

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: P959206

Luminaire Tested: **NAV-SB1A-722-U-T2R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P959206
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-3)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB1A-722-U-T2R
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 2200K, 350mA LIGHTSQUARE WITH 26 LEDS AND TYPE II ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3870.4 lumens
Efficiency: N/A
Efficacy: 125.3 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

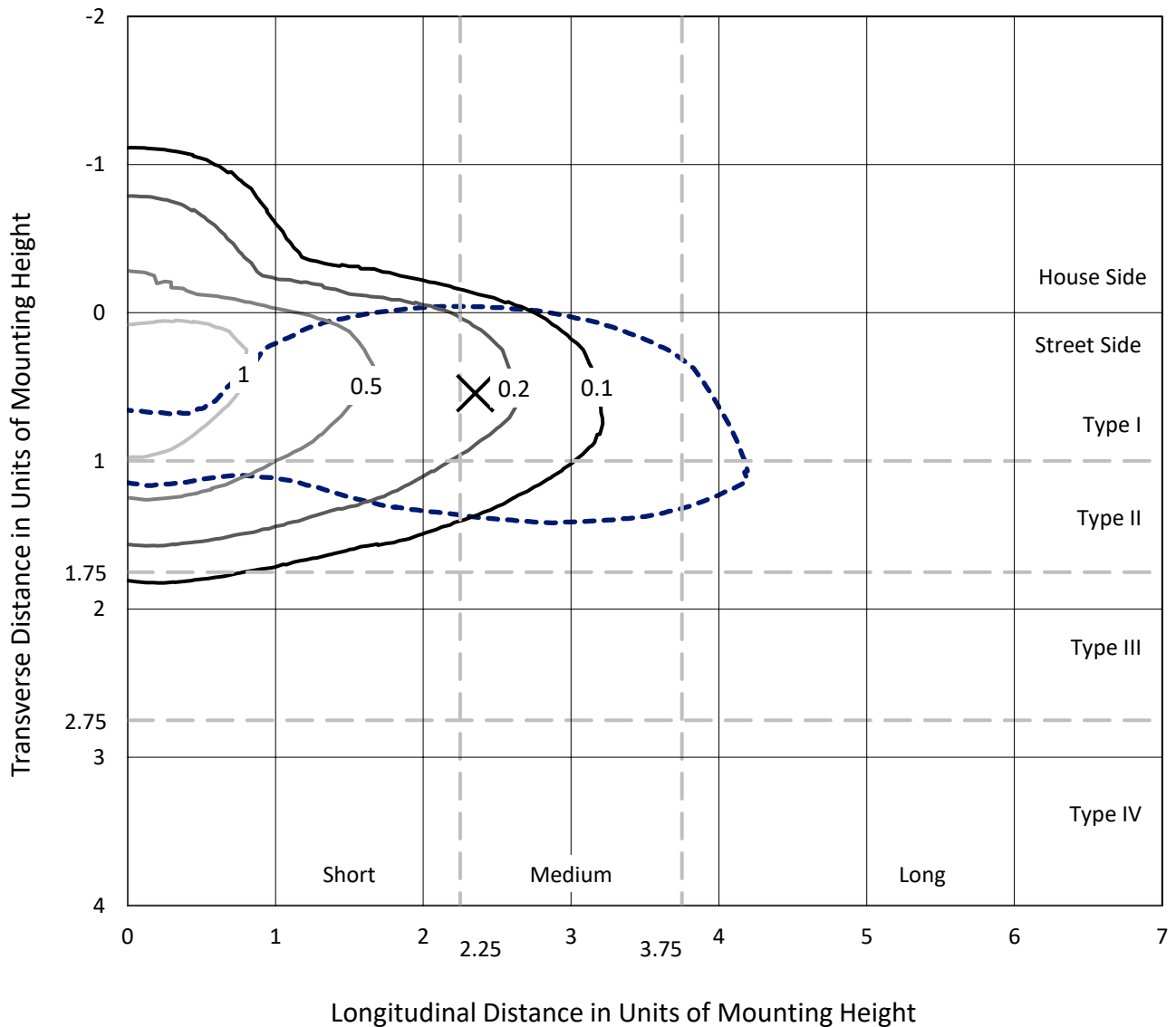
Input Watts (W): 30.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

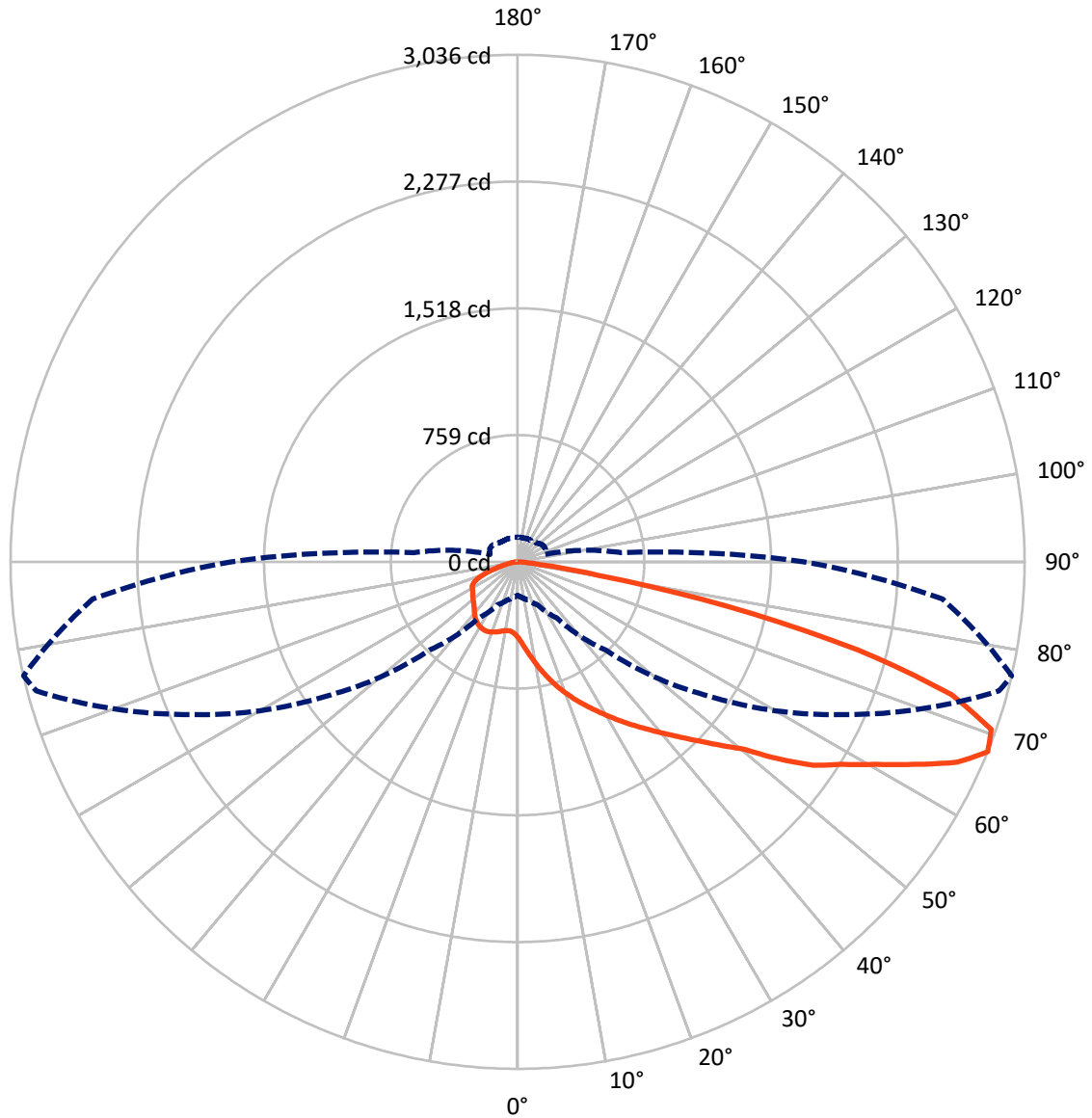
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.4 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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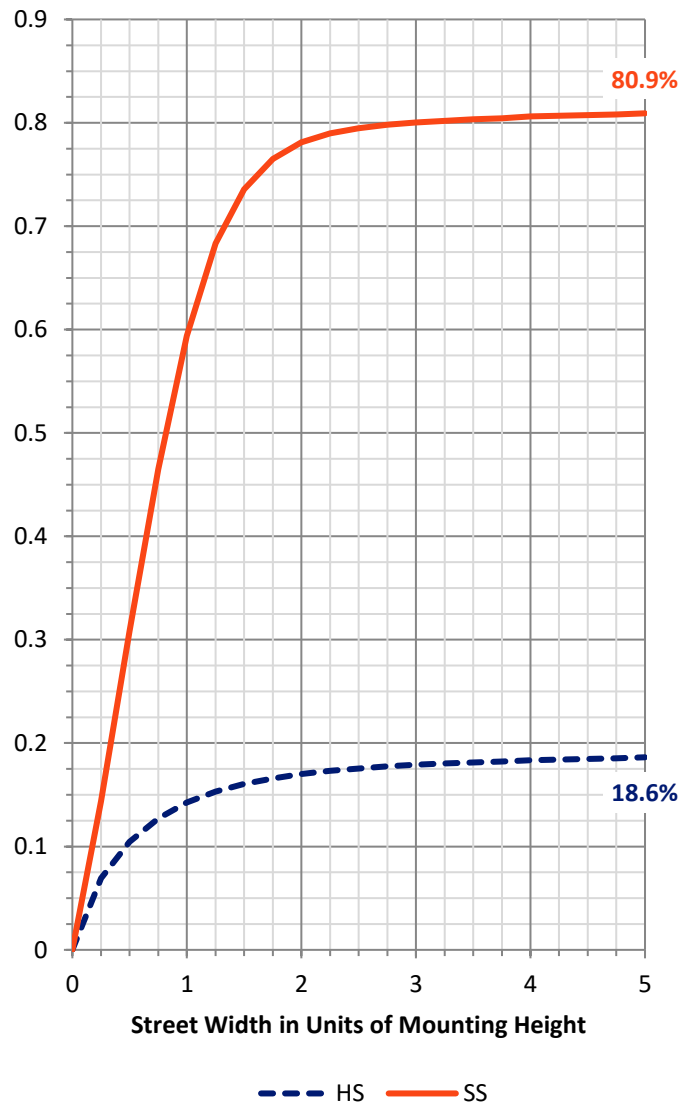
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	732.1	0.0	732.1
	% Fixture	18.9	0.0	18.9
Street Side	Lumens	3138.3	0.0	3138.3
	% Fixture	81.1	0.0	81.1
Total	Lumens	3870.4	0.0	3870.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	48.7	1.3
10°-20°	174.9	4.5
20°-30°	330.2	8.5
