

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: P959216

Luminaire Tested: **NAV-SB1A-722-U-T4W-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P959216
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: LUMARK
Catalog Number: NAV-SB1A-722-U-T4W-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 2200K, 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: 2926.4 lumens
Efficiency: N/A
Efficacy: 94.7 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

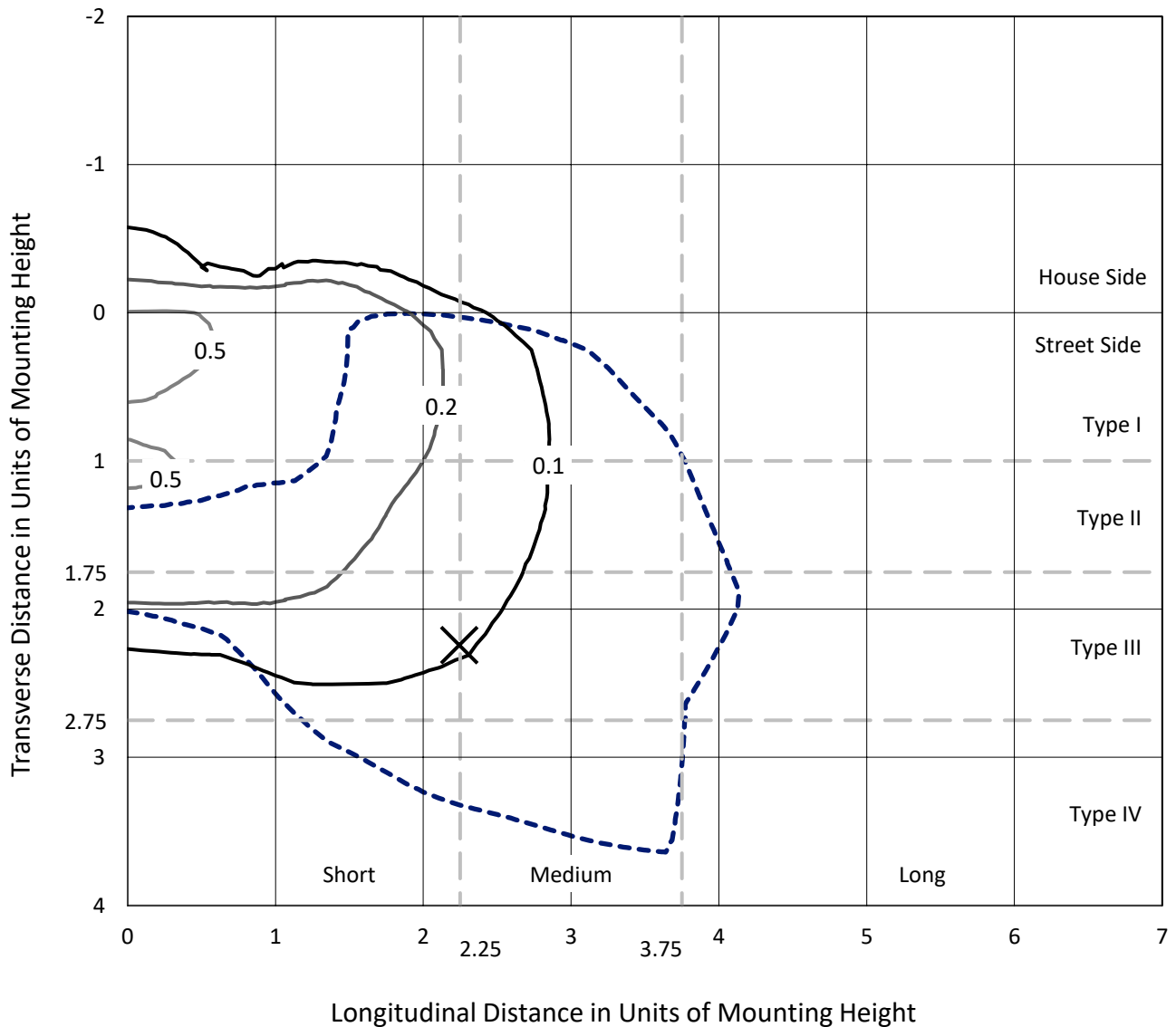
Input Watts (W): 30.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

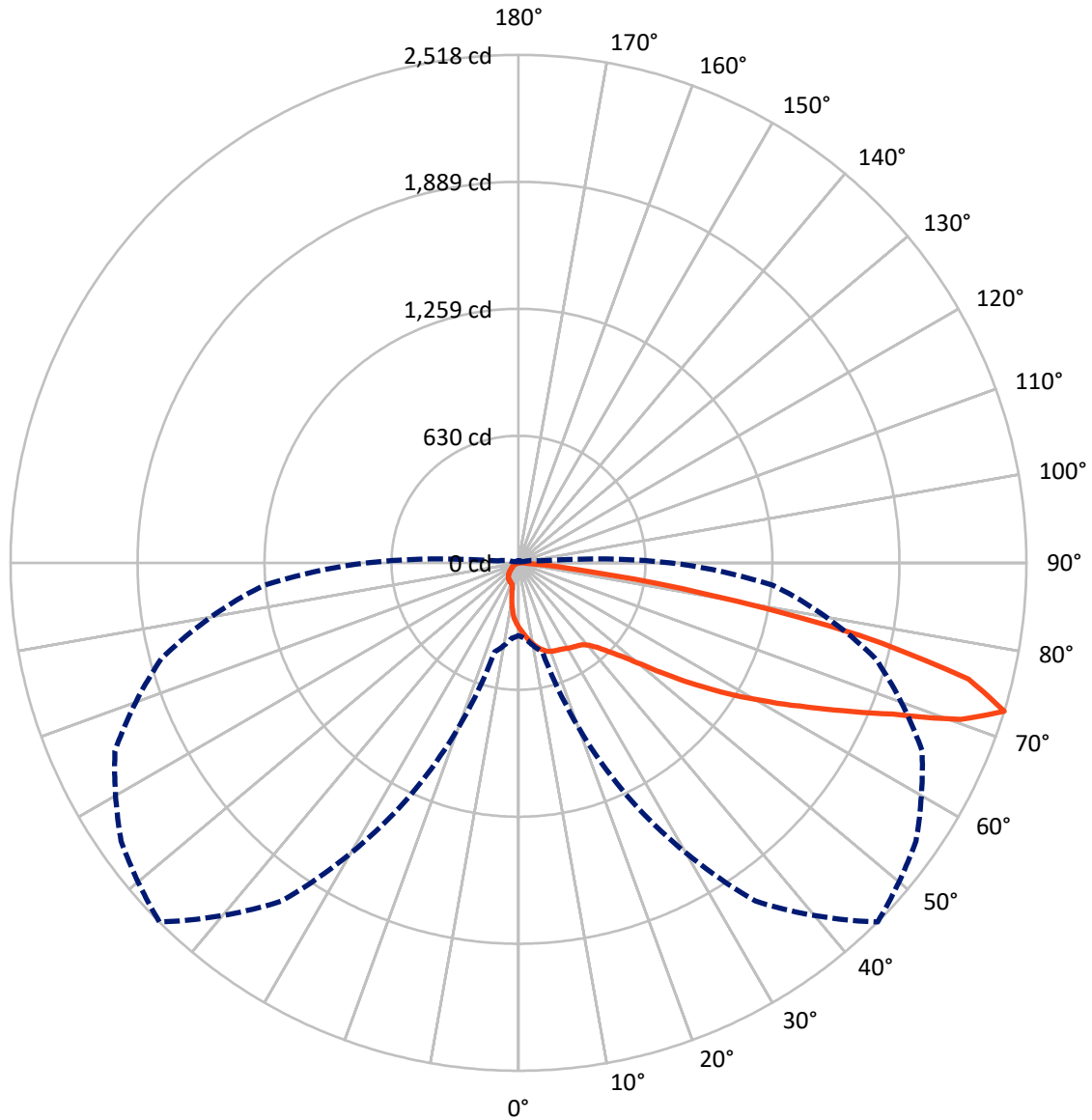
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.7 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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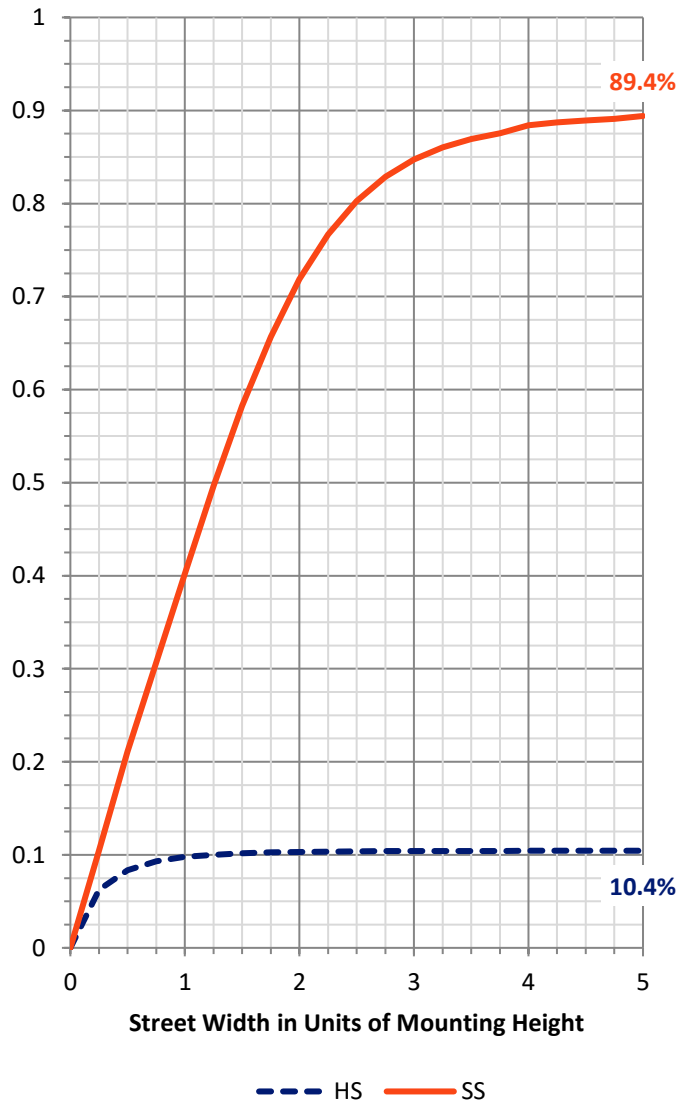
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	307.5	0.0	307.5
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	2618.9	0.0	2618.9
	% Fixture	89.5	0.0	89.5
Total	Lumens	2926.4	0.0	2926.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	30.2	1.0
10°-20°	88.3	3.0
