

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: P959754

Luminaire Tested: **NAV-SB1B-727-U-SL3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P959754
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-12)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB1B-727-U-SL3
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 2700K, 450mA LIGHTSQUARE WITH 26 LEDS AND TYPE III SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5233.6 lumens
Efficiency: N/A
Efficacy: 131.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B1 - U0 - G2

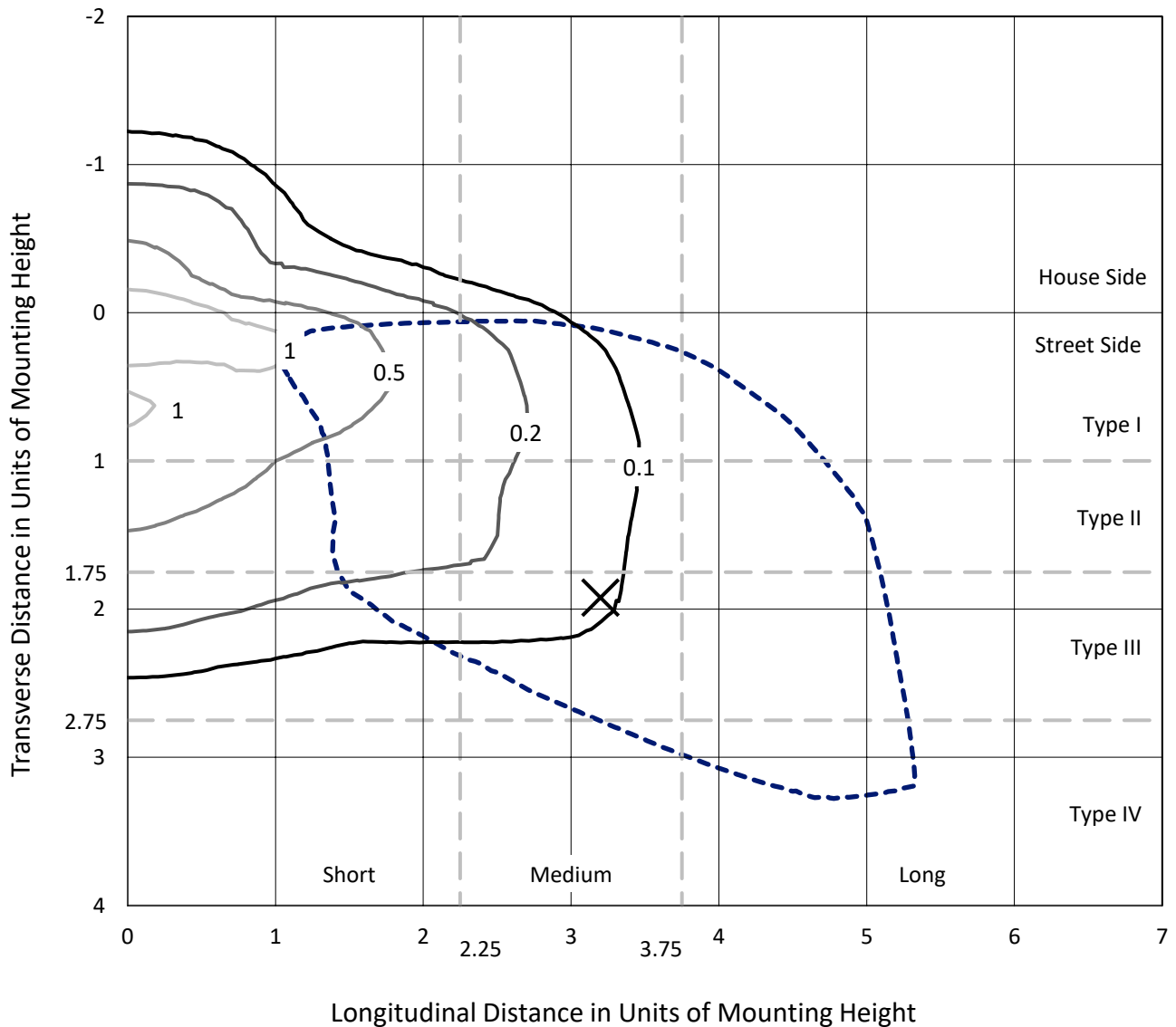
Input Watts (W): 39.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P959754
 CATALOG NUMBER: NAV-SB1B-727-U-SL3

