

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: P959209

Luminaire Tested: **NAV-SB1A-722-U-T2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P959209
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-3)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB1A-722-U-T2
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 2200K, 350mA LIGHTSQUARE WITH 26 LEDS AND TYPE II OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3764.8 lumens
Efficiency: N/A
Efficacy: 121.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G1

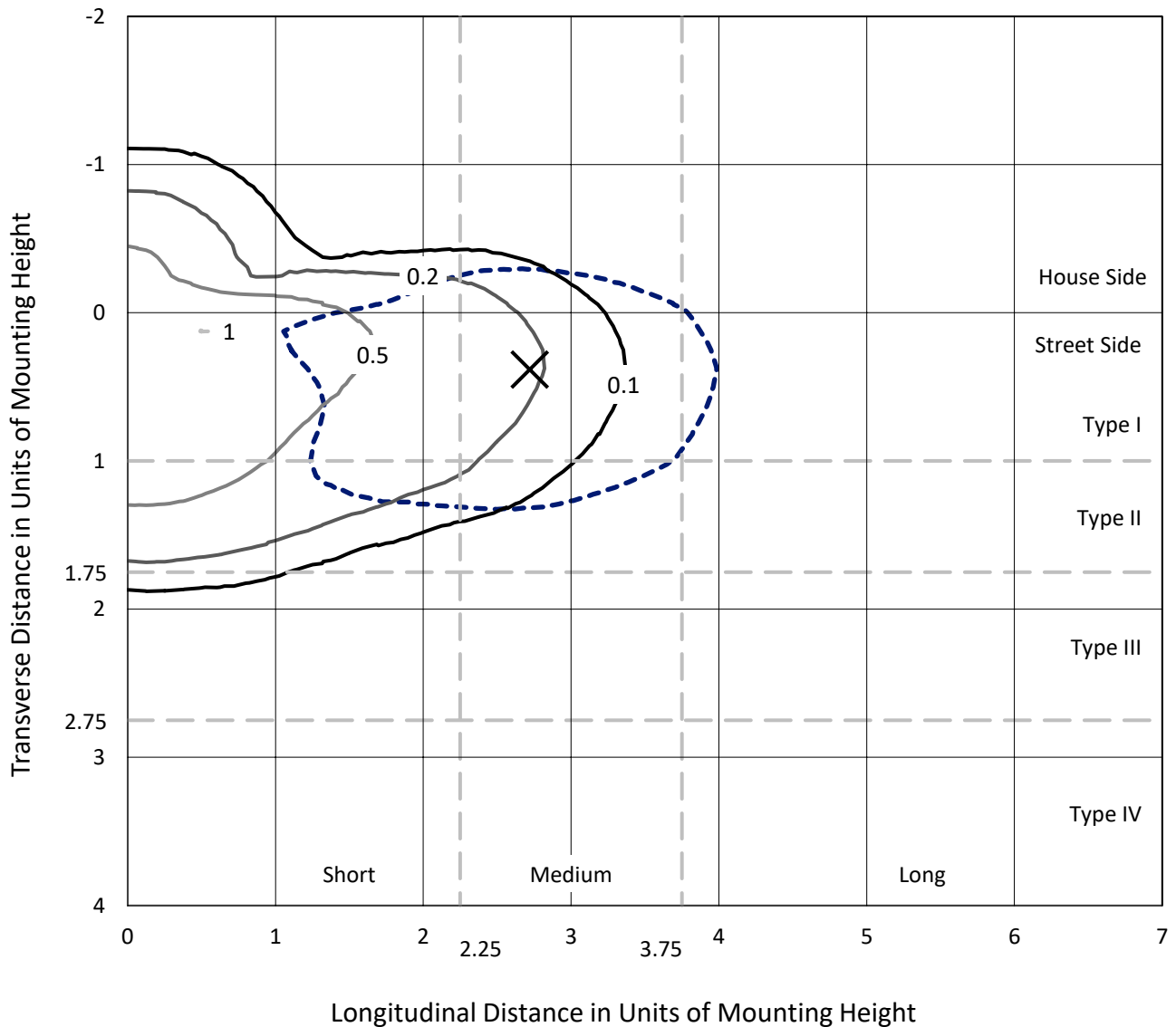
Input Watts (W): 30.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P959209
 CATALOG NUMBER: NAV-SB1A-722-U-T2

