

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: P960271

Luminaire Tested: **NAV-SB1C-722-U-T4W**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P960271
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-SB1C-722-U-T4W
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 2200K, 615mA LIGHTSQUARE WITH 26 LEDS AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6331.4 lumens
Efficiency: N/A
Efficacy: 116.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

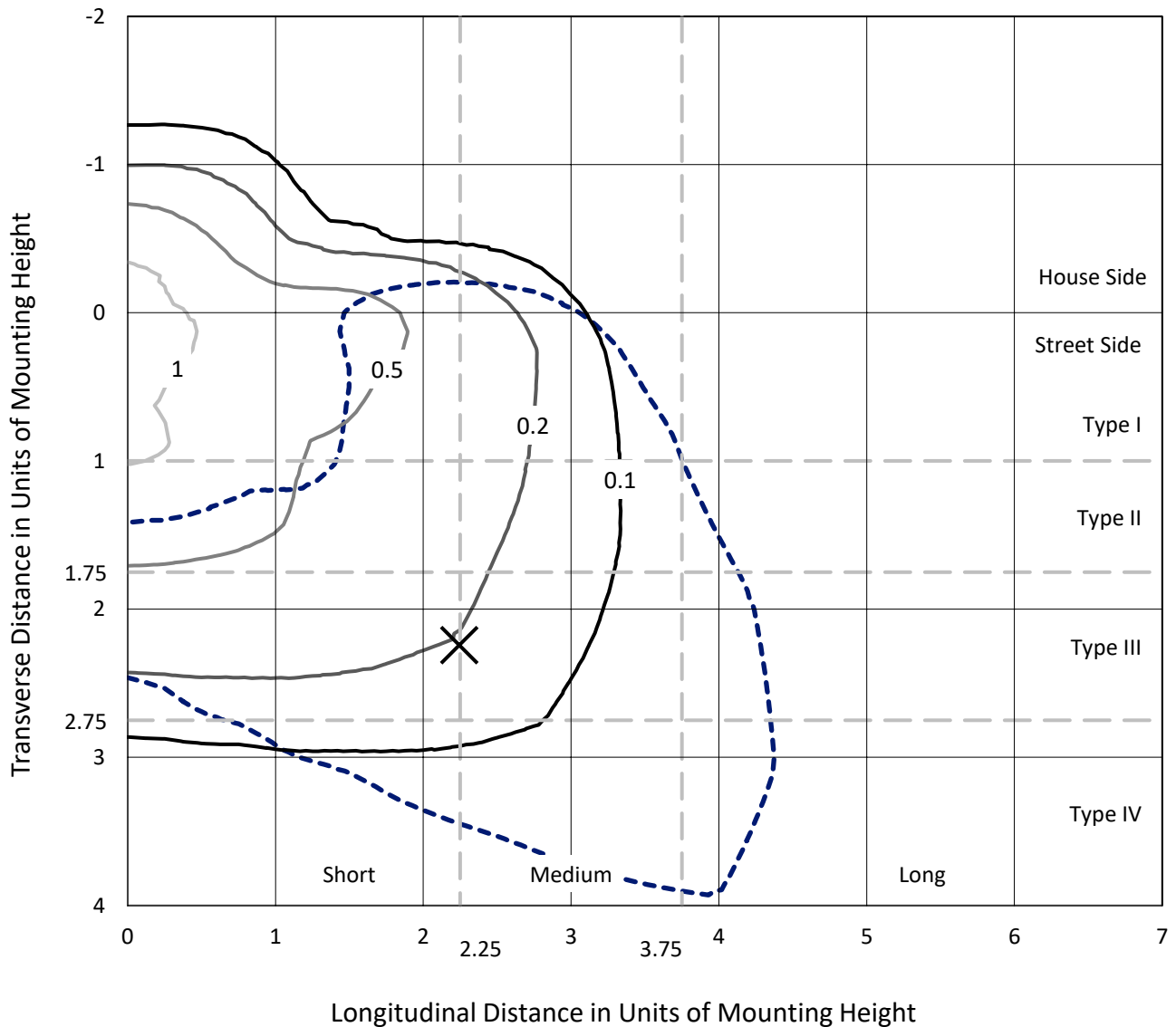
Input Watts (W): 54.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

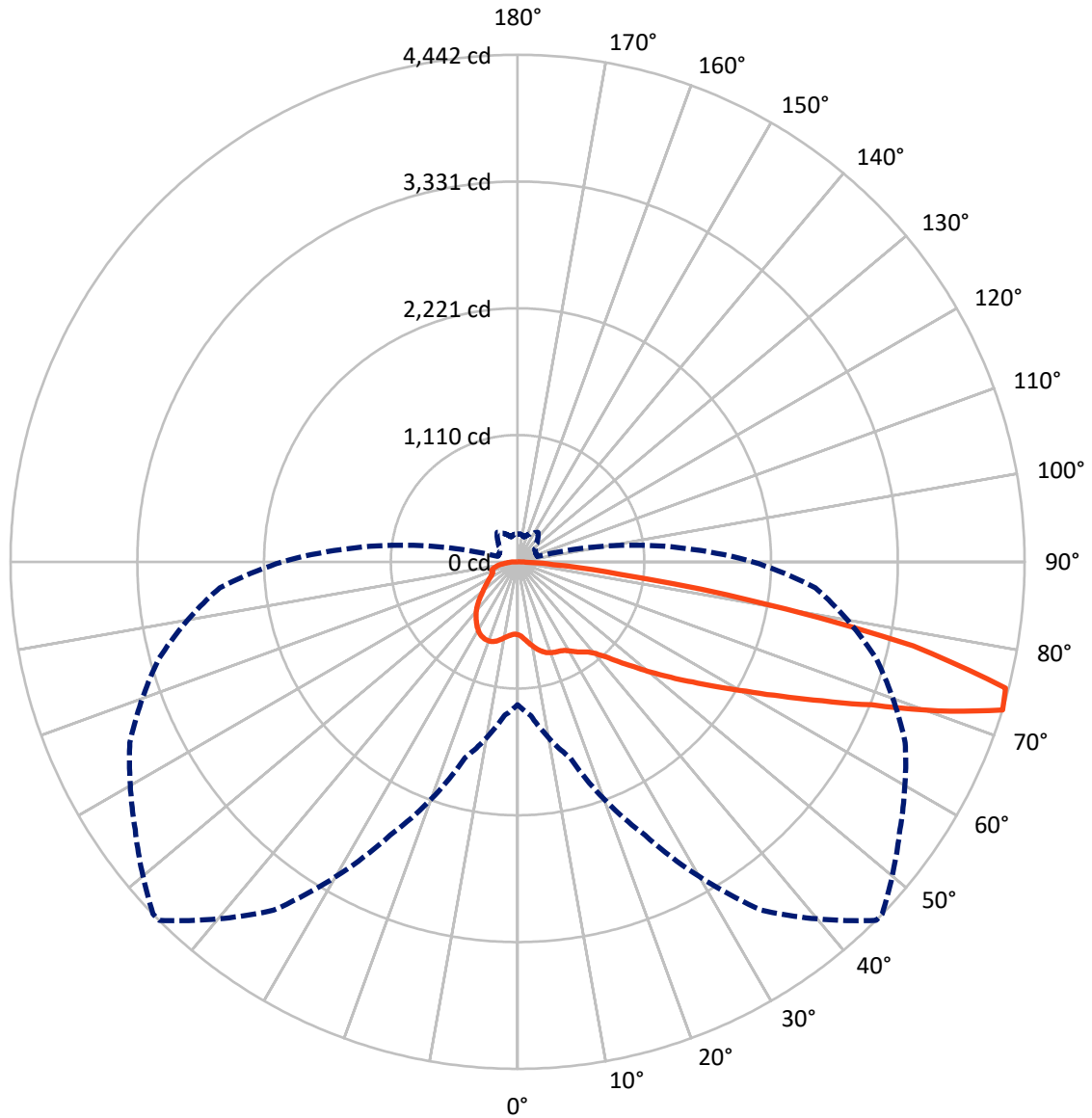
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.3 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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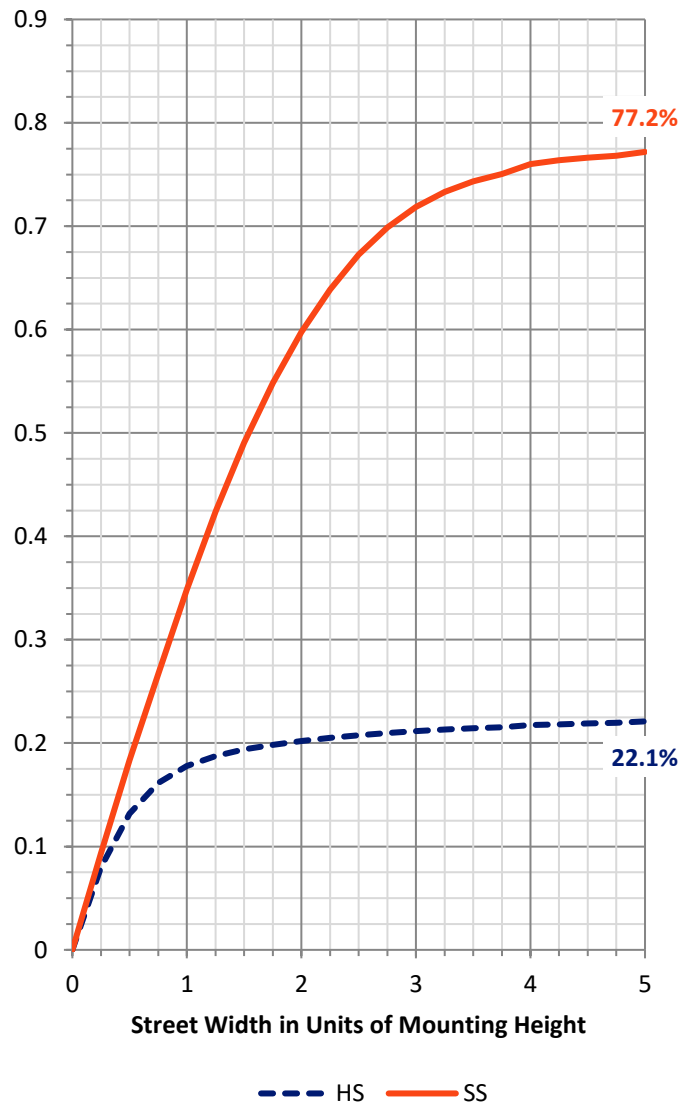
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1431.3	0.0	1431.3
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	4900.1	0.0	4900.1
	% Fixture	77.4	0.0	77.4
Total	Lumens	6331.4	0.0	6331.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	65.0	1.0
10°-20°	216.7	3.4
20°-30°	377.0	6.0
30°-40°	540.5	8.5
40°-50°	761.1	12.0
50°-60°	1165.7	18.4