Iso-Footcandle Lines of Horizontal Illumination

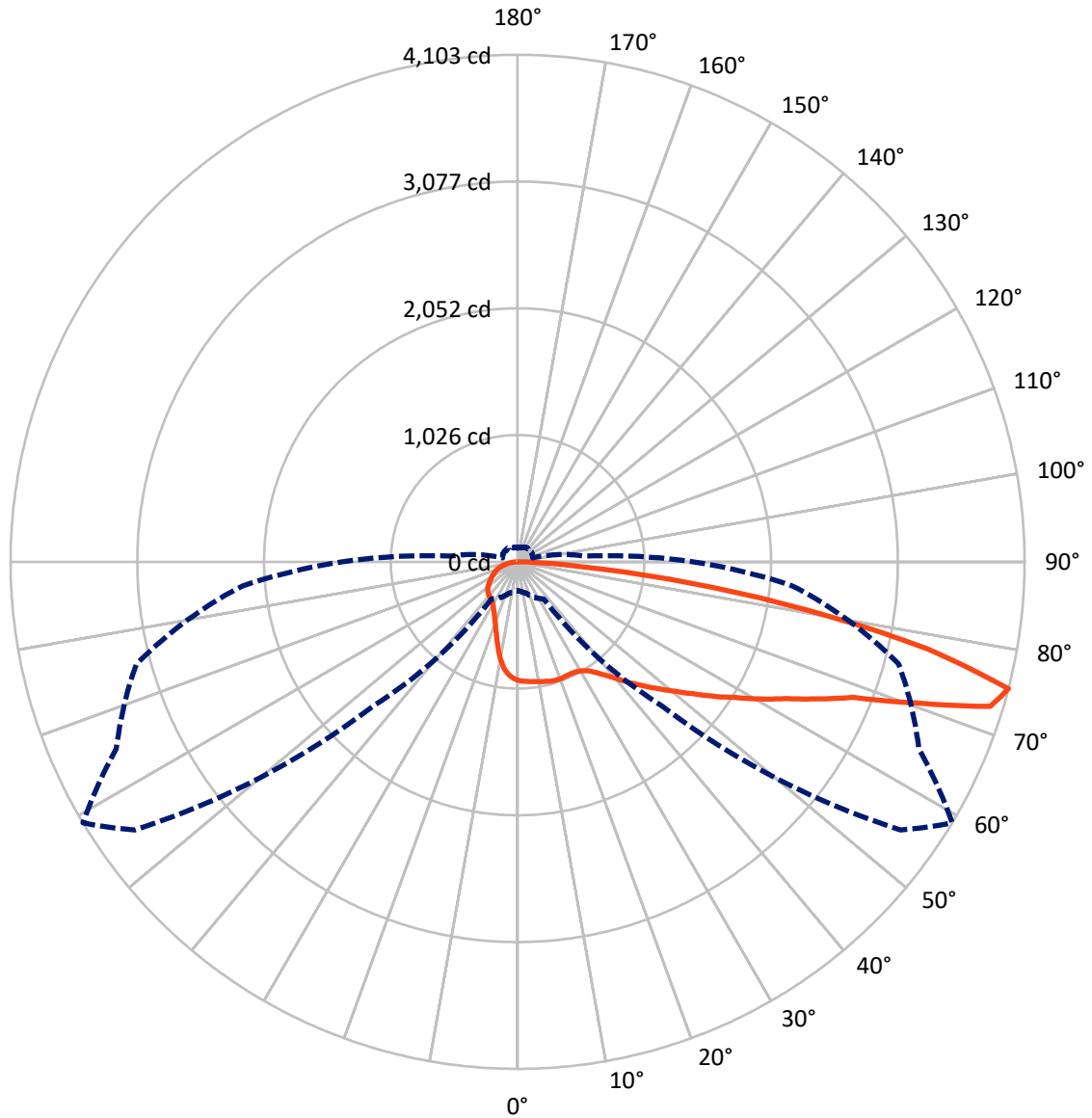
✕ Max cd
 - - - 1/2 Max cd



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

REPORT NUMBER: P959754
CATALOG NUMBER: NAV-SB1B-727-U-SL3

Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

REPORT NUMBER: P959754
 CATALOG NUMBER: NAV-SB1B-727-U-SL3

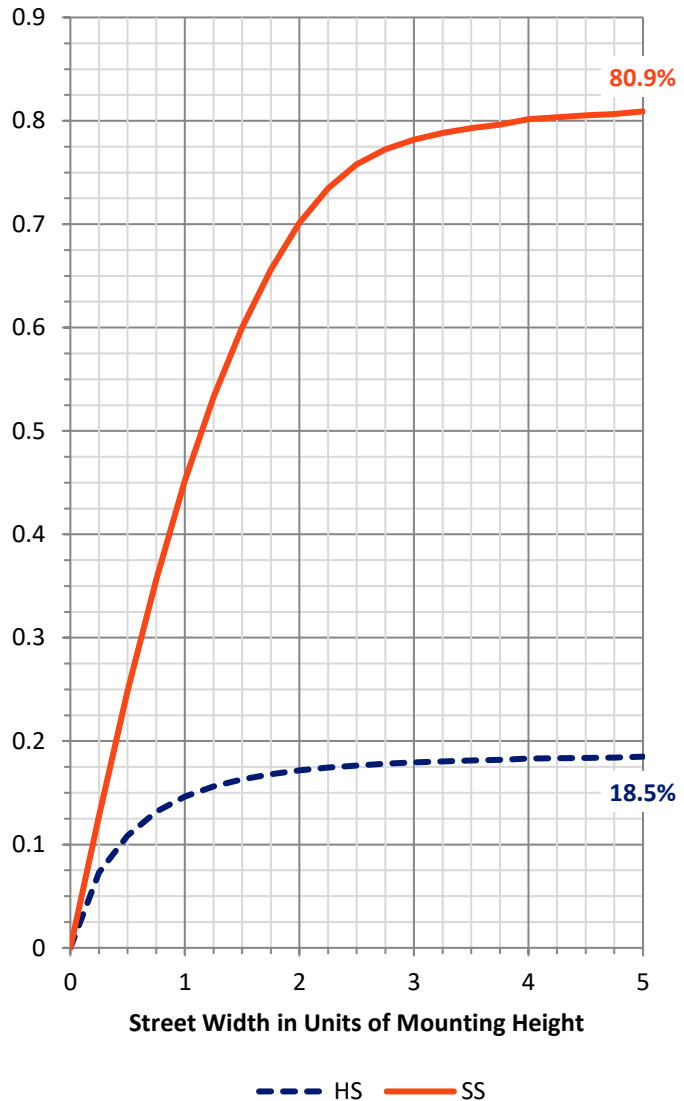
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	981.6	0.0	981.6
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	4252.0	0.0	4252.0
	% Fixture	81.2	0.0	81.2
Total	Lumens	5233.6	0.0	5233.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	86.1	1.6
10°-20°	220.2	4.2
20°-30°	334.4	6.4
30°-40°	497.1	9.5
40°-50°	739.3	14.1
50°-60°	1003.5	19.2
60°-70°	1225.1	23.4
70°-80°	961.4	18.4
80°-90°	166.5	3.2
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°	5233.6	100.0
0°-180°	5233.6	100.0