Iso-Footcandle Lines of Horizontal Illumination

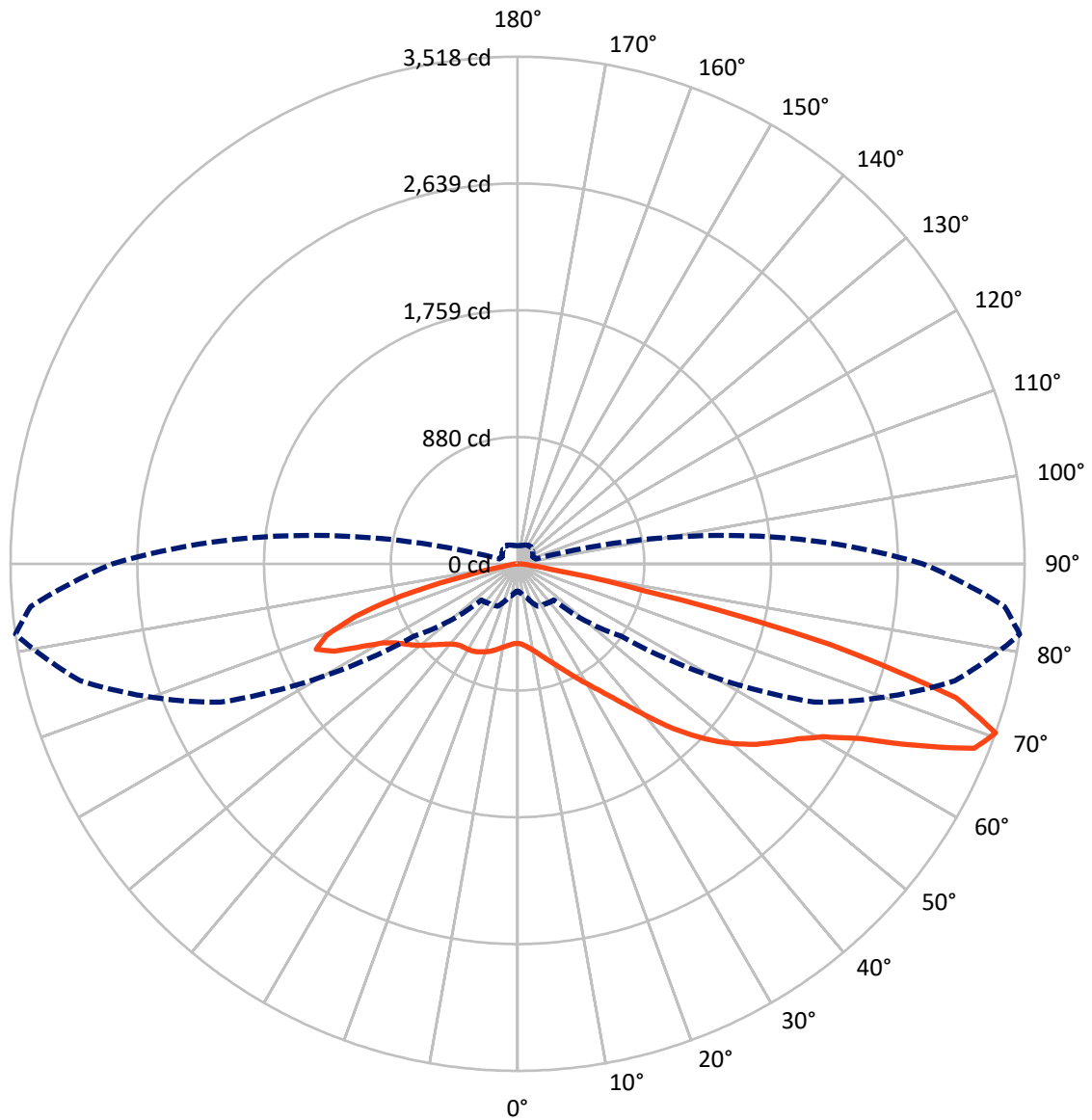
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1 fc
 Type II - Medium - N/A