60°-70°	1688.8	26.7
70°-80°	1348.6	21.3
80°-90°	168.0	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°	6331.4	100.0
0°-180°	6331.4	100.0

Coefficient of Utilization

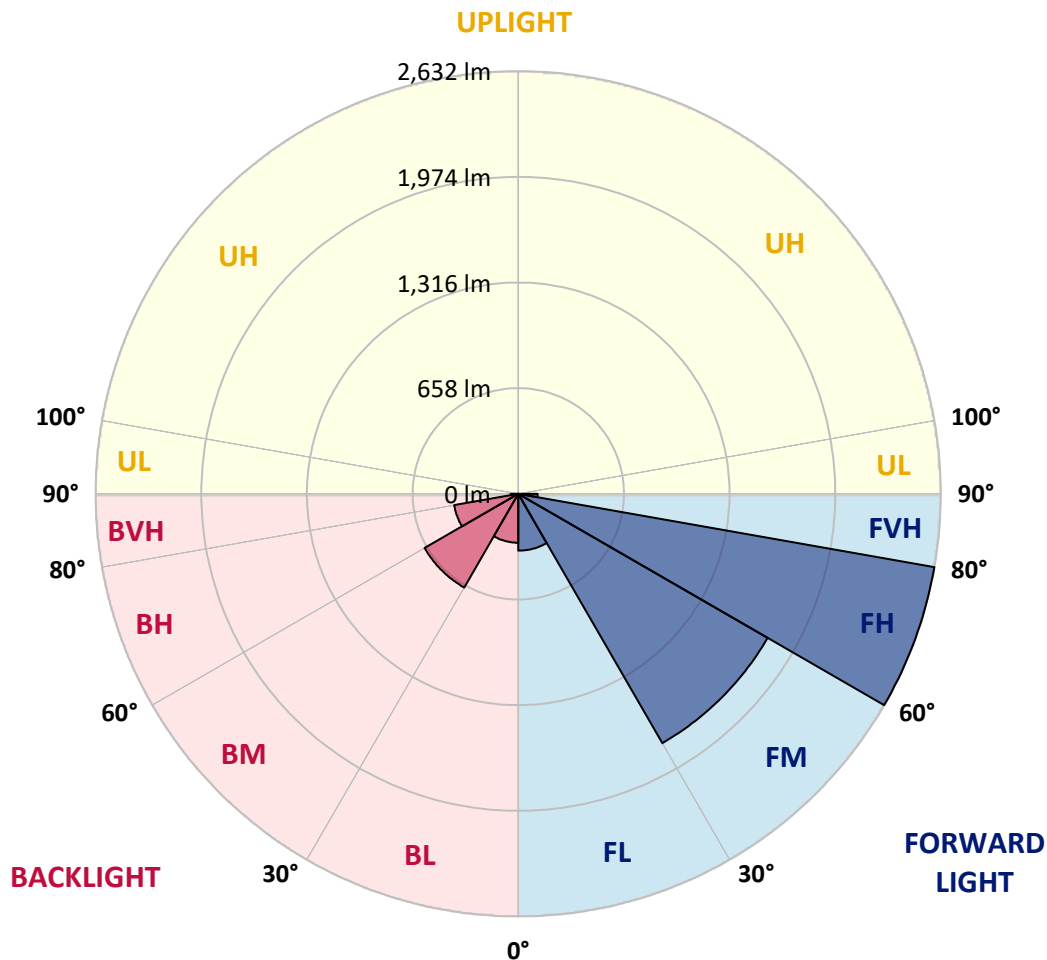


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	354.1	5.6			
FM (30°-60°)	1793.4	28.3			
FH (60°-80°)	2632.2	41.6			G2/5000
FVH (80°-90°)	120.5	1.9			G2/225
BL (0°-30°)	304.7	4.8	B1/500		
BM (30°-60°)	673.9	10.6	B1/1000		
BH (60°-80°)	405.2	6.4	B1/500		G1/500
BVH (80°-90°)	47.5	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-G2
 Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	638.7	638.7	638.7	638.7	638.7	638.7	638.7	638.7	638.7	638.7	638.7
2.5°	663.7	668.1	664.1	660.4	658.8	654.4	654.1	651.4	649.7	645.0	643.7
5°	710.1	715.8	709.1	701.7	695.1	684.4	683.1	675.4	666.8	656.7	651.1
7.5°	762.5	767.4	759.8	748.8	737.1	719.4	719.1	705.1	691.5	674.4	664.7
10°	808.1	814.8	804.5	789.5	774.8	754.8	752.5	736.5	719.1	697.1	682.4
12.5°	848.5	853.2	843.2	824.8	807.8	787.8	784.8	767.1	747.7	722.7	704.1
15°	880.6	886.5	873.2	853.5	835.5	815.8	813.1	797.1	777.8	751.4	727.4
17.5°	901.6	906.5	892.9	870.8	853.5	837.2	835.2	821.8	804.8	778.2	752.5
