

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: P959196

Luminaire Tested: **NAV-SB1A-722-U-SL3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P959196
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-SB1A-722-U-SL3
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 2200K, 350mA LIGHTSQUARE WITH 26 LEDS AND TYPE III SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3713.6 lumens
Efficiency: N/A
Efficacy: 120.2 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

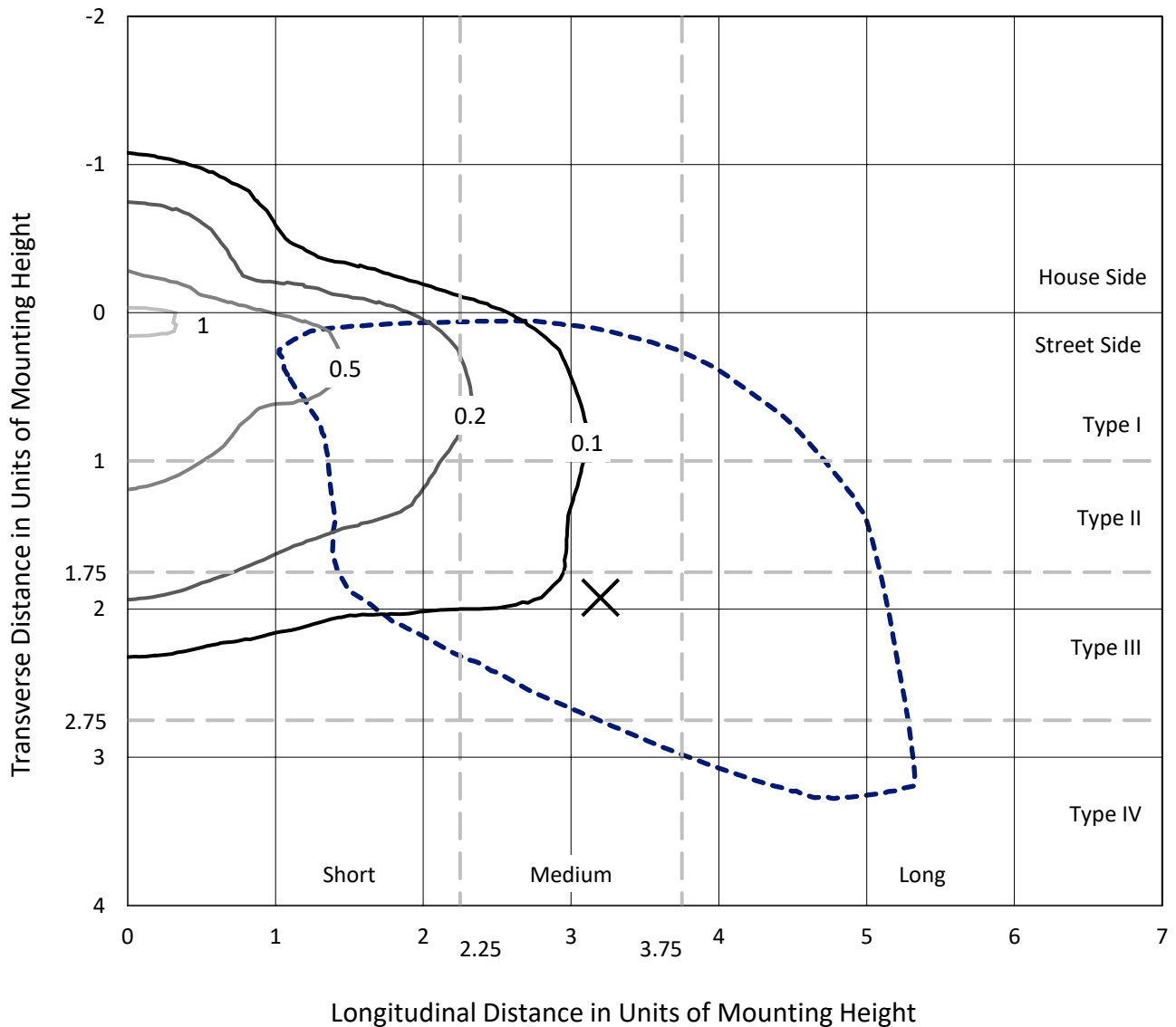
Input Watts (W): 30.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P959196
 CATALOG NUMBER: NAV-SB1A-722-U-SL3

