

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: P881526

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

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P881526
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-4)
Test Lab: INNOVATION CENTER
Issue Date: 10/7/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB1A-722-U-T2-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 2200K, 350mA LIGHTSQUARE WITH 26 LEDS AND TYPE II OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2612 lumens
Efficiency: N/A
Efficacy: 84.5 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

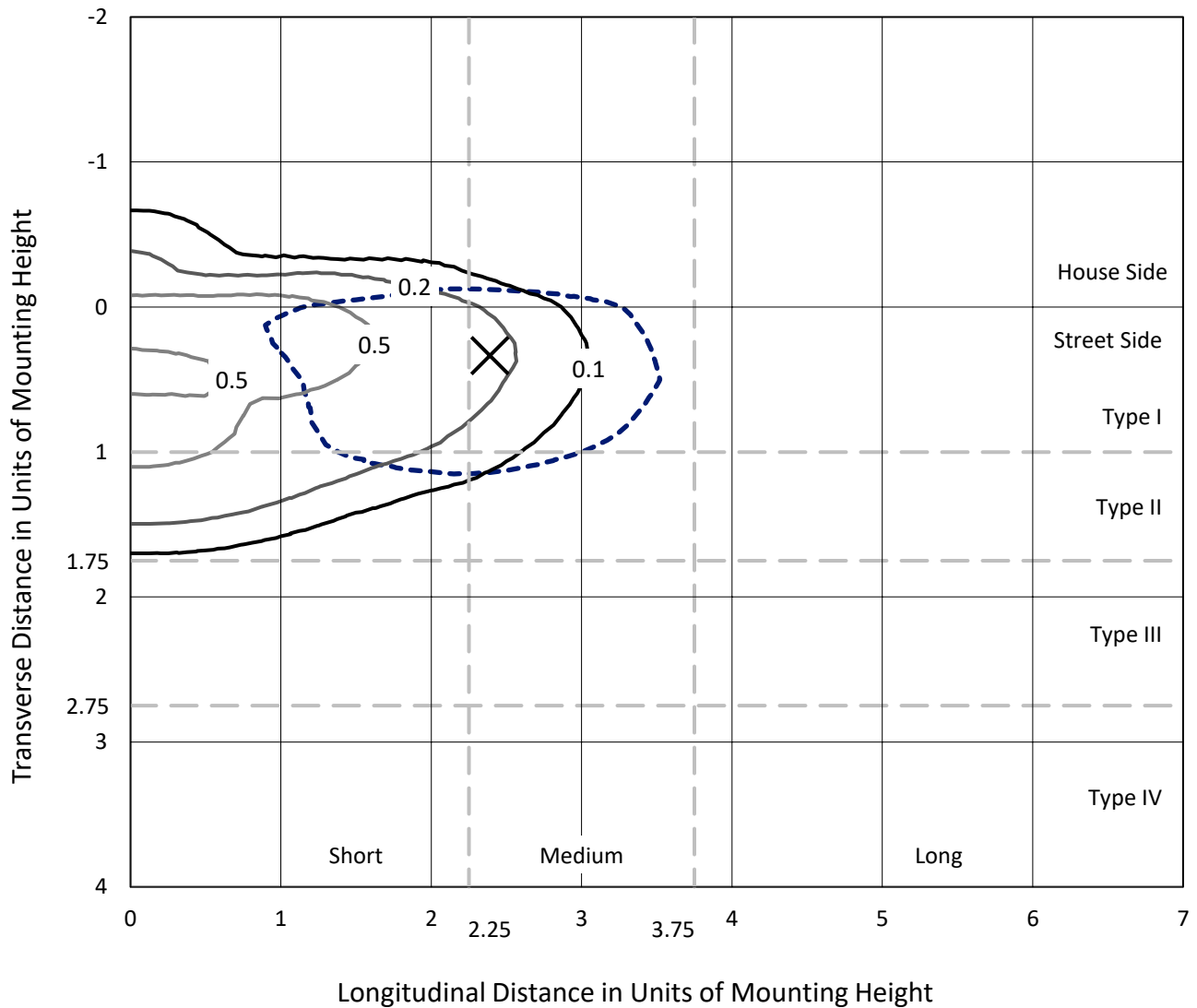
Input Watts (W): 30.9
Input Voltage (V): 120.0
Input Current (Ain): 0.263
Voltage Rise (V): NR
Power Factor: 0.995
Total Harmonic Distortion (THDi): 6.356
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

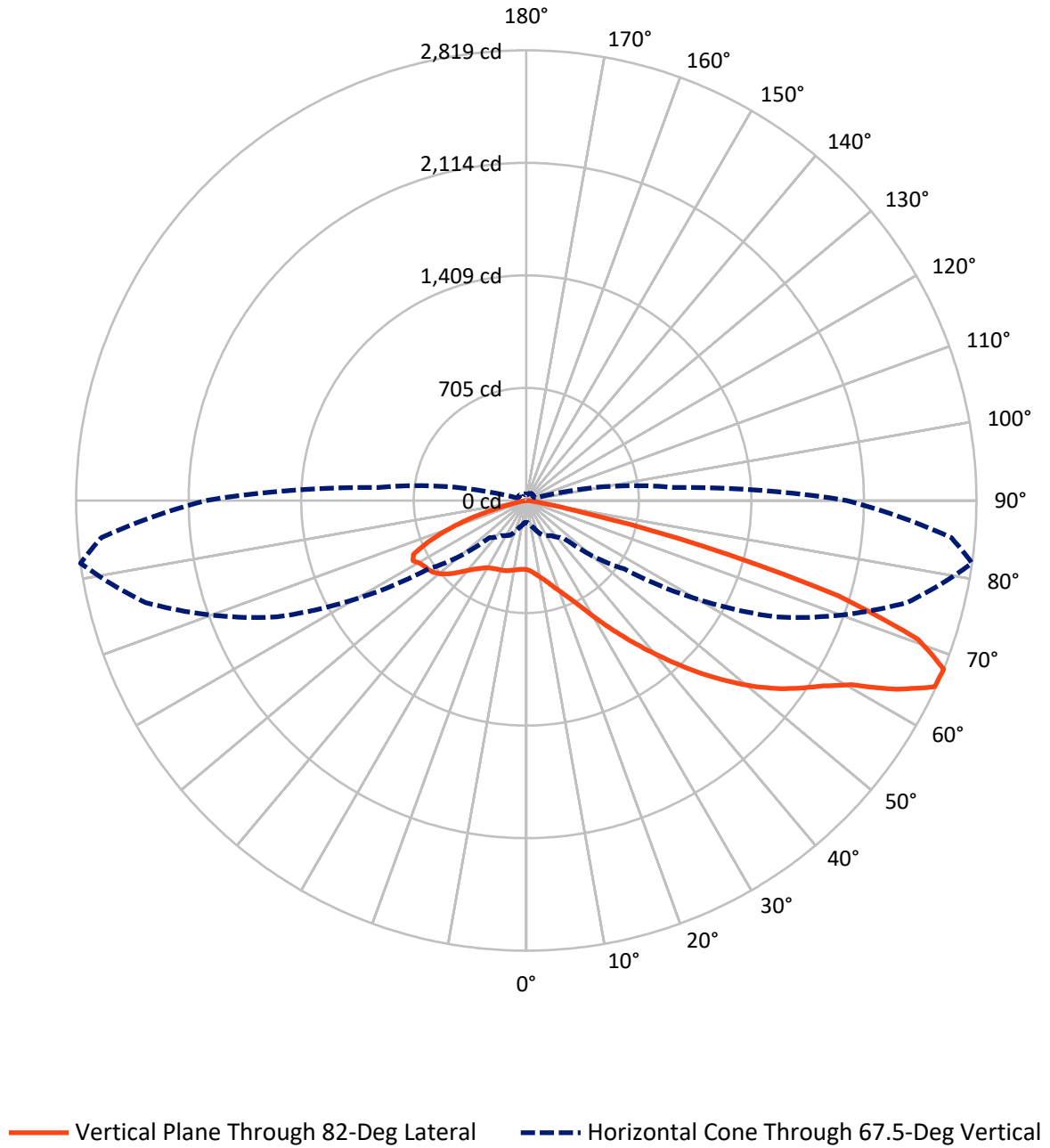
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.9 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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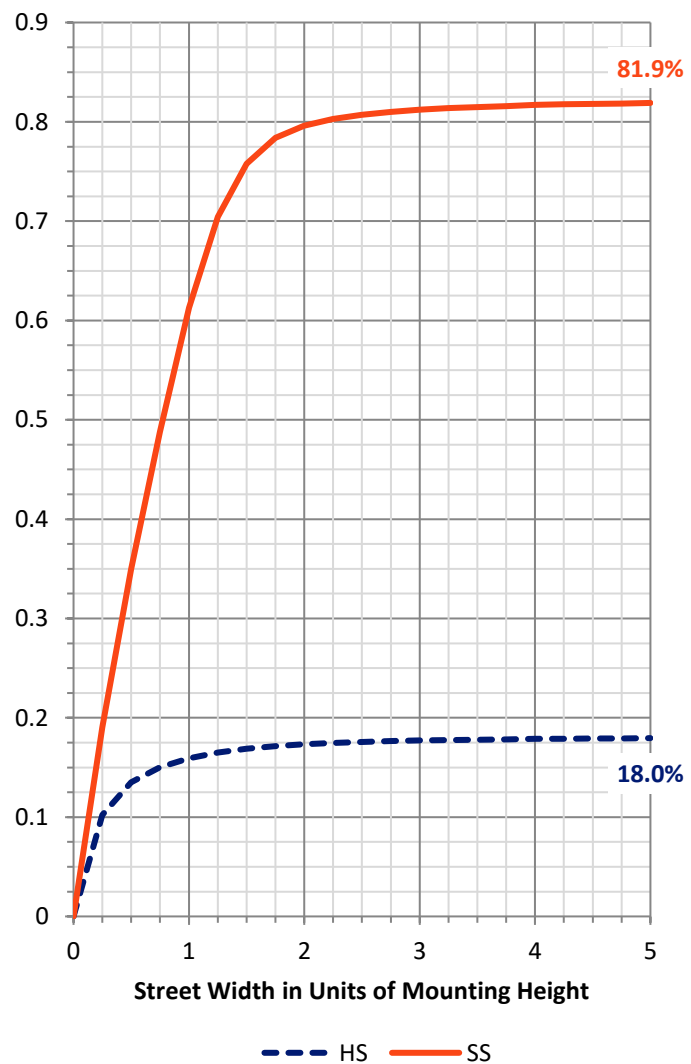