20°-30°	145.0	5.0
30°-40°	205.6	7.0
40°-50°	339.8	11.6
50°-60°	610.5	20.9
60°-70°	847.7	29.0
70°-80°	614.9	21.0
80°-90°	44.4	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°	2926.4	100.0
0°-180°	2926.4	100.0

Coefficient of Utilization



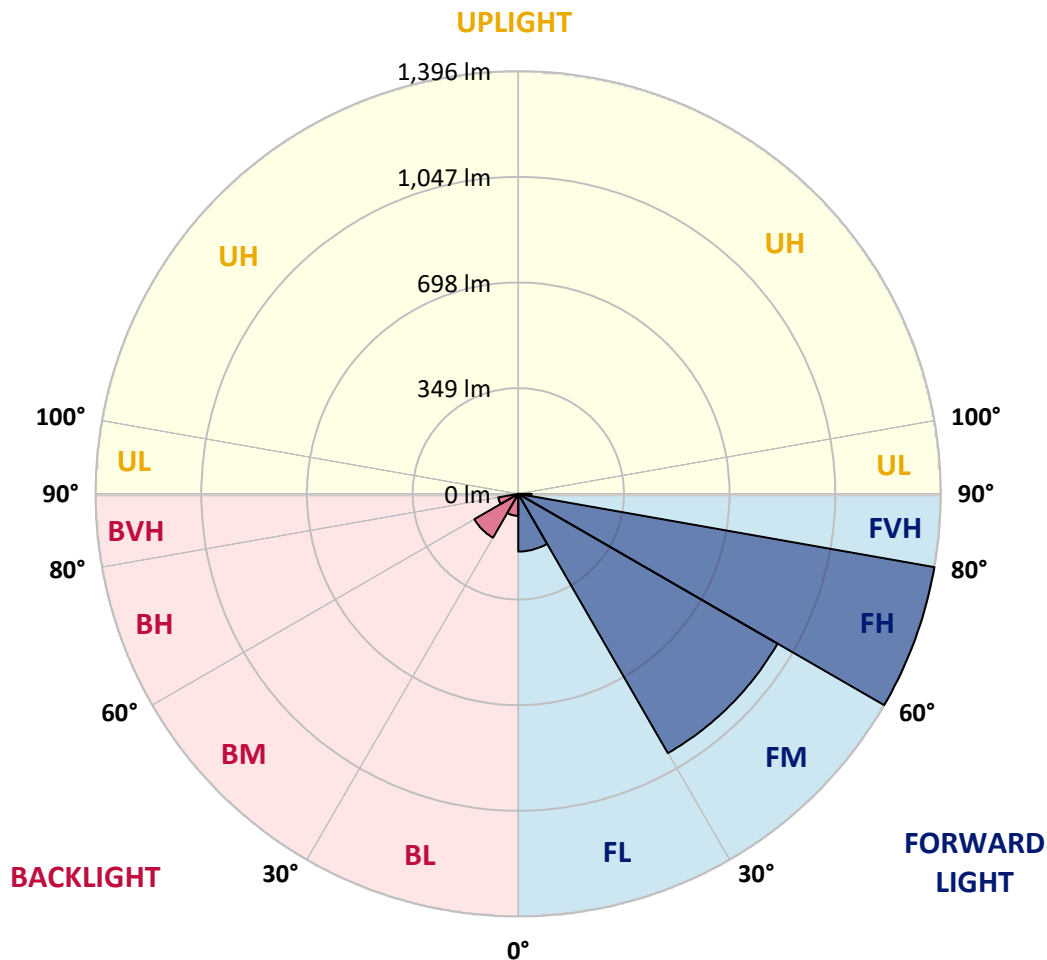
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	190.6	6.5			
FM (30°-60°)	988.7	33.8			
FH (60°-80°)	1395.5	47.7			G1/1800
FVH (80°-90°)	44.1	1.5			G1/100
BL (0°-30°)	72.8	2.5	B0/110		
BM (30°-60°)	167.2	5.7	B0/220		
BH (60°-80°)	67.1	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°	320.6	320.6	320.6	320.6	320.6	320.6	320.6	320.6	320.6	320.6	320.6
2.5°	350.1	350.8	350.3	348.0	344.0	341.7	340.6	336.6	333.9	329.3	324.6
5°	382.3	384.7	383.3	378.5	370.9	365.5	364.0	355.8	348.4	339.8	329.7
7.5°	416.5	417.7	415.0	408.9	398.7	389.5	388.1	376.7	364.9	351.8	338.1
10°	446.1	447.4	443.4	434.4	422.8	411.4	409.5	396.9	382.9	366.7	349.3
12.5°	470.8	472.2	467.0	456.2	443.4	431.6	429.7	416.5	401.1	383.1	361.5
15°	489.5	492.2	485.1	473.6	459.8	448.0	447.0	434.1	419.0	399.1	376.1