20°	909.6	914.9	900.6	878.2	862.2	849.5	848.5	838.9	827.2	802.8	776.8
22.5°	917.6	922.6	903.8	880.6	866.5	858.5	858.2	851.9	847.2	827.2	801.9
25°	949.9	951.2	926.2	892.6	872.5	865.5	865.2	864.9	866.8	851.2	828.8
27.5°	978.0	977.5	956.2	924.6	893.5	878.8	878.5	881.9	888.2	875.1	856.9
30°	1019.0	1015.3	989.9	956.9	928.5	905.9	903.8	900.9	905.9	895.5	884.9
32.5°	1106.0	1094.3	1053.3	994.6	957.6	940.2	937.6	918.9	920.9	914.5	909.2
35°	1230.7	1215.4	1160.7	1066.0	993.6	968.9	967.6	943.9	939.9	934.2	936.2
37.5°	1379.1	1360.2	1296.4	1169.3	1055.6	1002.2	1000.3	978.9	962.6	956.5	967.9
40°	1528.3	1504.2	1451.5	1295.4	1147.0	1058.0	1051.6	1019.3	1000.6	990.6	1014.6
42.5°	1673.0	1653.0	1607.9	1436.8	1259.7	1139.4	1125.3	1070.0	1056.0	1046.6	1090.0
45°	1801.1	1783.1	1750.1	1587.9	1391.8	1250.1	1236.5	1146.1	1141.6	1141.6	1204.4
47.5°	1905.2	1901.2	1866.1	1742.1	1547.6	1376.2	1352.5	1251.7	1263.4	1281.5	1366.8
50°	2020.6	2009.5	1972.2	1893.8	1730.7	1520.6	1501.2	1381.5	1425.2	1474.6	1601.7
52.5°	2126.6	2132.6	2090.9	2051.9	1937.5	1681.7	1647.7	1534.6	1628.9	1710.7	1876.8
55°	2235.6	2236.0	2224.4	2219.0	2154.3	1859.8	1822.4	1718.7	1868.8	1970.2	2197.7
57.5°	2338.0	2338.7	2356.1	2403.1	2405.8	2065.3	2022.8	1944.8	2135.3	2238.7	2528.5
