

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: P959737

Luminaire Tested: **NAV-SB1B-722-U-T3-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P959737
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-6)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB1B-722-U-T3-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 2200K, 450mA LIGHTSQUARE WITH 26 LEDS AND TYPE III OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3740.2 lumens
Efficiency: N/A
Efficacy: 94.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G1

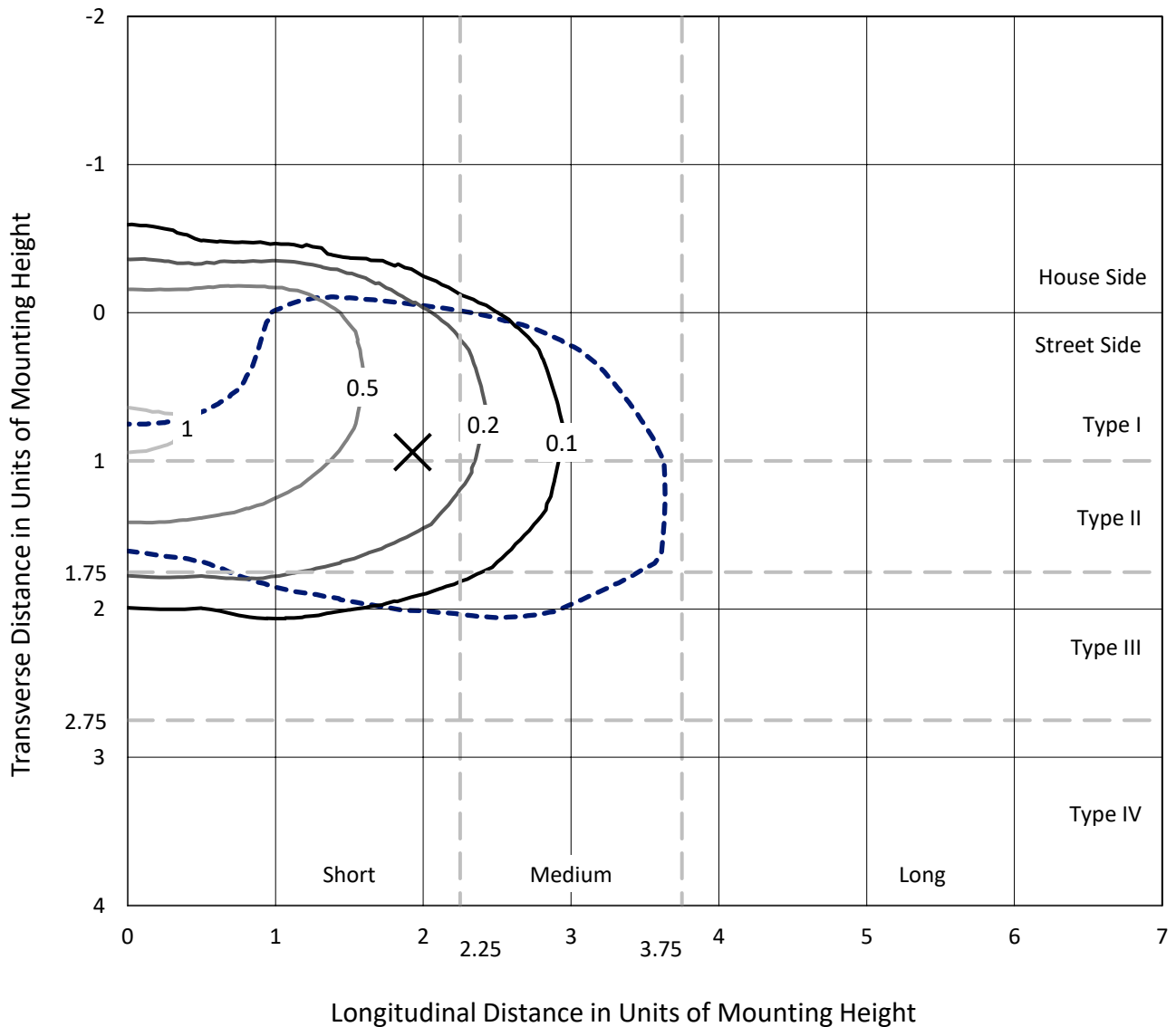
Input Watts (W): 39.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P959737
 CATALOG NUMBER: NAV-SB1B-722-U-T3-HSS