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	473.1	0.0	473.1
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	2138.9	0.0	2138.9
	% Fixture	81.9	0.0	81.9
Total	Lumens	2612.0	0.0	2612.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	38.6	1.5
10°-20°	100.2	3.8
20°-30°	160.5	6.1
30°-40°	283.7	10.9
40°-50°	497.1	19.0
50°-60°	663.0	25.4
60°-70°	617.3	23.6
70°-80°	236.9	9.1
80°-90°	14.7	0.6
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°	2612.0	100.0
0°-180°	2612.0	100.0

Coefficient of Utilization



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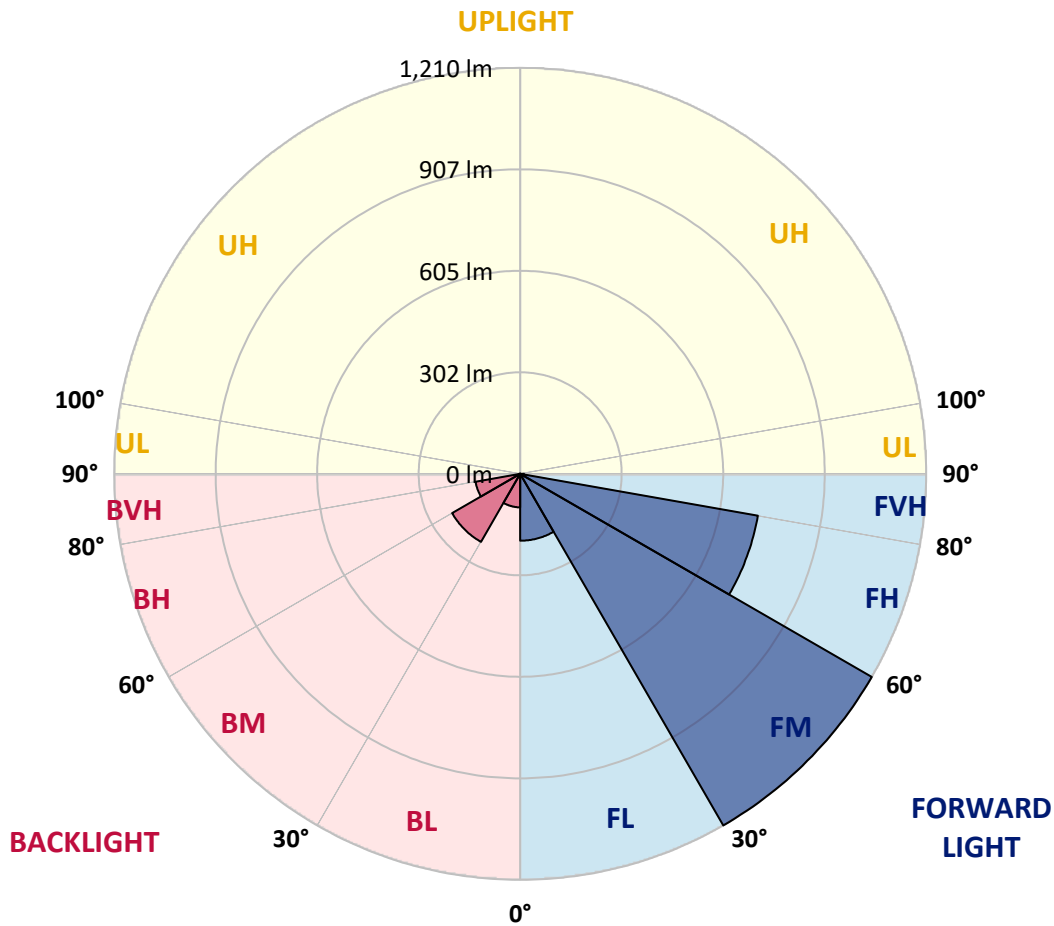
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	199.3	7.6			
FM (30°-60°)	1209.8	46.3			
FH (60°-80°)	719.1	27.5			G1/1800
FVH (80°-90°)	10.7	0.4			G1/100
BL (0°-30°)	99.9	3.8	B0/110		
BM (30°-60°)	234.2	9.0	B1/1000		
BH (60°-80°)	135.0	5.2	B1/500		G1/500
BVH (80°-90°)	4.0	0.2			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 II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°	85°
