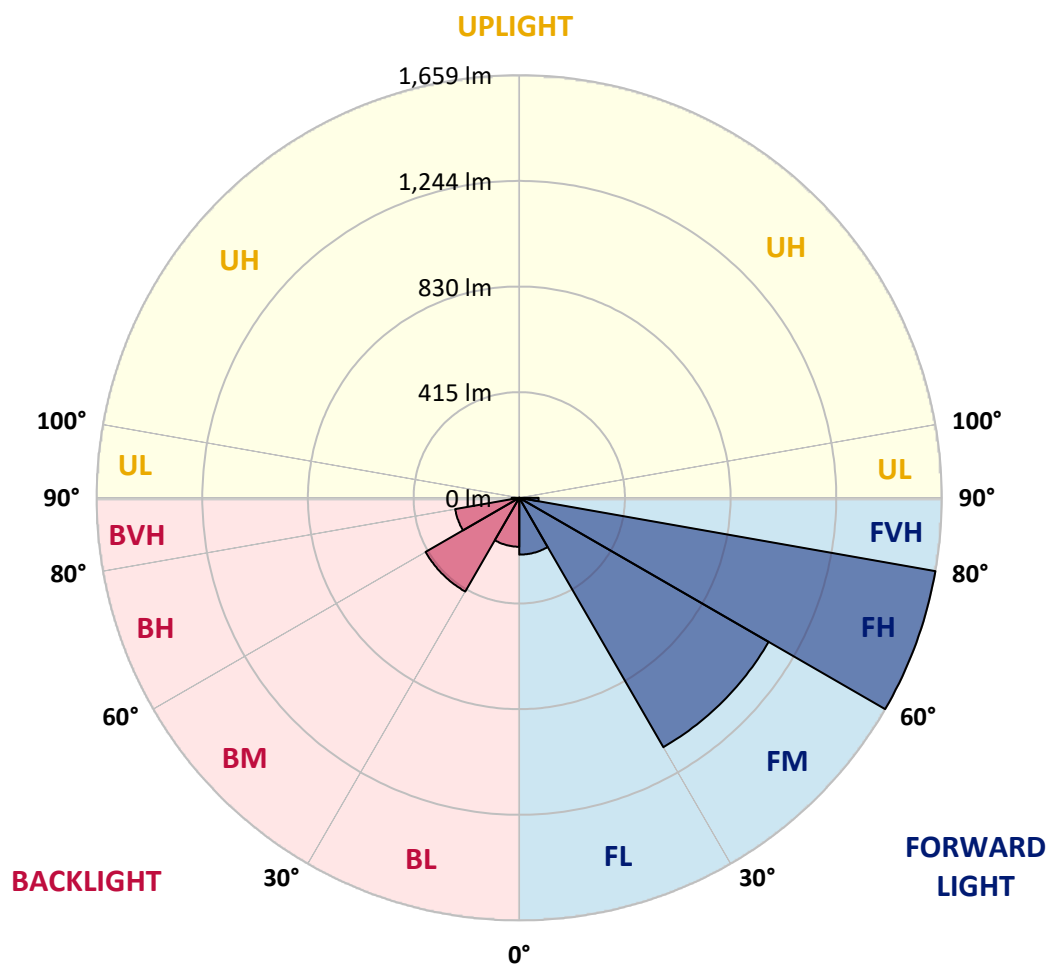
CATALOG NUMBER: NAV-SB1A-827-U-T4W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	223.2	5.6			
FM	(30°-60°)	1130.6	28.3			
FH	(60°-80°)	1659.3	41.6			G1/1800
FVH	(80°-90°)	76.0	1.9			G1/100
BL	(0°-30°)	192.1	4.8	B1/500		
BM	(30°-60°)	424.9	10.6	B1/1000		
BH	(60°-80°)	255.4	6.4	B1/500		G1/500
BVH	(80°-90°)	29.9	0.7			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 IV Short