Iso-Footcandle Lines of Horizontal Illumination

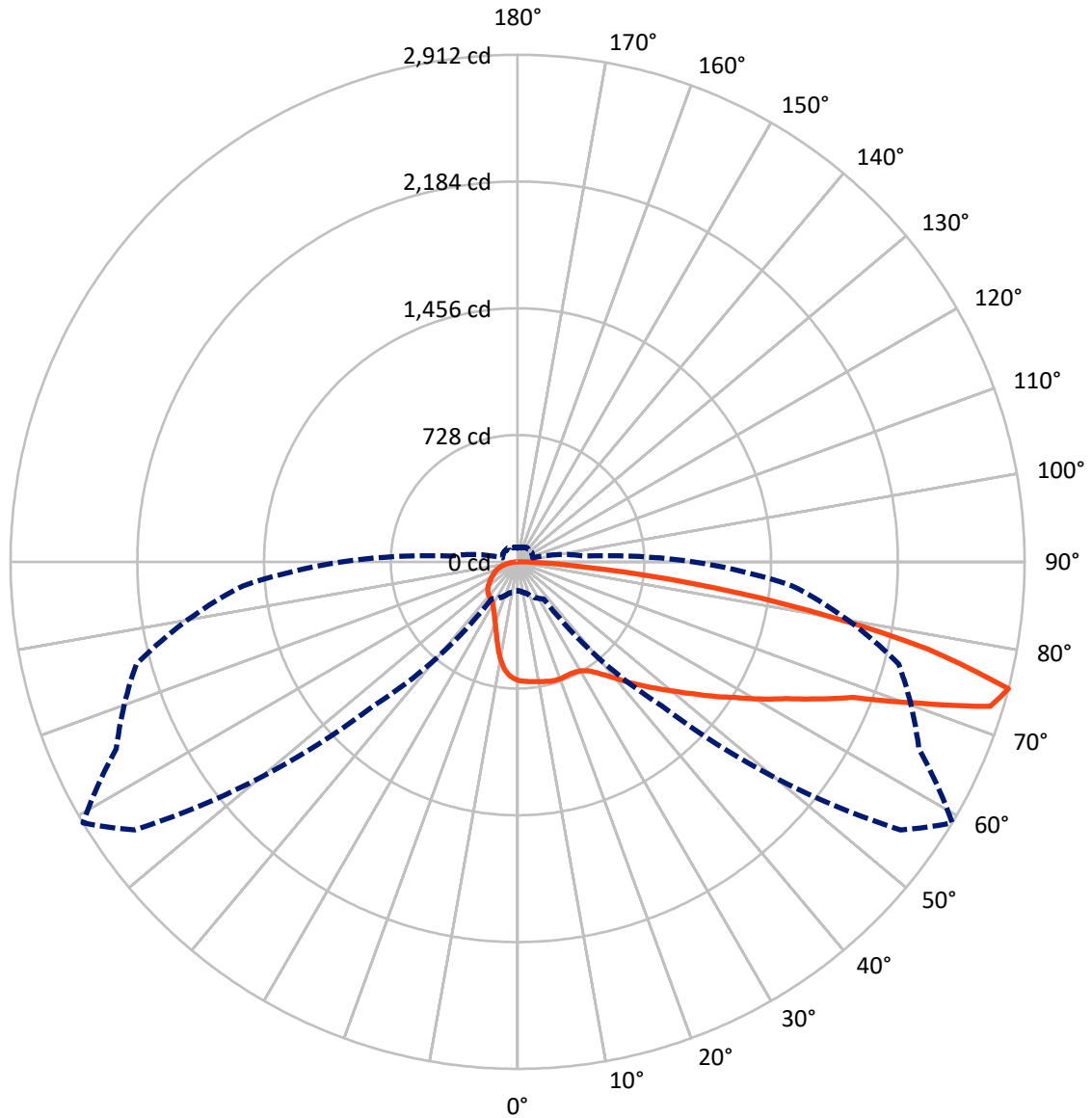
✕ Max cd
 - - - 1/2 Max cd



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

REPORT NUMBER: P959196
CATALOG NUMBER: NAV-SB1A-722-U-SL3

Luminous Intensity Polar Plot



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

REPORT NUMBER: P959196
 CATALOG NUMBER: NAV-SB1A-722-U-SL3

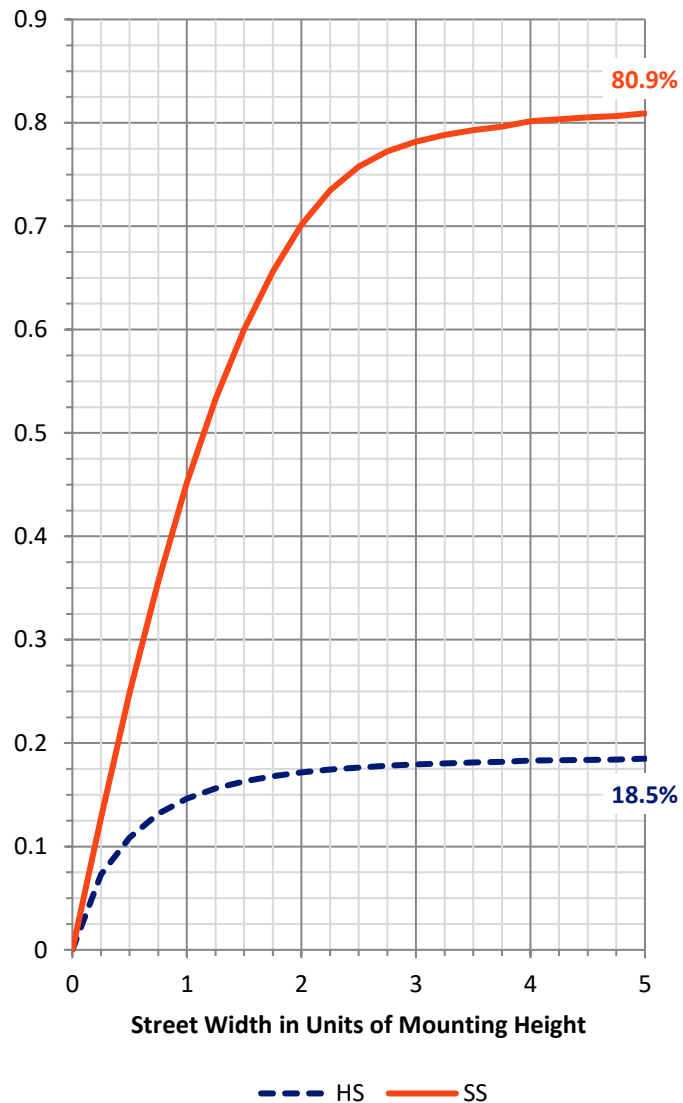
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	696.5	0.0	696.5
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	3017.1	0.0	3017.1
	% Fixture	81.2	0.0	81.2
Total	Lumens	3713.6	0.0	3713.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	61.1	1.6
10°-20°	156.2	4.2
20°-30°	237.3	6.4
30°-40°	352.7	9.5
40°-50°	524.6	14.1
50°-60°	712.0	19.2
60°-70°	869.3	23.4
70°-80°	682.2	18.4
80°-90°	118.2	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°	3713.6	100.0
0°-180°	3713.6	100.0