Iso-Footcandle Lines of Horizontal Illumination

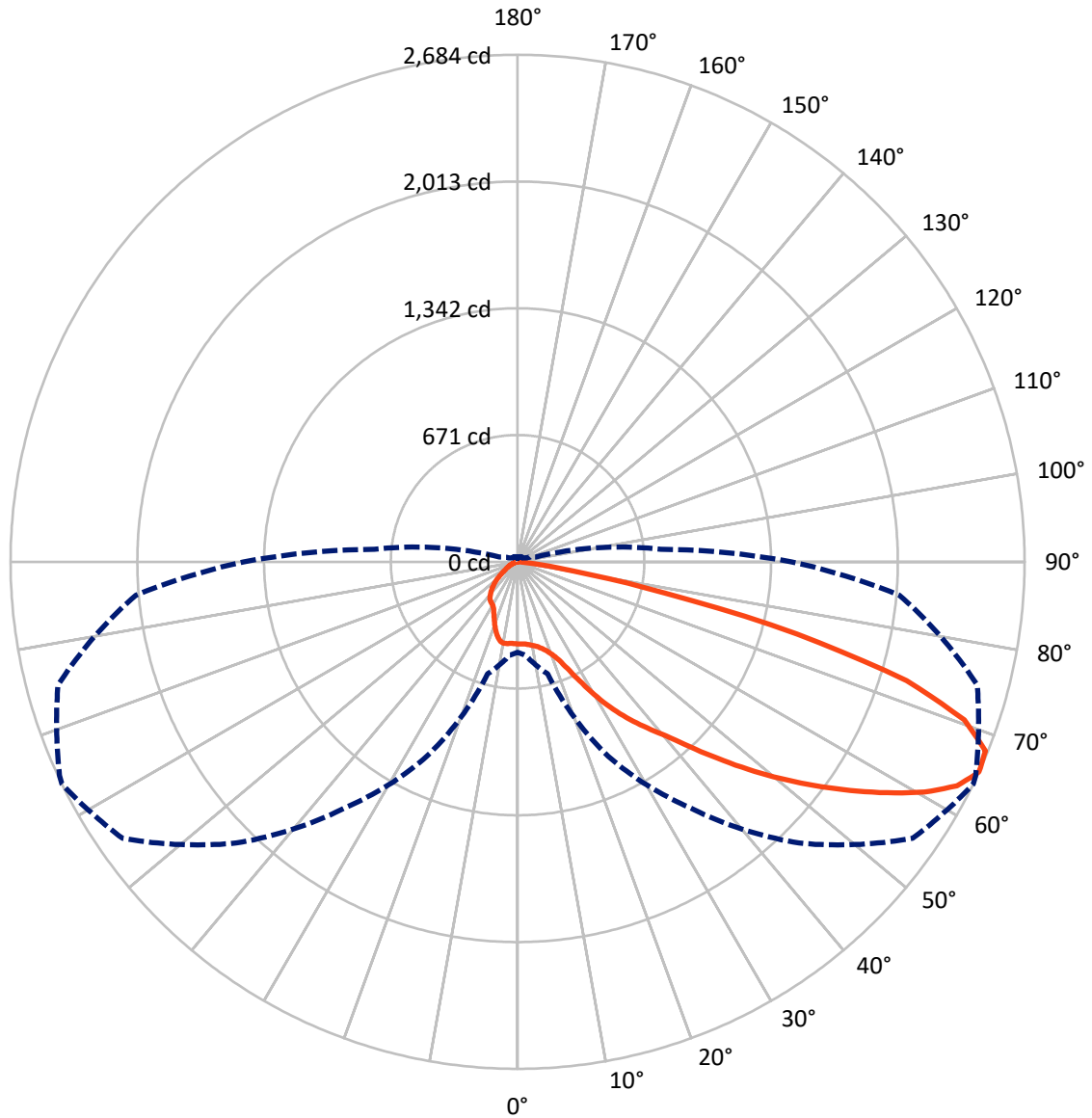
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.1 fc
 Type III - Short - N/A