REPORT NUMBER: P959434

CATALOG NUMBER: NAV-SB1A-827-U-T4W

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	402.6	402.6	402.6	402.6	402.6	402.6	402.6	402.6	402.6	402.6	402.6
2.5°	418.4	421.2	418.6	416.4	415.2	412.6	412.4	410.6	409.6	406.6	405.8
5°	447.6	451.2	447.0	442.4	438.2	431.4	430.6	425.8	420.4	414.0	410.4
7.5°	480.6	483.8	479.0	472.0	464.6	453.6	453.4	444.5	435.8	425.2	419.0
10°	509.4	513.6	507.2	497.6	488.4	475.8	474.4	464.2	453.4	439.4	430.2
12.5°	534.9	537.8	531.6	520.0	509.2	496.6	494.8	483.6	471.4	455.6	443.8
15°	555.0	558.8	550.4	538.0	526.7	514.3	512.6	502.6	490.4	473.8	458.6
17.5°	568.4	571.5	562.8	549.0	538.0	527.8	526.5	518.0	507.4	490.6	474.4
20°	573.4	576.8	567.7	553.6	543.6	535.6	534.9	528.8	521.4	506.1	489.7
22.5°	578.4	581.6	569.8	555.0	546.2	541.2	541.0	537.0	534.0	521.4	505.4
25°	598.8	599.6	583.9	562.6	550.0	545.6	545.4	545.2	546.4	536.6	522.5
27.5°	616.4	616.2	602.8	582.8	563.3	554.0	553.8	556.0	560.0	551.8	540.2
30°	642.4	640.0	624.0	603.2	585.4	571.0	569.8	568.0	571.0	564.6	557.8
32.5°	697.2	689.8	664.0	627.0	603.6	592.8	591.0	579.2	580.6	576.6	573.2
35°	775.8	766.2	731.7	672.0	626.4	610.8	610.0	595.0	592.6	589.0	590.2
37.5°	869.4	857.4	817.3	737.2	665.4	631.8	630.6	617.2	606.8	603.0	610.2
40°	963.4	948.2	915.0	816.6	723.1	667.0	663.0	642.6	630.8	624.4	639.6
42.5°	1054.6	1042.0	1013.6	905.8	794.2	718.2	709.4	674.6	665.6	659.8	687.2
45°	1135.4	1124.0	1103.2	1001.0	877.4	788.0	779.4	722.4	719.8	719.8	759.2
47.5°	1201.0	1198.5	1176.4	1098.2	975.6	867.6	852.6	789.1	796.4	807.8	861.6
50°	1273.8	1266.8	1243.2	1193.8	1091.0	958.6	946.4	870.9	898.4	929.6	1009.6
52.5°	1340.6	1344.4	1318.1	1293.6	1221.4	1060.2	1038.7	967.4	1026.9	1078.4	1183.2
55°	1409.4	1409.6	1402.2	1398.8	1358.1	1172.4	1148.8	1083.4	1178.1	1242.0	1385.4
57.5°	1473.9	1474.4	1485.3	1514.9	1516.6	1302.0	1275.2	1226.0	1346.1	1411.2	1594.0
60°	1531.6	1534.5	1564.4	1633.7	1656.0	1450.4	1425.2	1394.4	1519.8	1585.4	1813.3
62.5°	1550.9	1561.6	1628.0	1726.6	1793.7	1632.4	1607.6	1589.4	1702.3	1763.2	1996.6
65°	1518.1	1542.7	1671.2	1803.4	1935.4	1848.8	1824.2	1804.2	1891.9	1949.3	2147.2
67.5°	1437.6	1469.3	1668.6	1884.0	2107.4	2109.1	2086.2	2039.3	2095.2	2117.3	2196.2
70°	1225.4	1272.9	1521.6	1914.0	2304.9	2465.1	2443.0	2322.3	2298.2	2191.3	2058.2
72.5°	789.6	853.4	1120.5	1666.5	2348.8	2800.0	2798.8	2577.8	2362.3	2047.5	1650.8
75°	288.0	327.2	520.6	1046.0	1971.6	2783.0	2791.2	2534.1	2156.4	1581.6	1028.4
77.5°	105.0	114.8	169.8	402.0	1212.6	2233.0	2250.0	2025.9	1534.9	793.8	407.4
80°	55.0	60.6	87.0	156.0	519.6	1326.1	1352.8	1204.0	721.4	239.0	122.2
82.5°	30.4	33.0	48.8	84.8	234.0	567.0	583.0	475.6	253.8	101.4	50.4
85°	16.4	17.4	23.0	46.2	114.4	196.6	201.0	142.2	101.2	59.6	24.4
87.5°	4.8	5.8	7.6	14.8	44.8	44.2	45.2	28.2	40.0	30.0	8.0
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: P959434