Coefficient of Utilization

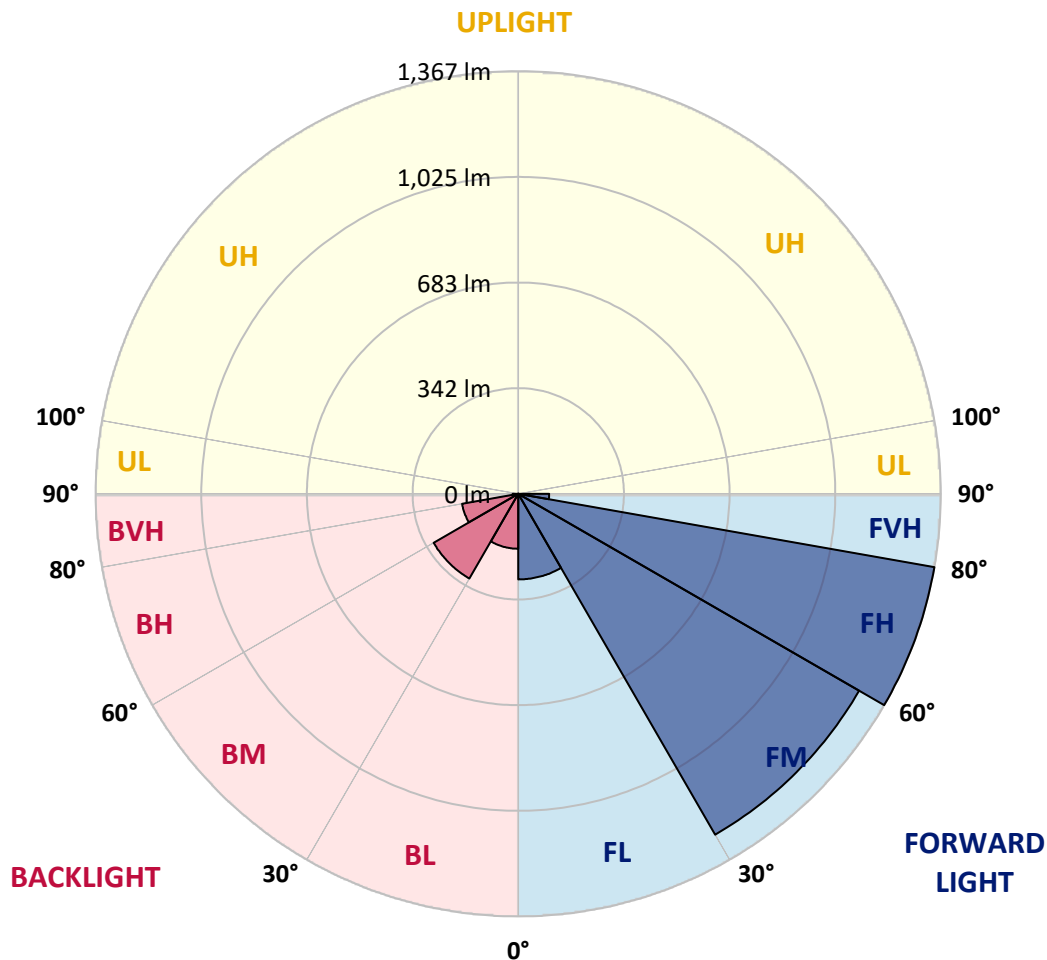


REPORT NUMBER: P959196
 CATALOG NUMBER: NAV-SB1A-722-U-SL3

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	276.9	7.5			
FM (30°-60°)	1273.2	34.3			
FH (60°-80°)	1366.9	36.8			G1/1800
FVH (80°-90°)	100.1	2.7			G2/225
BL (0°-30°)	177.7	4.8	B1/500		
BM (30°-60°)	316.1	8.5	B1/1000		
BH (60°-80°)	184.5	5.0	B1/500		G1/500
BVH (80°-90°)	18.1	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: P959196
 CATALOG NUMBER: NAV-SB1A-722-U-SL3