60°	2429.5	2434.2	2481.5	2591.6	2626.9	2300.7	2260.7	2212.0	2410.8	2514.8	2876.4
62.5°	2460.1	2477.1	2582.6	2739.0	2845.4	2589.6	2550.2	2521.2	2700.3	2797.0	3167.2
65°	2408.1	2447.2	2651.0	2860.7	3070.2	2932.7	2893.8	2862.0	3001.1	3092.2	3406.1
67.5°	2280.4	2330.7	2647.0	2988.5	3343.0	3345.7	3309.3	3234.9	3323.7	3358.7	3483.8
70°	1943.8	2019.2	2413.8	3036.2	3656.2	3910.4	3875.3	3683.8	3645.5	3476.1	3264.9
72.5°	1252.4	1353.8	1777.5	2643.6	3725.9	4441.6	4439.7	4089.1	3747.3	3247.9	2618.6
75°	456.9	519.0	825.8	1659.4	3127.6	4414.7	4427.7	4019.7	3420.7	2508.9	1631.3
77.5°	166.5	182.1	269.5	637.8	1923.5	3542.1	3569.2	3213.6	2434.8	1259.1	646.4
80°	87.4	96.0	138.1	247.4	824.2	2103.6	2145.9	1909.8	1144.3	379.2	193.8
82.5°	48.4	52.4	77.4	134.4	371.3	899.5	924.9	754.5	402.6	160.7	80.1
85°	26.0	27.7	36.4	73.4	181.4	311.8	318.9	225.5	160.4	94.4	38.6
87.5°	7.7	9.3	12.0	23.4	71.0	70.0	71.8	44.7	63.3	47.7	12.7
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°	638.7	638.7	638.7	638.7	638.7	638.7	638.7	638.7	638.7	638.7	638.7
2.5°	641.8	640.7	637.0	635.4	633.3	633.0	634.7	635.1	635.4	635.7	637.0
5°	647.7	644.4	641.0	639.1	639.7	640.0	643.4	645.8	647.4	648.7	649.4