17.5°	500.6	503.2	496.6	482.6	470.8	460.8	459.6	448.8	434.8	415.6	390.3
20°	502.4	504.7	497.7	485.5	475.8	467.8	467.2	459.4	449.3	430.8	405.7
22.5°	496.9	500.0	493.5	483.8	477.0	472.8	472.0	467.6	461.8	446.2	420.0
25°	491.4	493.7	488.9	480.4	476.8	476.4	477.0	476.2	475.0	461.8	436.9
27.5°	491.0	493.5	488.2	480.0	478.0	482.2	482.8	486.6	487.6	476.0	453.0
30°	494.4	496.2	491.0	482.4	481.3	491.0	491.2	497.9	499.6	488.0	469.0
32.5°	501.7	503.8	498.6	486.0	484.6	497.9	498.6	507.6	510.1	500.7	485.7
35°	519.2	521.5	515.6	496.0	491.0	504.5	506.4	516.9	522.1	514.3	503.2
37.5°	562.5	555.4	547.3	516.2	505.5	515.0	517.9	530.3	539.6	530.5	524.0
40°	670.1	648.2	622.6	550.5	531.2	537.1	539.6	551.9	564.5	555.7	552.5
42.5°	831.8	805.8	764.6	629.6	569.7	572.7	574.5	585.3	603.0	596.0	596.9
45°	975.8	966.4	924.4	764.6	641.8	627.0	629.2	634.8	660.9	658.4	663.6
47.5°	1086.4	1081.1	1048.7	919.6	763.6	693.5	699.7	702.3	740.0	749.3	763.2
50°	1171.5	1169.5	1140.5	1057.5	922.8	791.6	793.8	788.2	844.7	867.5	894.1
52.5°	1251.8	1258.6	1237.2	1185.5	1092.9	920.0	919.6	893.3	969.5	1003.9	1049.3
55°	1324.3	1326.7	1328.9	1316.1	1263.8	1066.2	1062.4	1019.3	1114.4	1149.9	1199.0