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	681.6	681.6	681.6	681.6	681.6	681.6	681.6	681.6	681.6	681.6	681.6
2.5°	687.4	685.0	687.4	686.4	686.0	685.2	685.4	686.9	686.0	687.1	683.6
5°	682.9	681.4	683.8	683.3	685.8	686.2	688.8	690.4	691.4	691.6	689.0
7.5°	675.3	673.8	677.2	680.0	685.6	687.3	692.6	695.2	696.6	698.9	695.2
10°	647.5	646.9	655.3	665.8	679.1	687.3	695.4	699.8	702.0	708.4	704.0
12.5°	598.3	599.1	610.1	630.5	656.8	683.3	698.6	705.0	708.4	716.4	714.4
15°	551.3	551.1	563.1	585.0	621.9	665.6	700.2	711.1	717.0	728.8	727.1
17.5°	524.2	523.4	531.8	548.4	582.7	638.7	696.2	714.6	726.9	741.8	740.4
20°	519.2	517.6	522.0	530.2	554.5	609.1	685.8	714.6	734.9	754.1	753.4
22.5°	537.4	534.7	533.0	532.0	542.7	584.8	674.0	712.2	746.7	771.9	770.5
25°	573.9	569.9	560.8	551.8	548.6	573.7	663.7	711.6	764.3	795.9	790.7
27.5°	633.0	628.1	609.5	587.9	568.6	579.3	659.1	715.1	783.7	821.2	810.9
30°	706.4	701.0	677.6	644.4	609.7	600.1	664.8	725.8	808.5	855.1	834.7
32.5°	772.1	766.1	746.1	712.4	665.4	636.1	683.3	746.0	847.5	902.0	870.4
35°	830.5	823.5	805.4	774.3	733.8	686.6	716.4	781.7	902.7	978.3	918.9
37.5°	887.5	879.3	859.8	826.9	798.5	753.9	762.1	827.7	976.3	1071.0	983.3
40°	951.5	939.7	915.9	883.3	855.8	832.8	822.3	884.0	1051.0	1174.4	1063.5
42.5°	1013.4	1002.2	973.9	946.1	911.5	905.0	892.0	949.9	1132.7	1288.1	1145.1
45°	1080.1	1066.8	1032.4	997.2	975.5	952.9	959.5	1015.9	1212.8	1403.9	1230.6
47.5°	1142.7	1127.7	1087.1	1048.0	1036.0	993.2	1021.4	1088.3	1296.1	1521.4	1315.3
50°	1176.5	1161.6	1127.9	1092.5	1083.1	1043.0	1088.6	1168.1	1383.4	1638.6	1396.6
52.5°	1204.6	1188.6	1144.5	1124.9	1122.1	1097.2	1171.3	1259.1	1470.7	1742.0	1475.1
55°	1234.6	1216.8	1160.5	1142.9	1155.7	1157.8	1269.4	1362.4	1563.0	1842.8	1549.2
57.5°	1269.2	1246.6	1175.9	1158.0	1188.5	1229.0	1382.0	1469.5	1653.7	1936.4	1615.2
60°	1301.8	1278.9	1205.4	1182.2	1223.7	1311.5	1511.3	1599.2	1756.3	2019.7	1677.5
62.5°	1308.1	1289.3	1229.0	1228.8	1271.7	1407.7	1664.3	1730.0	1846.1	2102.0	1733.4
65°	1197.4	1185.6	1149.8	1227.0	1340.5	1546.4	1834.6	1897.4	1960.1	2173.9	1782.6
67.5°	911.3	913.0	910.4	1059.2	1284.9	1745.6	2081.4	2076.6	2100.9	2254.6	1839.1
70°	416.8	426.1	487.3	731.1	1029.4	1768.5	2489.3	2427.2	2277.8	2359.1	1888.0
72.5°	225.2	232.4	257.3	354.2	618.9	1572.4	2794.1	2838.3	2512.9	2429.5	1834.3
75°	165.2	169.2	186.5	225.2	259.9	1168.7	2684.9	2911.5	2542.3	2265.4	1583.9
77.5°	123.6	125.5	139.6	178.4	133.0	616.1	2145.3	2411.2	2176.3	1861.3	1170.0
80°	89.7	91.7	102.3	133.9	93.3	225.3	1473.1	1692.5	1490.5	1186.4	583.1
82.5°	61.9	62.7	67.3	91.1	65.1	87.5	835.9	992.5	832.1	416.4	157.4
85°	37.3	38.3	40.4	53.1	37.0	41.5	360.8	373.2	248.7	99.5	49.0
87.5°	15.4	16.4	17.9	22.3	14.6	11.6	59.6	74.7	46.5	29.2	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