7.5°	659.4	656.7	651.1	650.8	651.7	654.8	659.1	664.4	667.4	669.7	670.5
10°	676.7	671.8	665.0	666.0	668.1	672.4	681.4	685.7	690.7	695.1	694.1
12.5°	694.4	690.1	682.4	683.1	686.4	694.1	702.7	708.1	711.5	714.7	716.1
15°	717.4	709.7	701.4	701.4	707.5	715.8	719.8	724.1	726.1	729.8	731.1
17.5°	741.1	731.1	720.1	719.4	726.7	730.7	733.1	733.8	734.4	738.4	739.7
20°	764.8	753.8	738.1	736.8	738.4	737.8	737.5	736.8	737.8	742.8	744.8
22.5°	788.1	775.5	753.8	747.7	743.1	736.8	736.5	736.2	736.8	741.8	745.1
25°	815.5	800.1	771.1	753.2	737.5	728.8	729.8	730.1	730.7	734.8	740.2
27.5°	845.2	828.2	787.1	751.4	723.1	717.1	715.4	716.5	718.7	725.1	731.4
30°	874.8	854.8	801.9	744.8	705.1	696.8	691.5	693.7	701.1	707.5	714.4
32.5°	901.9	881.9	813.4	730.1	682.0	669.1	662.0	665.0	672.4	674.8	683.1
35°	933.6	910.9	818.5	706.7	657.0	637.0	627.7	623.4	627.1	624.7	632.0
37.5°	968.9	945.3	817.8	676.1	627.7	604.6	591.7	575.3	567.6	559.6	564.7
40°	1021.3	987.3	809.9	639.1	591.3	570.3	547.0	519.3	501.9	486.3	487.3
42.5°	1092.6	1045.6	795.2	598.4	550.3	530.6	499.0	466.6	439.3	413.3	410.9
45°	1199.0	1122.0	776.8	555.0	505.9	486.7	452.2	415.9	384.9	351.6	347.6
47.5°	1352.5	1224.8	759.4	505.6	459.3	441.6	410.6	376.9	340.2	307.8	304.2