REPORT NUMBER: P959737
CATALOG NUMBER: NAV-SB1B-722-U-T3-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 64-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

REPORT NUMBER: P959737

CATALOG NUMBER: NAV-SB1B-722-U-T3-HSS

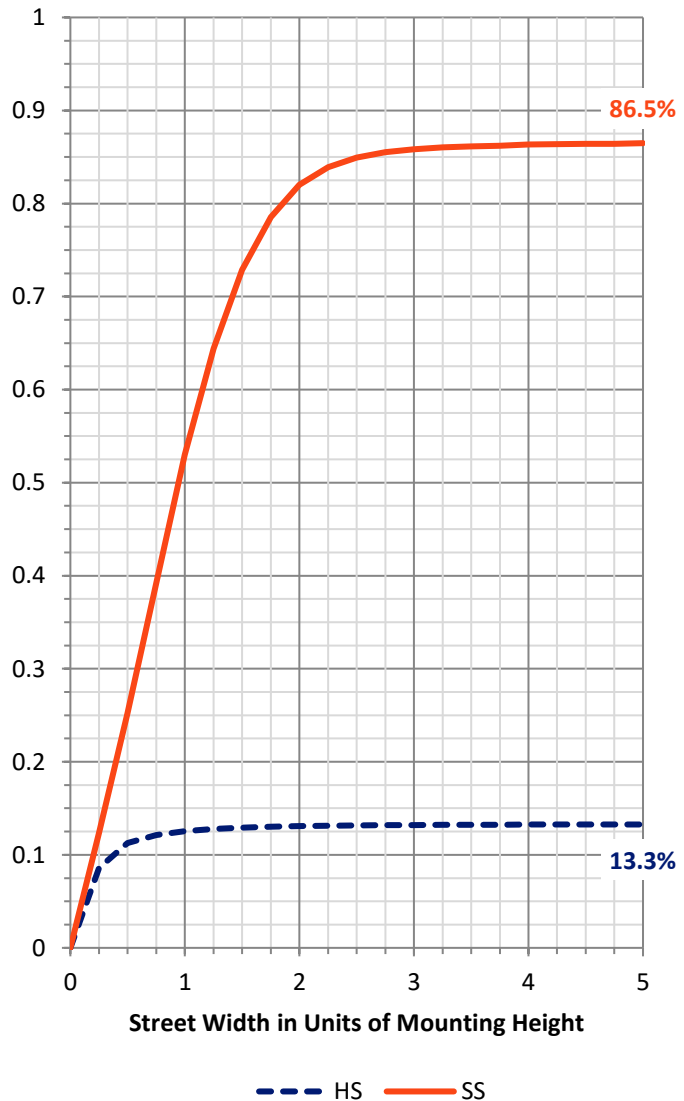
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	500.2	0.0	500.2
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	3240.0	0.0	3240.0
	% Fixture	86.6	0.0	86.6
Total	Lumens	3740.2	0.0	3740.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	40.1	1.1
10°-20°	108.9	2.9
20°-30°	206.3	5.5
30°-40°	417.4	11.2
40°-50°	711.1	19.0
50°-60°	967.0	25.9
60°-70°	908.1	24.3
70°-80°	363.8	9.7
80°-90°	17.6	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°	3740.2	100.0
0°-180°	3740.2	100.0