Coefficient of Utilization

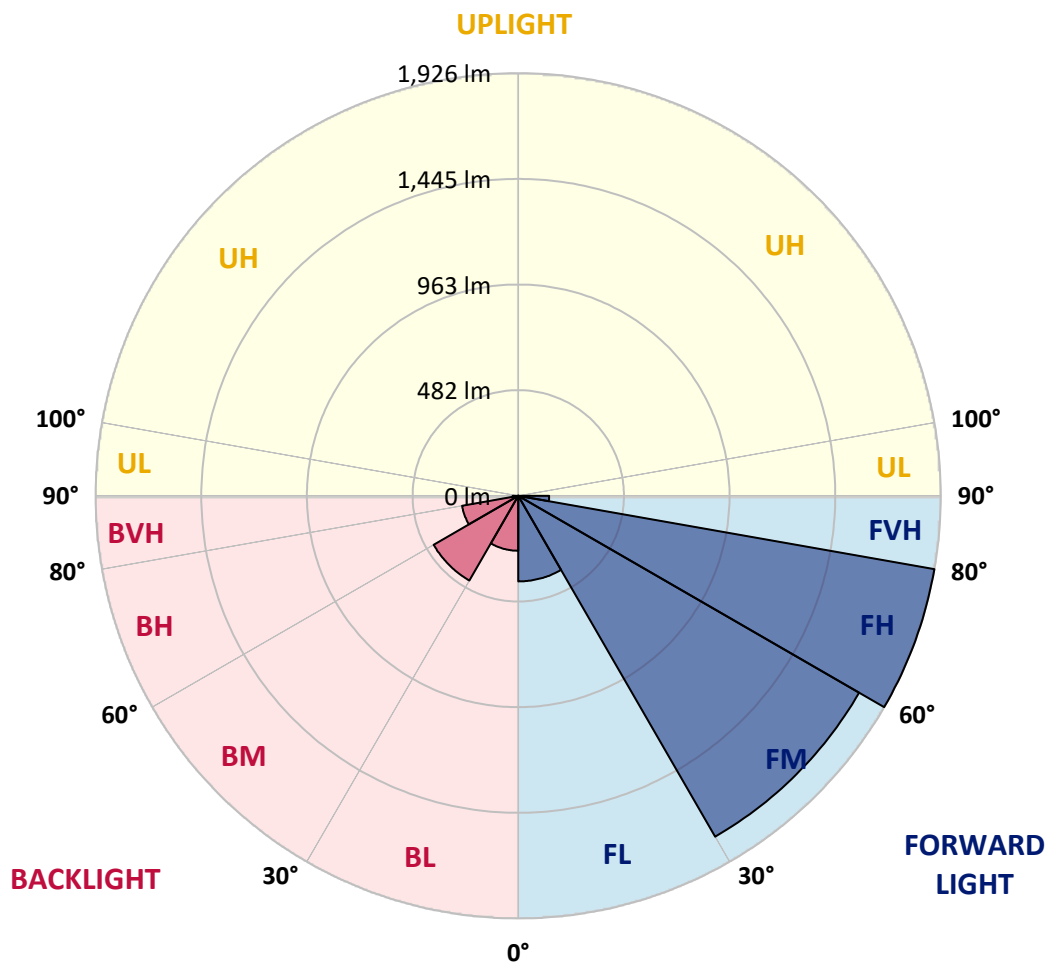


REPORT NUMBER: P959754
 CATALOG NUMBER: NAV-SB1B-727-U-SL3

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	390.2	7.5			
FM (30°-60°)	1794.3	34.3			
FH (60°-80°)	1926.5	36.8			G2/5000
FVH (80°-90°)	141.0	2.7			G2/225
BL (0°-30°)	250.5	4.8	B1/500		
BM (30°-60°)	445.5	8.5	B1/1000		
BH (60°-80°)	260.1	5.0	B1/500		G1/500
BVH (80°-90°)	25.5	0.5			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 Medium