REPORT NUMBER: P959196
 CATALOG NUMBER: NAV-SB1A-722-U-SL3

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	681.6	681.6	681.6	681.6	681.6	681.6	681.6	681.6	681.6	681.6	681.6
2.5°	682.6	681.2	677.4	672.2	667.5	661.4	658.9	656.6	654.7	650.9	649.0
5°	686.9	683.1	672.8	659.7	644.6	628.3	612.3	601.3	591.9	585.0	579.1
7.5°	693.2	686.0	667.5	640.4	606.1	570.9	539.2	516.6	499.6	493.4	482.7
10°	699.8	691.2	658.9	611.3	552.0	497.8	455.7	432.6	418.9	414.5	407.7
12.5°	707.6	695.1	645.4	570.7	491.5	432.1	395.3	381.8	374.7	372.4	373.0
15°	718.9	698.2	625.2	520.0	433.7	384.2	360.4	351.0	347.4	347.2	348.0
17.5°	727.5	698.8	593.9	465.7	389.4	355.2	335.6	332.0	334.5	338.0	339.4
20°	737.2	693.4	552.8	416.2	358.2	329.8	321.6	324.0	329.8	335.0	336.8
22.5°	743.9	683.6	503.1	377.6	331.2	315.2	314.9	319.8	323.1	325.6	327.0
25°	749.9	667.1	450.3	345.2	309.0	306.5	310.9	309.2	307.1	309.2	310.7
27.5°	754.3	640.8	403.1	316.8	293.5	300.4	297.9	294.3	294.1	295.3	297.2
30°	753.0	605.9	364.4	289.9	282.5	289.3	283.1	282.5	281.9	282.5	284.6
32.5°	753.0	566.1	334.7	271.3	275.5	272.9	272.2	270.9	268.4	268.2	270.9
35°	757.2	526.4	309.0	261.3	269.7	263.5	263.9	260.5	255.5	253.1	255.5
37.5°	765.7	494.5	283.7	256.5	259.5	259.3	257.7	251.9	243.1	235.5	238.1
40°	786.5	485.0	266.3	254.3	254.7	257.1	252.9	241.7	221.7	209.4	210.9
42.5°	819.1	500.8	262.5	248.9	251.5	253.9	245.7	219.8	205.6	198.1	198.1
45°	860.4	528.4	270.7	241.1	244.0	248.2	223.8	211.4	205.0	205.2	206.1
47.5°	912.8	557.4	285.9	234.3	233.0	235.3	209.2	201.6	192.8	195.0	200.6
50°	973.2	586.7	300.2	225.2	220.8	213.0	199.8	192.6	181.4	176.2	177.6
52.5°	1038.8	615.1	306.1	213.9	207.6	198.5	193.4	184.6	171.0	162.5	162.3
55°	1101.0	640.8	299.6	200.6	194.3	187.4	186.5	181.2	166.6	154.7	154.7
57.5°	1159.7	662.5	283.7	187.0	181.0	176.8	182.1	179.6	161.2	145.9	145.0
60°	1209.4	677.2	260.5	173.2	169.0	166.8	175.0	174.2	153.6	136.4	135.8
62.5°	1249.0	683.1	234.9	160.0	159.0	155.0	165.0	165.0	144.0	127.3	126.7
65°	1279.9	677.4	209.0	147.0	149.0	143.0	152.8	151.6	133.9	119.1	118.3
67.5°	1307.3	659.1	180.2	134.3	138.9	131.2	140.0	137.2	122.7	110.9	110.1
70°	1319.5	616.3	147.4	121.5	127.1	119.6	127.3	122.1	110.1	102.1	100.4
72.5°	1221.6	512.2	116.0	108.0	112.9	106.9	113.5	107.5	96.5	92.9	89.9
75°	1010.6	384.4	89.3	93.5	97.1	92.5	96.9	92.5	82.5	85.1	77.7
77.5°	734.0	259.5	68.4	78.1	79.7	77.3	81.1	76.2	67.1	66.5	63.6
80°	365.0	152.0	53.5	61.7	61.1	59.6	64.0	61.5	53.9	57.1	56.6
82.5°	105.7	65.1	38.9	43.4	42.1	42.5	45.7	46.9	70.3	69.7	71.3
85°	33.2	25.5	23.4	24.2	23.0	23.6	27.0	53.5	49.5	29.0	31.4
87.5°	8.6	8.8	5.8	6.1	6.4	7.6	8.6	32.6	15.6	10.1	10.8
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)