57.5°	1392.5	1393.4	1413.0	1439.2	1441.8	1223.2	1216.3	1164.5	1272.5	1298.0	1328.1
60°	1438.2	1442.8	1484.1	1556.8	1588.5	1385.2	1381.4	1328.7	1433.6	1445.4	1439.7
62.5°	1372.3	1400.3	1504.5	1648.7	1727.2	1564.8	1563.0	1513.5	1603.0	1593.4	1545.4
65°	1110.8	1158.1	1341.5	1710.8	1863.2	1765.4	1767.9	1715.2	1776.9	1745.8	1631.3
67.5°	777.1	827.0	1043.9	1715.8	2015.3	2000.8	2015.9	1933.2	1961.6	1891.7	1651.7
70°	537.3	563.0	704.3	1608.3	2133.6	2325.2	2324.8	2200.8	2145.4	1958.3	1547.9
72.5°	361.3	374.7	457.5	1275.9	2046.6	2518.0	2506.4	2405.4	2207.3	1831.5	1264.5
75°	152.4	162.2	211.8	717.1	1619.1	2303.7	2272.3	2125.6	1961.3	1442.2	788.9
77.5°	48.4	52.6	83.5	256.7	891.9	1731.6	1698.4	1327.5	1314.6	723.4	288.4
80°	23.0	26.8	46.9	103.1	351.0	941.8	937.2	602.2	565.5	195.4	57.9
82.5°	9.9	11.8	25.9	55.1	157.0	336.0	342.8	204.9	169.5	74.1	17.7
85°	3.2	4.2	12.0	25.3	66.3	83.5	82.5	48.7	68.3	40.4	6.1
87.5°	0.0	0.0	4.0	5.8	6.8	4.8	5.4	4.2	19.0	11.2	2.2
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°	320.6	320.6	320.6	320.6	320.6	320.6	320.6	320.6	320.6	320.6	320.6