30°-40°	531.9	13.7
40°-50°	727.6	18.8
50°-60°	820.7	21.2
60°-70°	766.0	19.8
70°-80°	419.9	10.8
80°-90°	50.7	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°	3870.4	100.0
0°-180°	3870.4	100.0

Coefficient of Utilization

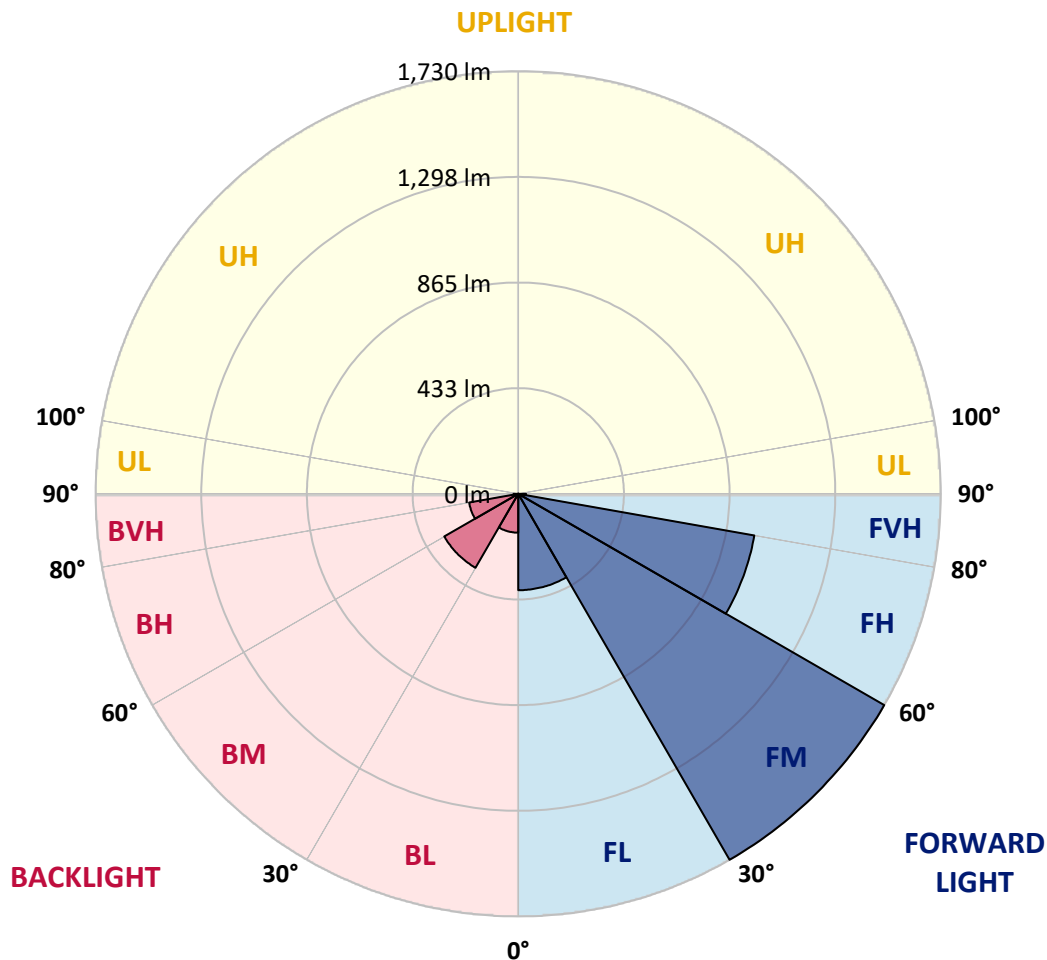


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	394.5	10.2			
FM (30°-60°)	1730.4	44.7			
FH (60°-80°)	981.7	25.4			G1/1800
FVH (80°-90°)	31.7	0.8			G1/100
BL (0°-30°)	159.2	4.1	B1/500		
BM (30°-60°)	349.7	9.0	B1/1000		
BH (60°-80°)	204.3	5.3	B1/500		G1/500
BVH (80°-90°)	19.0	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-G1
 Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	454.1	454.1	454.1	454.1	454.1	454.1	454.1	454.1	454.1	454.1	454.1
2.5°	568.6	572.6	567.6	567.6	550.8	542.0	525.2	512.5	489.4	485.4	470.3
5°	672.1	677.1	670.0	667.1	647.3	629.1	601.0	573.2	532.3	528.1	492.3
7.5°	752.2	758.6	752.5	749.2	731.6	711.2	678.2	639.5	581.8	573.6	521.8
10°	817.5	818.6	816.5	817.7	803.9	787.2	753.4	708.3	636.1	624.9	557.6
12.5°	854.5	859.1	863.0	870.3	867.9	857.5	827.1	773.2	693.6	679.3	596.6
15°	871.9	879.9	888.9	905.5	918.8	921.4	898.2	842.9	752.2	734.8	635.9
17.5°	878.1	885.7	899.8	923.8	952.6	972.0	961.6	910.6	810.2	790.2	677.3