REPORT NUMBER: P959209
CATALOG NUMBER: NAV-SB1A-722-U-T2

Luminous Intensity Polar Plot



— Vertical Plane Through 82-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

REPORT NUMBER: P959209
 CATALOG NUMBER: NAV-SB1A-722-U-T2

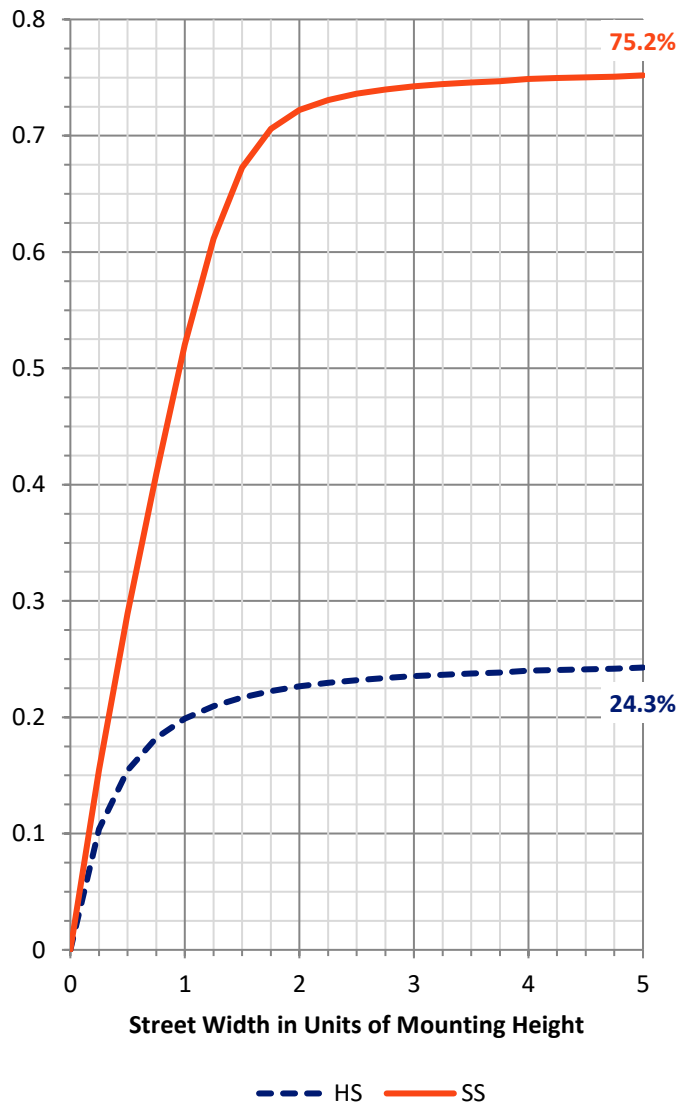
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	928.1	0.0	928.1
	% Fixture	24.7	0.0	24.7
Street Side	Lumens	2836.7	0.0	2836.7
	% Fixture	75.3	0.0	75.3
Total	Lumens	3764.8	0.0	3764.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	52.1	1.4
10°-20°	149.7	4.0
20°-30°	250.5	6.7
30°-40°	391.3	10.4
40°-50°	623.2	16.6
50°-60°	867.3	23.0
60°-70°	907.2	24.1
70°-80°	474.2	12.6
80°-90°	49.2	1.3
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°	3764.8	100.0
0°-180°	3764.8	100.0