0°	432.7	432.7	432.7	432.7	432.7	432.7	432.7	432.7	432.7	432.7	432.7
2.5°	457.4	460.0	458.5	457.7	456.4	454.5	453.0	448.3	443.4	440.2	439.1
5°	466.6	469.2	469.0	469.8	470.7	471.3	470.9	465.6	458.7	453.2	450.0
7.5°	458.7	461.7	464.1	467.9	474.5	481.4	484.8	483.7	476.5	469.0	465.1
10°	436.3	439.5	445.3	454.2	468.1	483.1	495.7	501.5	497.0	488.8	483.3
12.5°	395.3	398.5	410.0	429.1	452.5	478.6	502.7	518.3	519.4	511.1	504.7
15°	349.2	352.4	364.6	388.7	424.3	466.2	506.4	536.0	545.9	538.8	531.1
17.5°	320.6	323.5	332.7	352.0	389.1	441.4	505.1	554.8	577.5	571.9	562.7
20°	312.0	314.4	318.8	332.3	363.1	415.6	496.5	572.4	611.6	608.4	598.0
22.5°	321.2	323.5	324.8	330.8	350.2	398.7	485.6	590.5	651.1	651.4	638.8
25°	342.5	344.7	343.2	347.0	355.4	393.4	481.4	611.8	700.7	704.8	690.5
27.5°	377.4	377.6	374.0	373.9	375.2	401.3	485.8	634.5	763.3	771.0	753.4
30°	447.6	444.8	431.0	416.2	409.4	425.0	497.8	661.4	837.2	851.0	828.8
32.5°	555.7	551.6	526.4	490.8	455.1	463.2	519.4	692.1	917.7	942.5	915.5