REPORT NUMBER: P959754
 CATALOG NUMBER: NAV-SB1B-727-U-SL3

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	960.6	960.6	960.6	960.6	960.6	960.6	960.6	960.6	960.6	960.6	960.6
2.5°	968.8	965.4	968.8	967.4	966.8	965.7	966.0	967.9	966.8	968.2	963.4
5°	962.3	960.3	963.7	962.9	966.6	967.1	970.8	973.0	974.5	974.7	971.1
7.5°	951.6	949.7	954.5	958.4	966.3	968.5	976.1	979.8	981.7	985.1	979.8
10°	912.5	911.6	923.4	938.4	956.9	968.5	980.0	986.3	989.3	998.4	992.2
12.5°	843.3	844.4	859.9	888.6	925.7	962.9	984.5	993.5	998.4	1009.6	1006.8
15°	777.1	776.7	793.7	824.4	876.5	938.1	986.8	1002.2	1010.4	1027.0	1024.8
17.5°	738.8	737.7	749.5	772.8	821.2	900.1	981.1	1007.1	1024.5	1045.4	1043.3
20°	731.7	729.5	735.6	747.2	781.6	858.4	966.6	1007.1	1035.8	1062.8	1061.7
22.5°	757.4	753.7	751.1	749.8	765.0	824.1	950.0	1003.7	1052.4	1087.8	1085.9
25°	808.8	803.3	790.3	777.7	773.2	808.6	935.3	1002.9	1077.2	1121.7	1114.4
27.5°	892.2	885.2	859.0	828.6	801.2	816.5	928.9	1007.9	1104.5	1157.4	1142.8
30°	995.6	987.9	955.0	908.3	859.3	845.7	937.0	1022.8	1139.4	1205.0	1176.3
32.5°	1088.1	1079.7	1051.5	1004.0	937.8	896.5	962.9	1051.2	1194.3	1271.2	1226.7
35°	1170.3	1160.5	1135.2	1091.2	1034.1	967.7	1009.6	1101.7	1272.3	1378.7	1295.1
37.5°	1250.9	1239.3	1211.8	1165.3	1125.3	1062.5	1074.1	1166.4	1375.9	1509.3	1385.8
40°	1341.0	1324.4	1290.9	1245.0	1206.1	1173.7	1158.9	1245.8	1481.2	1655.2	1499.0
42.5°	1428.2	1412.6	1372.5	1333.4	1284.6	1275.4	1257.1	1338.8	1596.3	1815.4	1613.8
45°	1522.3	1503.5	1455.0	1405.5	1374.7	1343.0	1352.3	1431.6	1709.3	1978.7	1734.3
47.5°	1610.4	1589.3	1532.2	1477.0	1460.1	1399.8	1439.5	1533.8	1826.7	2144.2	1853.7
50°	1658.0	1637.1	1589.6	1539.8	1526.5	1470.0	1534.1	1646.2	1949.7	2309.2	1968.3
52.5°	1697.7	1675.2	1612.9	1585.4	1581.5	1546.2	1650.7	1774.6	2072.8	2455.1	2078.9
55°	1739.9	1714.9	1635.5	1610.7	1628.7	1631.8	1788.9	1920.1	2202.8	2597.2	2183.4
57.5°	1788.6	1756.8	1657.1	1632.1	1674.8	1732.0	1947.7	2071.0	2330.6	2729.0	2276.3
60°	1834.5	1802.5	1698.8	1666.1	1724.8	1848.3	2129.8	2253.8	2475.4	2846.4	2364.2
62.5°	1843.6	1817.1	1732.0	1731.7	1792.3	1984.0	2345.5	2438.2	2601.8	2962.4	2443.0
65°	1687.6	1671.0	1620.5	1729.3	1889.2	2179.5	2585.7	2674.1	2762.5	3063.7	2512.2
67.5°	1284.4	1286.7	1283.0	1492.7	1810.9	2460.1	2933.4	2926.7	2961.0	3177.5	2591.9
70°	587.3	600.5	686.6	1030.4	1450.8	2492.5	3508.3	3420.7	3210.2	3324.8	2660.9
72.5°	317.3	327.4	362.6	499.2	872.2	2216.0	3937.9	4000.2	3541.6	3423.8	2585.2
75°	232.9	238.5	262.9	317.3	366.3	1647.1	3783.9	4103.2	3582.9	3192.7	2232.3
77.5°	174.2	176.8	196.8	251.4	187.5	868.3	3023.4	3398.2	3067.1	2623.2	1649.0
80°	126.4	129.3	144.1	188.6	131.5	317.5	2076.1	2385.3	2100.6	1672.1	821.8
82.5°	87.2	88.4	94.9	128.4	91.7	123.3	1177.9	1398.7	1172.6	586.7	221.8
85°	52.7	54.0	56.9	74.9	52.1	58.5	508.5	525.9	350.5	140.2	69.0
87.5°	21.7	23.1	25.3	31.6	20.6	16.3	83.9	105.3	65.6	41.1	21.4
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: P959754
 CATALOG NUMBER: NAV-SB1B-727-U-SL3