Coefficient of Utilization

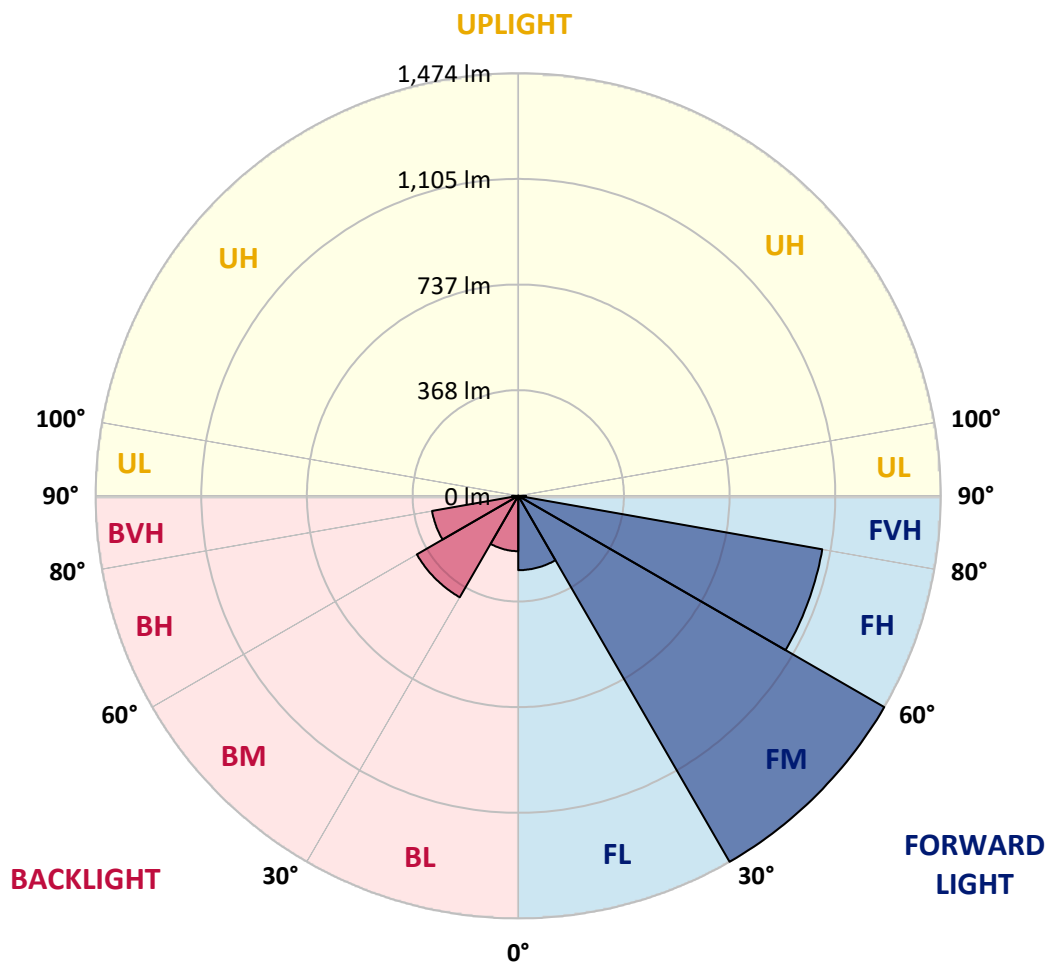


REPORT NUMBER: P959209
 CATALOG NUMBER: NAV-SB1A-722-U-T2

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	259.3	6.9			
FM (30°-60°)	1473.5	39.1			
FH (60°-80°)	1076.4	28.6			G1/1800
FVH (80°-90°)	27.6	0.7			G1/100
BL (0°-30°)	193.1	5.1	B1/500		
BM (30°-60°)	408.3	10.8	B1/1000		
BH (60°-80°)	305.0	8.1	B1/500		G1/500
BVH (80°-90°)	21.7	0.6			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 II Medium