35°	673.1	671.9	645.6	592.8	530.3	517.5	554.6	732.3	1005.5	1045.0	1012.9
37.5°	782.1	781.6	766.5	704.3	628.3	593.3	611.0	785.0	1099.6	1156.7	1118.8
40°	881.8	883.5	868.4	812.8	736.2	690.5	687.7	850.0	1204.1	1278.4	1233.3
42.5°	967.9	969.8	954.6	913.4	842.9	798.1	781.9	929.8	1306.2	1409.1	1355.7
45°	1026.4	1038.1	1035.8	1002.9	952.3	905.9	895.2	1029.8	1422.7	1547.7	1485.1
47.5°	1043.0	1053.7	1070.6	1075.1	1044.3	998.6	1011.4	1150.3	1540.4	1686.5	1615.2
50°	1002.2	1012.1	1047.3	1094.1	1115.6	1101.5	1124.4	1279.5	1660.9	1824.9	1742.9
52.5°	921.7	931.8	976.2	1050.3	1137.7	1182.1	1237.8	1406.9	1777.7	1956.0	1863.8
55°	805.3	816.0	873.0	956.8	1095.4	1215.4	1332.4	1534.0	1884.7	2073.9	1972.9
57.5°	646.9	654.8	714.1	831.4	989.0	1182.3	1402.2	1672.8	1985.5	2189.7	2081.0
60°	421.6	428.6	497.4	628.3	812.6	1071.7	1416.1	1827.5	2119.4	2340.4	2226.8
62.5°	280.4	285.1	325.9	422.0	572.3	859.4	1334.6	1951.1	2315.7	2602.5	2476.7
65°	192.4	197.1	237.9	304.8	369.7	568.5	1100.5	1934.7	2493.6	2810.7	2662.0
67.5°	137.3	141.2	175.8	239.0	267.6	330.2	746.0	1725.6	2468.1	2818.6	2671.9