Coefficient of Utilization



REPORT NUMBER: P959737

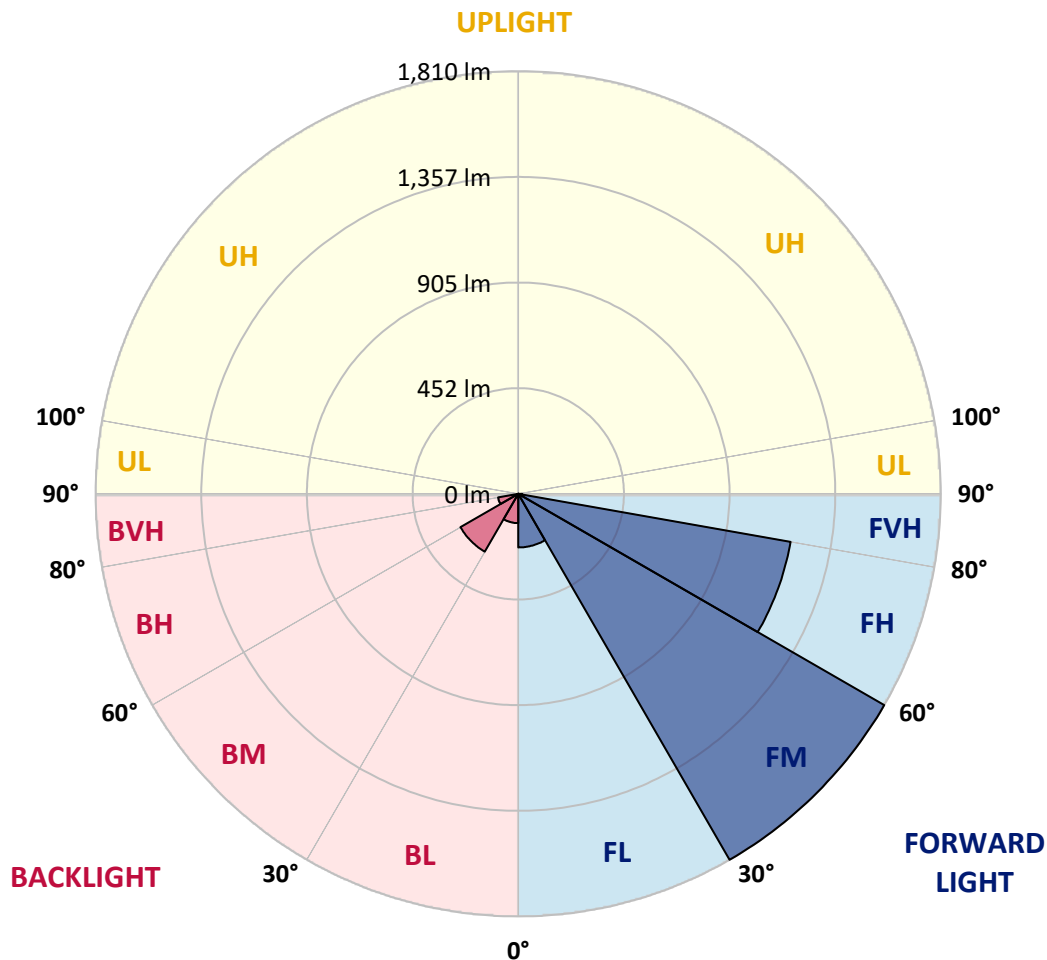
CATALOG NUMBER: NAV-SB1B-722-U-T3-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	229.7	6.1			
FM (30°-60°)	1809.5	48.4			
FH (60°-80°)	1184.1	31.7			G1/1800
FVH (80°-90°)	16.8	0.4			G1/100
BL (0°-30°)	125.6	3.4	B1/500		
BM (30°-60°)	286.0	7.6	B1/1000		
BH (60°-80°)	87.8	2.3	B0/110		G0/110
BVH (80°-90°)	0.9	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type III Short