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	960.6	960.6	960.6	960.6	960.6	960.6	960.6	960.6	960.6	960.6	960.6
2.5°	962.1	960.0	954.7	947.4	940.6	932.2	928.5	925.5	922.6	917.3	914.7
5°	967.9	962.6	948.2	929.7	908.6	885.5	862.9	847.5	834.2	824.4	816.2
7.5°	976.9	966.8	940.6	902.6	854.2	804.6	759.9	728.1	704.2	695.5	680.2
10°	986.3	974.2	928.5	861.5	777.9	701.6	642.2	609.6	590.4	584.2	574.6
12.5°	997.2	979.5	909.7	804.3	692.6	609.0	557.2	538.0	528.2	524.8	525.6
15°	1013.3	984.0	881.2	732.9	611.2	541.4	507.9	494.7	489.6	489.3	490.5
17.5°	1025.4	984.8	837.0	656.3	548.7	500.6	473.0	467.9	471.3	476.4	478.4
20°	1038.9	977.2	779.0	586.5	504.8	464.8	453.3	456.6	464.8	472.1	474.7
22.5°	1048.5	963.4	708.9	532.1	466.8	444.2	443.7	450.8	455.3	458.9	460.8
25°	1056.9	940.0	634.6	486.5	435.5	431.9	438.1	435.8	432.8	435.8	437.8
27.5°	1063.1	903.2	568.2	446.5	413.6	423.4	419.7	414.7	414.4	416.2	418.9
30°	1061.2	853.9	513.5	408.6	398.1	407.6	398.9	398.1	397.3	398.1	401.2
32.5°	1061.2	797.9	471.6	382.3	388.3	384.6	383.8	381.8	378.4	378.1	381.8
35°	1067.0	741.9	435.5	368.3	380.1	371.4	371.9	367.2	360.1	356.7	360.1
37.5°	1079.1	696.8	399.7	361.5	365.7	365.4	363.2	355.1	342.7	331.9	335.6
40°	1108.4	683.6	375.3	358.4	359.0	362.3	356.4	340.7	312.5	295.1	297.4
42.5°	1154.4	705.8	369.9	350.8	354.4	357.8	346.3	309.7	289.7	279.3	279.3
45°	1212.6	744.7	381.5	339.8	343.8	349.6	315.3	297.9	288.8	289.2	290.6
47.5°	1286.4	785.5	402.9	330.3	328.3	331.7	294.8	284.0	271.7	274.8	282.7
50°	1371.7	826.9	423.1	317.3	311.1	300.1	281.6	271.4	255.6	248.4	250.3
52.5°	1464.0	866.8	431.3	301.6	292.5	279.8	272.5	260.1	241.0	228.9	228.6
55°	1551.5	903.2	422.3	282.7	274.0	264.0	262.9	255.3	234.8	217.9	217.9
57.5°	1634.4	933.6	399.7	263.5	255.1	249.2	256.8	253.1	227.2	205.5	204.4
60°	1704.5	954.5	367.2	244.1	238.2	235.1	246.6	245.5	216.5	192.3	191.5
62.5°	1760.2	962.6	331.1	225.5	224.1	218.4	232.6	232.6	203.0	179.4	178.5
65°	1803.8	954.7	294.5	207.3	210.0	201.6	215.4	213.7	188.6	167.8	166.7
67.5°	1842.4	928.9	254.0	189.2	195.7	185.0	197.3	193.4	172.9	156.2	155.1
70°	1859.6	868.6	207.8	171.2	179.1	168.6	179.4	172.0	155.1	143.9	141.7
72.5°	1721.6	721.9	163.6	152.3	159.1	150.7	159.9	151.5	136.0	130.9	126.7
75°	1424.3	541.7	125.9	131.7	136.8	130.4	136.5	130.4	116.2	119.9	109.5
77.5°	1034.4	365.7	96.2	110.1	112.3	109.0	114.3	107.3	94.6	93.8	89.5
80°	514.3	214.2	75.4	87.0	86.2	83.9	90.1	86.7	76.1	80.6	79.6
82.5°	148.9	91.7	54.9	61.1	59.4	60.0	64.5	66.1	99.1	98.3	100.6
85°	46.7	36.1	32.9	34.0	32.4	33.2	38.0	75.4	69.8	40.8	44.2
87.5°	12.1	12.4	8.2	8.7	9.0	10.7	12.1	45.9	21.9	14.3	15.2
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)