20°	909.5	911.6	920.2	943.0	974.2	1006.3	1014.1	975.8	867.5	844.9	720.1
22.5°	976.5	972.2	974.6	984.9	1007.4	1038.5	1056.3	1033.3	926.4	900.5	763.2
25°	1087.4	1074.6	1061.9	1049.9	1061.3	1078.8	1099.0	1090.8	988.2	955.2	806.8
27.5°	1227.5	1212.0	1183.8	1144.4	1130.6	1136.8	1145.7	1144.2	1045.3	1011.9	851.7
30°	1365.4	1347.2	1313.6	1256.6	1220.3	1204.0	1197.1	1192.5	1107.4	1071.8	897.1
32.5°	1475.4	1461.0	1428.1	1364.4	1311.6	1283.6	1261.1	1244.7	1172.4	1136.8	944.9
35°	1571.7	1558.3	1520.6	1451.1	1393.7	1364.0	1334.3	1299.4	1239.8	1204.0	996.5
37.5°	1659.7	1646.3	1594.5	1522.2	1464.4	1443.9	1417.5	1358.1	1307.6	1273.7	1051.0
40°	1715.1	1712.2	1663.9	1581.9	1522.0	1511.8	1503.0	1426.3	1382.7	1351.2	1111.0
42.5°	1729.4	1735.9	1697.6	1630.3	1573.2	1565.0	1585.5	1503.4	1467.1	1436.8	1179.0
45°	1695.2	1714.2	1689.0	1643.3	1609.5	1605.0	1658.7	1587.7	1560.4	1532.8	1260.9
47.5°	1608.7	1640.8	1630.5	1624.1	1619.3	1638.3	1722.9	1677.2	1666.0	1642.0	1354.3
50°	1434.1	1495.0	1513.2	1553.6	1599.9	1664.0	1781.6	1774.9	1789.5	1765.4	1468.2
52.5°	1132.2	1216.1	1321.6	1422.7	1540.4	1655.5	1845.8	1915.2	1976.7	1963.5	1649.2
55°	934.6	972.4	1053.5	1238.9	1424.9	1619.3	1874.8	2028.5	2162.5	2150.8	1786.5