CATALOG NUMBER: NAV-SB1A-827-U-T4W

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	402.6	402.6	402.6	402.6	402.6	402.6	402.6	402.6	402.6	402.6	402.6
2.5°	404.6	404.0	401.6	400.6	399.2	399.0	400.2	400.4	400.6	400.8	401.6
5°	408.4	406.2	404.2	402.8	403.2	403.4	405.6	407.0	408.2	409.0	409.4
7.5°	415.6	414.0	410.4	410.2	410.8	412.8	415.4	418.8	420.8	422.2	422.6
10°	426.6	423.4	419.2	419.8	421.2	423.8	429.6	432.3	435.4	438.2	437.6
12.5°	437.8	435.0	430.2	430.6	432.8	437.6	443.0	446.4	448.4	450.6	451.4
15°	452.2	447.4	442.2	442.2	446.0	451.2	453.8	456.4	457.8	460.0	460.9
17.5°	467.2	460.9	454.0	453.6	458.2	460.6	462.2	462.6	463.0	465.6	466.4
20°	482.2	475.2	465.4	464.4	465.6	465.1	464.8	464.4	465.1	468.2	469.6
22.5°	496.8	488.8	475.2	471.4	468.4	464.4	464.2	464.0	464.4	467.6	469.8
25°	514.0	504.4	486.2	474.8	464.8	459.4	460.0	460.2	460.6	463.2	466.6
27.5°	532.8	522.0	496.2	473.8	455.8	452.0	451.0	451.6	453.2	457.2	461.1
30°	551.6	538.9	505.4	469.6	444.5	439.2	435.8	437.4	442.0	446.0	450.4
32.5°	568.6	556.0	512.8	460.2	430.0	421.8	417.4	419.2	423.8	425.4	430.6
35°	588.6	574.2	516.0	445.6	414.2	401.6	395.8	393.0	395.2	393.8	398.4
37.5°	610.8	595.8	515.6	426.2	395.8	381.2	373.0	362.7	357.8	352.8	356.0
40°	643.8	622.4	510.6	402.8	372.8	359.6	344.8	327.4	316.4	306.6	307.2
42.5°	688.8	659.2	501.2	377.2	347.0	334.6	314.6	294.2	277.0	260.6	259.0
45°	755.9	707.4	489.7	349.8	319.0	306.8	285.2	262.2	242.6	221.6	219.0
47.5°	852.6	772.0	478.8	318.8	289.6	278.4	258.8	237.6	214.4	194.0	191.8
50°	985.5	865.0	468.6	288.4	260.6	252.2	236.6	214.8	191.6	175.2	174.0
52.5°	1154.6	991.4	464.4	259.2	233.4	230.2	217.8	197.6	175.6	161.6	160.6
55°	1348.6	1142.6	464.4	231.2	209.6	210.6	202.0	183.4	164.2	151.8	150.6
57.5°	1546.7	1295.6	456.0	205.4	189.4	193.8	188.4	172.0	154.8	142.0	139.8
60°	1729.2	1423.9	422.0	181.8	171.6	178.6	175.0	160.8	139.8	129.1	127.4
62.5°	1869.4	1496.2	356.4	163.2	156.8	164.8	163.0	146.2	137.0	132.6	131.2
65°	1939.6	1484.4	272.5	146.6	144.4	156.8	152.8	152.2	145.0	140.0	138.4
67.5°	1896.6	1383.1	197.6	134.4	137.4	149.4	164.8	167.4	154.2	144.2	142.6
70°	1707.5	1199.8	147.2	122.8	128.2	149.8	188.0	175.2	151.2	139.6	137.8
72.5°	1299.0	894.6	114.2	110.6	116.4	150.8	198.2	171.6	142.8	154.4	153.0
75°	742.8	491.2	91.6	95.6	101.8	140.8	193.0	162.4	136.2	141.8	141.8
77.5°	283.2	188.8	75.6	81.0	81.8	123.0	184.6	161.6	129.8	126.6	115.4
80°	98.2	73.8	62.6	64.4	63.2	109.4	177.0	140.6	106.2	95.0	91.8
82.5°	40.2	36.8	49.6	47.6	45.0	85.0	143.0	115.0	86.8	76.8	76.0
85°	17.4	23.4	32.8	28.8	26.0	58.8	114.6	97.4	73.4	63.2	63.0
87.5°	3.6	8.8	13.8	13.0	13.4	39.4	81.4	69.2	52.0	38.8	30.4
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)