2.5°	322.2	319.0	313.4	308.2	303.6	299.0	296.2	292.2	291.8	291.8	292.8
5°	324.4	319.2	309.2	298.6	286.4	274.8	263.2	252.0	248.5	245.9	247.1
7.5°	330.8	322.6	306.8	286.6	263.4	238.1	220.3	201.1	193.7	189.7	190.3
10°	340.0	328.8	304.8	269.5	231.9	197.3	172.0	151.2	143.2	139.8	139.8
12.5°	350.1	336.4	301.2	248.0	197.3	156.0	131.2	121.7	120.4	120.4	120.4
15°	362.3	345.5	295.0	222.9	161.2	123.4	114.7	115.0	116.2	117.1	117.1
17.5°	374.9	355.4	285.3	194.7	129.3	111.0	111.2	111.8	112.9	113.7	113.7
20°	388.5	365.1	272.2	164.8	110.9	107.4	108.0	108.6	109.5	109.9	110.1
22.5°	403.1	374.3	256.9	135.4	104.7	104.4	104.7	105.3	106.3	106.3	106.7
25°	418.7	384.5	239.3	114.1	101.5	101.5	101.9	102.3	103.1	103.1	103.2
27.5°	434.6	393.9	220.7	102.9	98.7	98.5	98.5	99.1	99.4	99.6	99.8
30°	452.2	404.9	202.1	100.4	96.5	95.4	94.9	95.3	95.6	95.8	96.2
32.5°	470.2	415.4	185.5	101.5	94.3	92.5	90.5	90.1	90.1	90.9	91.5
35°	490.2	427.0	172.8	104.9	93.1	88.0	84.9	83.1	83.3	84.5	85.1
37.5°	514.1	441.1	163.4	107.8	92.2	83.1	77.9	75.7	74.3	75.7	75.3
40°	545.5	461.7	156.6	110.3	91.3	77.3	70.3	66.7	64.2	64.9	64.5
42.5°	591.6	493.9	154.0	110.5	89.1	70.5	62.5	57.7	53.9	54.1	53.3