57.5°	782.8	816.5	866.4	1021.3	1250.3	1537.2	1892.8	2097.6	2289.7	2288.6	1922.0
60°	619.9	655.7	706.8	816.5	1046.3	1395.3	1888.8	2176.3	2452.2	2462.2	2087.2
62.5°	436.1	475.5	532.3	634.6	837.9	1211.6	1807.3	2233.3	2643.4	2670.5	2286.0
65°	286.7	312.6	355.5	443.7	624.3	975.2	1651.7	2240.6	2848.0	2893.9	2472.6
67.5°	201.0	210.9	236.2	284.1	411.5	747.8	1403.7	2164.1	2984.4	3036.2	2553.5
70°	156.8	161.8	174.7	193.8	258.5	502.9	1075.6	1965.1	2955.3	3009.2	2469.0
72.5°	135.5	140.2	145.0	147.4	173.4	310.5	728.7	1643.1	2680.6	2717.1	2146.8
75°	122.9	124.0	128.0	127.3	132.2	201.4	420.6	1197.1	2115.0	2102.4	1584.8
77.5°	103.3	104.9	111.5	110.5	117.5	137.7	218.3	772.5	1371.1	1285.7	882.1
80°	87.5	88.4	95.5	94.3	102.1	99.7	111.5	393.8	581.6	492.7	254.3
82.5°	30.3	37.5	72.9	75.1	77.9	60.4	64.4	160.6	177.6	136.0	53.3
85°	14.8	15.8	37.2	52.8	52.6	30.3	31.4	57.3	56.0	44.0	17.7
87.5°	2.4	3.0	4.4	20.6	16.4	8.0	10.8	11.2	11.6	9.9	4.0
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°	454.1	454.1	454.1	454.1	454.1	454.1	454.1	454.1	454.1	454.1	454.1
2.5°	459.1	449.2	428.1	408.8	393.6	379.0	370.8	363.8	359.8	359.1	359.1
5°	471.5	450.9	412.8	380.6	359.6	344.0	335.9	330.7	328.1	326.5	326.3