REPORT NUMBER: P959737
 CATALOG NUMBER: NAV-SB1B-722-U-T3-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	435.0	435.0	435.0	435.0	435.0	435.0	435.0	435.0	435.0	435.0	435.0
2.5°	433.5	436.5	435.8	435.0	434.8	435.3	435.5	435.3	435.3	435.3	435.5
5°	425.3	427.7	427.7	429.5	432.0	435.0	437.3	437.8	438.3	439.0	438.8
7.5°	409.5	411.4	413.0	418.7	425.0	433.1	439.8	443.3	443.8	446.6	447.5
10°	398.6	401.2	403.6	409.7	418.7	430.8	442.3	450.8	452.1	458.6	461.6
12.5°	398.2	400.7	404.0	410.4	421.0	433.8	447.8	460.1	462.4	471.9	478.2
15°	403.4	406.4	409.5	417.5	428.8	444.3	459.3	474.7	476.9	490.5	497.2
17.5°	414.2	418.2	420.5	428.6	440.5	457.9	477.6	495.2	497.2	513.0	521.5
20°	435.5	440.3	441.1	447.5	459.3	477.9	501.4	523.3	525.8	543.9	553.4
22.5°	479.7	486.5	480.4	483.7	494.2	512.7	538.3	565.9	569.4	590.0	598.5
25°	557.4	566.9	551.3	545.8	550.3	569.7	601.8	636.6	640.6	657.2	661.4
27.5°	710.1	697.8	674.2	651.2	637.7	648.6	684.8	727.9	732.9	749.0	743.9
30°	877.8	867.0	835.2	784.0	751.9	750.2	783.5	831.7	837.4	852.8	837.4
32.5°	1045.8	1035.6	1000.9	938.0	882.3	854.7	877.8	931.2	934.3	944.0	921.5
35°	1211.0	1200.5	1165.9	1101.5	1033.0	970.4	965.9	1026.0	1027.0	1037.3	1003.7
37.5°	1377.3	1368.5	1331.7	1268.4	1201.0	1114.5	1072.7	1115.8	1117.0	1127.1	1092.2
40°	1495.9	1499.7	1474.4	1425.5	1367.6	1272.9	1192.5	1211.3	1203.8	1220.6	1199.8
42.5°	1597.7	1605.3	1583.1	1558.6	1525.0	1441.8	1340.9	1337.7	1325.6	1334.7	1313.1
45°	1685.7	1692.0	1672.2	1666.3	1665.6	1607.2	1503.2	1483.6	1466.8	1465.0	1439.2
47.5°	1718.0	1730.1	1738.6	1757.9	1795.5	1771.0	1671.0	1640.6	1621.8	1608.0	1567.1
50°	1730.3	1743.1	1772.2	1828.4	1917.4	1927.9	1837.9	1803.8	1780.7	1755.6	1695.5
52.5°	1713.8	1736.6	1775.7	1870.2	1999.4	2053.8	1998.1	1968.3	1942.0	1901.1	1811.8
55°	1616.2	1639.1	1719.0	1869.7	2040.3	2142.0	2149.5	2136.3	2106.7	2042.2	1905.9
57.5°	1410.6	1444.5	1571.1	1806.0	2039.4	2218.0	2297.9	2307.5	2274.5	2182.1	1979.8
60°	1125.8	1171.7	1326.1	1664.9	1976.5	2259.1	2428.1	2475.8	2440.6	2320.1	2039.7
62.5°	785.6	838.8	984.9	1443.7	1832.6	2229.6	2523.1	2611.2	2584.5	2443.4	2062.8
65°	479.2	496.2	614.1	1136.1	1587.9	2105.7	2552.5	2684.4	2675.6	2518.9	2028.7
67.5°	319.2	333.4	367.4	779.0	1232.7	1858.2	2482.2	2671.6	2674.1	2506.6	1903.8
70°	192.3	204.6	226.6	453.0	798.9	1470.8	2264.9	2508.6	2523.1	2342.3	1667.2
72.5°	79.2	87.5	107.5	205.3	413.7	933.5	1803.6	2153.8	2187.7	1969.5	1279.5
75°	44.9	49.1	63.1	103.0	179.5	435.0	1092.4	1529.0	1578.9	1357.5	769.8
77.5°	29.8	31.9	40.9	66.7	101.1	148.4	466.9	796.6	891.9	741.4	333.2
80°	20.1	21.8	28.1	44.6	65.7	63.7	148.7	295.1	363.1	254.7	81.3
82.5°	13.5	13.8	20.1	29.3	41.6	30.9	43.9	91.7	115.3	73.7	30.9