REPORT NUMBER: P959209
 CATALOG NUMBER: NAV-SB1A-722-U-T2

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°	85°
0°	552.0	552.0	552.0	552.0	552.0	552.0	552.0	552.0	552.0	552.0	552.0
2.5°	565.2	568.4	567.3	566.3	566.3	565.0	564.8	562.7	561.2	558.5	558.0
5°	572.4	575.7	575.3	576.2	578.7	579.3	579.9	578.7	575.5	572.4	570.9
7.5°	566.0	569.8	570.9	575.7	583.7	590.9	596.3	598.5	595.5	590.9	588.8
10°	544.4	548.6	552.8	564.2	578.3	595.3	609.7	618.3	617.7	613.3	609.5
12.5°	500.6	505.0	514.0	536.2	562.1	592.1	618.9	636.8	643.1	639.9	633.2
15°	465.7	469.4	476.2	499.1	532.8	578.3	622.3	657.2	673.0	671.3	663.3
17.5°	464.6	466.3	470.5	481.2	507.3	556.8	618.7	677.2	707.4	707.1	697.2
20°	482.3	482.9	485.2	487.5	502.2	540.4	609.5	693.8	746.0	746.0	735.1
22.5°	506.7	506.2	508.6	506.7	513.8	538.9	603.7	708.4	788.9	792.1	778.5
25°	543.1	541.2	540.6	536.0	537.4	552.0	610.1	725.0	839.9	846.4	829.4
27.5°	591.9	588.8	586.5	575.9	572.4	578.7	629.7	745.0	896.6	907.9	886.4
30°	655.5	649.6	646.5	628.1	615.1	616.1	659.3	771.5	955.9	974.3	946.9
32.5°	742.2	733.2	724.6	694.4	670.7	662.9	697.4	808.3	1020.3	1049.6	1014.4
35°	839.3	832.1	822.9	776.3	739.7	721.8	749.0	859.7	1095.5	1142.1	1096.3
37.5°	932.7	926.5	930.9	868.2	821.0	794.9	816.5	928.5	1188.5	1257.2	1199.0
40°	1029.4	1024.6	1025.2	965.3	910.4	881.0	898.4	1015.1	1294.9	1394.0	1322.5
42.5°	1134.5	1130.9	1118.9	1065.8	1004.1	976.7	992.7	1114.9	1409.2	1549.8	1458.0
45°	1252.1	1250.0	1238.8	1177.8	1107.1	1076.4	1098.0	1225.2	1524.1	1696.5	1594.0
47.5°	1353.8	1355.7	1354.2	1302.9	1229.6	1184.5	1210.2	1340.3	1631.0	1834.3	1724.5
50°	1402.8	1412.1	1426.0	1410.0	1364.5	1318.5	1323.5	1451.3	1732.9	1963.6	1849.5
52.5°	1377.2	1395.0	1432.5	1458.2	1475.7	1466.2	1452.7	1561.6	1828.7	2080.2	1967.8
55°	1282.0	1306.9	1369.2	1431.0	1520.7	1590.4	1607.9	1683.9	1922.2	2182.9	2079.6
57.5°	1108.3	1148.9	1204.8	1329.7	1480.7	1650.6	1788.9	1853.5	2021.3	2292.6	2196.7
60°	810.7	865.0	934.5	1120.3	1340.9	1618.4	1943.0	2114.0	2162.1	2434.6	2349.1
62.5°	518.9	552.4	616.3	791.3	1044.8	1453.6	1990.1	2439.6	2400.9	2667.6	2577.7
65°	355.2	376.8	435.3	533.6	675.5	1082.0	1863.9	2683.8	2780.0	3036.8	2968.4
67.5°	258.1	274.5	324.4	410.5	440.1	640.3	1446.4	2672.6	3148.6	3417.1	3310.9
70°	188.2	199.8	241.7	324.4	338.7	356.2	876.2	2271.8	3140.6	3518.2	3390.9
72.5°	139.4	147.4	175.6	251.7	274.1	240.6	433.7	1651.1	2698.7	3182.2	3080.1
75°	100.9	106.9	127.6	192.6	219.4	183.2	216.4	964.9	1882.4	2238.5	2256.4
77.5°	77.1	81.7	95.3	141.0	175.6	137.5	134.3	443.9	892.6	897.0	947.3
80°	61.9	64.9	72.4	99.3	134.7	102.9	87.5	179.2	282.1	238.7	250.5
82.5°	45.5	50.5	61.1	69.7	96.2	70.9	53.3	90.5	107.3	92.2	93.1
85°	25.9	29.4	37.0	49.9	61.5	43.4	30.5	40.2	49.9	41.0	36.6
87.5°	9.2	12.0	13.0	19.6	26.8	17.9	11.8	11.6	16.4	12.2	10.1
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: P959209
 CATALOG NUMBER: NAV-SB1A-722-U-T2