7.5°	489.2	459.1	404.8	368.2	346.2	335.1	330.9	330.0	329.8	330.0	330.7
10°	513.8	472.5	404.0	365.2	346.9	340.6	340.4	340.6	341.4	341.6	341.8
12.5°	540.4	486.3	407.1	367.8	354.4	351.1	350.4	350.2	350.9	351.3	351.5
15°	569.4	504.5	412.6	373.4	362.8	359.3	358.6	357.4	357.2	357.0	356.8
17.5°	599.2	522.4	418.5	379.4	368.2	363.3	361.0	358.2	356.0	355.5	356.0
20°	629.3	540.3	422.7	382.4	368.6	361.6	357.2	352.4	348.6	346.4	347.3
22.5°	661.5	558.8	425.4	381.6	365.0	355.5	347.5	341.8	336.0	332.2	332.4
25°	692.9	575.0	425.2	377.4	358.0	345.8	335.7	328.4	320.4	316.4	316.4
27.5°	723.0	589.6	420.1	370.0	348.0	334.5	322.3	313.6	305.9	302.1	301.9
30°	754.2	601.8	412.4	359.3	336.2	321.2	307.9	300.5	293.5	289.9	289.7
32.5°	785.2	612.9	401.4	345.8	322.7	308.3	295.1	288.3	284.1	284.1	284.3
35°	817.9	620.7	386.8	330.3	308.3	294.5	284.1	280.1	279.7	277.3	276.8
37.5°	852.5	625.8	369.0	314.3	294.1	281.1	277.9	273.1	269.2	263.9	263.1
40°	888.9	630.7	347.7	297.7	279.1	271.9	270.5	264.1	252.8	240.0	238.1
42.5°	933.1	634.2	325.4	281.1	263.3	261.0	262.9	251.9	233.8	224.2	224.4
45°	984.2	639.7	305.0	264.8	247.1	247.1	255.5	241.2	226.1	220.2	221.2