50°	1563.2	1372.2	743.4	457.6	413.3	400.0	375.3	340.9	303.8	277.9	276.1
52.5°	1831.5	1572.7	736.8	411.2	370.2	365.2	345.5	313.5	278.5	256.5	254.8
55°	2139.3	1812.4	736.8	366.8	332.5	334.2	320.5	290.8	260.5	240.8	238.8
57.5°	2453.4	2055.2	723.4	325.8	300.5	307.5	298.9	272.9	245.5	225.1	221.8
60°	2743.0	2258.7	669.4	288.5	272.1	283.2	277.5	255.1	221.8	204.8	202.1
62.5°	2965.4	2373.4	565.4	258.8	248.8	261.5	258.5	231.9	217.5	210.4	208.1
65°	3076.8	2354.7	432.2	232.5	229.1	248.8	242.5	241.5	230.1	222.1	219.5
67.5°	3008.5	2194.0	313.5	213.1	217.8	237.2	261.5	265.5	244.5	228.8	226.1
70°	2708.7	1903.1	233.5	194.7	203.5	237.5	298.2	277.9	239.8	221.5	218.4
72.5°	2060.6	1419.2	181.1	175.5	184.8	239.1	314.6	272.1	226.4	244.8	242.8
75°	1178.3	779.1	145.4	151.8	161.4	223.4	306.2	257.5	216.2	224.8	224.8
77.5°	449.3	299.5	120.0	128.4	129.8	195.2	292.8	256.5	205.8	200.8	183.1
80°	155.8	117.1	99.4	102.1	100.3	173.4	280.8	223.1	168.4	150.8	145.8
82.5°	63.8	58.3	78.7	75.3	71.3	134.8	226.8	182.4	137.8	121.8	120.4
85°	27.7	37.0	52.1	45.7	41.3	93.4	181.7	154.5	116.4	100.3	100.0
87.5°	5.6	14.0	22.0	20.7	21.3	62.3	129.0	109.8	82.4	61.7	48.4
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)