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	552.0	552.0	552.0	552.0	552.0	552.0	552.0	552.0	552.0	552.0	552.0
2.5°	556.0	554.9	550.9	545.6	540.0	534.6	532.8	529.0	526.4	525.0	526.6
5°	567.1	564.0	554.5	542.5	530.0	516.4	506.9	498.0	491.6	485.6	488.0
7.5°	583.1	577.6	561.4	540.4	518.0	495.5	478.7	465.9	457.3	451.7	452.8
10°	601.7	593.2	568.4	537.0	502.5	470.1	450.3	439.3	433.9	430.9	431.7
12.5°	623.1	610.9	575.5	529.2	478.7	441.7	428.1	425.0	425.1	425.3	425.7
15°	649.4	632.5	581.4	512.2	447.7	419.9	417.5	422.7	428.1	430.7	430.5
17.5°	679.3	655.3	582.3	484.2	417.3	405.9	413.5	424.8	432.9	436.5	437.3
20°	711.1	678.4	575.1	444.6	392.4	394.5	408.2	422.5	431.5	436.1	437.3
22.5°	747.7	703.2	558.0	403.1	372.0	382.1	398.1	412.2	421.5	426.1	427.3
25°	789.5	730.9	530.9	368.2	354.4	368.2	384.2	395.8	403.3	407.5	408.8
27.5°	835.9	759.9	495.1	340.4	339.0	353.8	367.0	376.0	380.0	383.1	384.4
30°	882.4	786.3	451.5	319.4	325.6	339.6	349.0	353.0	354.2	354.8	356.2
32.5°	932.7	809.0	405.7	302.1	312.8	325.8	331.4	333.2	327.6	323.8	325.0
35°	993.6	833.4	361.0	288.2	300.2	311.4	313.2	311.6	305.0	297.2	297.7
37.5°	1069.0	863.8	325.2	278.5	288.4	295.8	293.7	293.3	293.9	284.6	285.3
40°	1161.3	903.3	299.1	270.9	278.9	280.4	274.3	277.7	280.6	266.7	267.1
42.5°	1263.7	951.1	282.5	265.7	270.9	267.1	257.5	261.3	260.9	242.5	242.3
45°	1368.3	1003.1	276.6	261.9	263.5	255.9	245.3	246.3	237.9	221.3	221.9
47.5°	1472.1	1058.8	280.2	258.7	254.3	245.7	237.5	233.1	220.8	208.4	208.4
50°	1574.0	1117.4	293.5	252.4	241.7	236.8	230.7	222.9	209.7	199.2	198.3
52.5°	1668.5	1176.3	308.2	241.7	225.9	229.0	225.2	216.2	203.2	192.4	192.6
55°	1758.0	1235.2	314.1	227.1	211.2	222.1	220.0	203.4	187.8	179.0	178.2
57.5°	1855.5	1306.2	307.6	208.6	199.2	214.3	205.9	187.6	178.6	172.0	171.4
60°	1990.5	1417.4	293.9	185.6	187.8	202.7	188.4	180.8	171.0	163.6	163.2
62.5°	2214.9	1624.9	271.7	162.8	174.4	185.6	180.0	172.4	162.5	155.2	155.2
65°	2546.5	1913.4	229.9	145.0	159.4	168.8	171.0	163.4	153.0	145.4	145.9
67.5°	2826.1	2094.4	174.0	130.3	144.0	155.2	161.4	154.1	143.0	135.6	135.8
70°	2810.8	1963.0	132.8	115.6	130.5	141.9	149.9	144.0	132.2	125.3	125.9
72.5°	2496.6	1642.2	107.5	100.9	116.6	127.8	137.5	133.0	121.1	114.3	114.3
75°	1834.1	1165.6	85.9	85.9	99.5	113.3	123.8	121.1	110.1	105.3	103.8
77.5°	773.2	489.0	67.3	71.3	82.7	97.3	110.5	111.5	101.9	107.8	97.9
80°	205.6	134.9	51.4	56.2	64.9	80.3	96.0	95.7	85.3	79.7	74.1
82.5°	78.3	53.1	36.6	39.6	46.9	61.5	76.2	78.5	68.2	58.9	58.9
85°	30.1	22.8	22.5	23.8	27.4	40.8	57.5	59.6	51.4	43.6	45.0
87.5°	7.8	6.8	8.4	8.0	12.6	21.7	33.0	34.1	31.4	18.1	25.9
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)