47.5°	1050.5	652.7	286.1	246.7	232.2	236.2	239.1	228.2	219.8	212.4	212.2
50°	1146.4	683.9	266.5	228.6	220.8	228.8	224.6	218.1	208.4	202.3	201.8
52.5°	1265.5	702.2	249.2	212.2	210.9	218.9	213.0	206.9	199.6	191.6	190.0
55°	1346.5	705.6	234.5	200.2	204.4	203.6	201.4	196.0	192.0	181.4	181.6
57.5°	1437.3	712.5	222.5	193.0	200.2	191.4	190.5	186.0	180.8	173.6	171.2
60°	1545.8	723.0	212.2	190.2	196.6	183.4	179.4	177.6	172.4	168.8	169.8
62.5°	1664.0	732.7	201.6	190.5	192.4	175.6	169.6	169.0	165.8	164.6	164.6
65°	1744.8	706.4	188.4	190.2	185.8	167.6	160.0	159.8	157.2	156.8	156.6
67.5°	1716.6	623.5	170.7	184.6	179.0	159.6	151.3	150.5	147.1	147.3	147.3
70°	1575.5	505.2	146.1	170.9	170.7	152.4	142.1	139.5	134.9	135.6	136.4
72.5°	1311.0	374.4	113.1	147.8	157.2	145.9	131.5	127.3	121.5	122.3	122.1
75°	946.8	254.5	82.3	112.4	136.8	138.1	121.1	113.9	106.9	108.0	108.4
77.5°	484.5	144.2	60.6	77.5	107.5	125.5	111.7	102.1	100.4	111.7	110.1
80°	158.1	72.4	41.9	54.3	70.5	102.7	97.9	86.9	86.5	89.1	76.6
82.5°	47.2	30.5	27.0	35.8	38.9	78.7	84.5	65.7	56.6	59.6	61.5
85°	16.2	14.8	15.4	17.7	18.6	46.1	59.1	43.6	41.2	45.3	44.8
87.5°	3.8	5.2	4.4	4.0	4.0	11.2	23.0	18.1	25.2	16.8	16.2
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)