85°	7.8	7.5	14.8	17.0	18.6	12.8	13.3	27.6	36.1	31.1	17.5
87.5°	1.0	1.5	5.7	4.5	2.5	2.8	2.8	4.7	7.0	7.5	3.8
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: P959737
 CATALOG NUMBER: NAV-SB1B-722-U-T3-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	435.0	435.0	435.0	435.0	435.0	435.0	435.0	435.0	435.0	435.0	435.0
2.5°	435.5	435.3	434.5	433.8	432.0	431.0	431.5	431.0	430.8	431.0	432.0
5°	438.8	438.1	436.0	433.5	430.0	425.8	423.0	419.0	415.2	413.0	413.5
7.5°	447.5	446.8	444.0	437.1	425.8	408.0	391.7	377.4	366.5	360.3	360.6
10°	461.6	460.3	456.1	440.5	410.9	372.1	339.8	312.9	295.4	287.1	286.4
12.5°	478.2	476.6	469.1	437.3	382.8	322.2	277.6	247.7	231.4	224.2	223.4
15°	497.7	495.7	480.9	421.8	342.0	267.0	226.1	203.9	193.3	186.8	187.1
17.5°	522.0	518.5	489.6	398.4	297.7	224.9	194.5	177.7	168.5	162.3	161.7
20°	553.6	547.9	496.7	370.5	256.8	198.3	173.2	159.2	152.2	146.7	145.7
22.5°	597.8	589.5	505.2	340.5	228.0	180.0	157.4	147.2	141.4	135.2	134.2
25°	652.4	642.7	515.8	312.6	208.1	164.2	146.0	137.5	130.6	123.4	122.6
27.5°	728.9	711.3	528.3	289.9	191.1	150.7	135.4	125.9	118.1	112.0	110.8
30°	814.2	785.4	539.4	276.0	175.5	138.2	121.6	112.0	104.9	100.6	99.8
32.5°	894.9	855.8	546.6	270.1	161.4	123.8	106.6	96.2	90.8	89.5	90.3
35°	971.1	919.4	545.8	264.2	148.9	109.6	91.7	81.3	77.0	77.7	77.7
37.5°	1058.8	987.4	540.6	255.2	138.7	96.6	79.0	69.7	65.9	66.2	67.2
40°	1160.9	1065.9	537.3	238.2	127.4	84.5	68.5	60.9	58.2	57.2	56.9
42.5°	1269.8	1141.8	537.8	218.9	113.4	73.7	61.2	54.9	52.4	51.7	51.4
45°	1379.0	1214.3	538.5	198.8	98.5	65.4	56.0	50.6	49.1	48.2	48.2
47.5°	1481.8	1276.0	524.5	177.2	83.9	59.1	51.7	48.2	46.8	45.6	45.6
50°	1577.7	1317.1	490.7	152.2	72.5	54.1	48.4	45.9	44.6	43.4	43.4
52.5°	1652.1	1323.7	434.8	126.4	64.5	50.4	46.4	44.2	42.6	41.4	41.1
55°	1685.2	1282.8	355.3	102.3	58.2	47.2	44.4	42.1	40.4	39.2	38.8
57.5°	1676.7	1196.8	277.1	82.2	52.2	43.9	41.9	40.4	38.3	36.4	36.1
60°	1634.8	1081.7	208.9	68.5	46.6	40.4	39.2	37.8	35.1	32.1	31.6
62.5°	1562.3	937.0	148.9	56.7	40.6	36.4	35.9	34.8	30.9	25.3	24.8
65°	1451.5	761.3	100.2	47.2	34.8	31.9	32.1	30.3	25.1	18.8	18.3
67.5°	1289.6	556.7	64.2	38.6	29.1	26.5	26.9	25.8	21.3	16.1	15.3
70°	1083.2	368.6	41.9	29.3	23.3	20.6	22.0	22.3	18.0	13.0	12.5
72.5°	794.1	217.6	29.3	21.8	17.0	14.2	18.0	18.6	14.6	9.7	9.3
75°	452.5	103.3	22.0	15.8	10.6	10.0	14.0	14.0	10.0	6.6	6.0
77.5°	190.0	43.2	15.6	10.2	6.0	5.7	9.5	8.8	5.0	3.0	3.0
80°	54.9	19.3	8.3	5.0	2.5	2.3	3.8	2.8	1.2	0.5	0.5
82.5°	21.5	8.5	3.3	2.0	1.0	1.0	0.5	0.0	0.0	0.0	0.0
85°	12.8	3.5	1.5	0.7	0.2	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	3.3	0.7	0.5	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)