45°	656.4	545.1	167.4	107.8	84.3	63.1	54.3	48.0	45.5	44.9	44.2
47.5°	745.1	619.6	198.3	102.5	77.3	56.0	46.3	40.9	39.2	38.1	37.5
50°	863.9	715.2	232.7	96.5	70.3	49.1	39.8	36.4	35.2	34.1	33.9
52.5°	1001.7	812.3	260.9	90.5	63.3	43.2	35.6	33.5	32.6	31.8	31.6
55°	1128.1	879.2	259.2	84.0	56.5	38.3	32.6	31.4	30.1	29.3	29.0
57.5°	1206.8	888.7	213.7	77.1	48.7	34.5	29.7	29.0	27.6	26.5	26.3
60°	1243.0	835.2	149.9	68.0	40.9	31.0	26.8	26.3	24.6	23.2	22.8
62.5°	1249.6	735.6	99.8	56.5	34.1	27.6	23.8	23.2	20.8	18.3	17.2
65°	1222.8	593.5	69.1	44.2	29.2	24.0	20.4	19.2	16.6	14.1	13.4
67.5°	1138.2	416.7	48.2	31.8	24.8	19.0	16.2	15.8	13.7	11.8	11.2
70°	983.0	237.5	32.2	23.8	19.6	13.0	12.8	13.2	11.2	9.6	8.8
72.5°	753.7	108.6	20.0	17.4	13.4	8.8	10.1	10.4	8.6	7.2	6.4
75°	443.6	46.5	12.6	11.2	6.8	5.8	7.4	7.6	5.8	4.6	4.0
77.5°	151.0	17.5	8.0	6.6	3.4	3.2	4.8	4.8	3.2	1.8	1.4
80°	34.3	6.6	4.0	2.6	1.6	1.4	1.6	1.4	0.8	0.2	0.0
82.5°	9.7	2.6	1.6	1.0	0.6	0.6	0.2	0.0	0.0	0.0	0.0
85°	2.8	1.2	0.4	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.2	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)