70°	98.4	100.6	129.2	186.2	212.7	198.4	414.9	1319.8	2161.0	2602.7	2468.4
72.5°	68.8	69.6	89.7	141.8	171.3	144.8	197.5	879.9	1634.4	2042.9	1913.7
75°	46.6	47.6	60.4	104.0	137.5	110.6	104.6	471.8	959.5	1130.8	1013.6
77.5°	28.6	29.0	38.9	71.1	102.9	84.2	67.3	199.9	371.2	364.5	310.7
80°	16.2	16.2	24.8	44.2	70.1	54.3	47.2	85.0	117.5	103.2	91.0
82.5°	9.0	9.2	18.1	27.5	46.5	32.2	26.0	39.3	50.8	44.9	39.1
85°	3.8	4.1	11.1	13.0	22.2	16.0	10.5	16.5	18.8	16.7	12.2
87.5°	0.4	0.6	3.4	2.4	2.6	3.2	1.5	3.2	2.6	2.6	1.9
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°	432.7	432.7	432.7	432.7	432.7	432.7	432.7	432.7	432.7	432.7	432.7
2.5°	435.5	432.7	425.6	417.3	406.4	401.1	394.0	389.1	385.0	385.3	381.6
5°	444.0	436.9	420.9	400.9	376.1	358.4	339.6	326.7	316.1	313.9	308.8
7.5°	455.7	444.4	416.4	380.4	338.5	306.7	278.3	260.1	247.1	243.0	238.8
10°	470.7	454.3	410.5	354.7	294.3	253.9	223.4	209.1	200.3	197.3	195.0
12.5°	488.2	465.8	402.8	323.3	248.8	209.9	190.5	183.4	180.5	179.6	179.0
15°	510.2	480.1	391.2	286.0	210.2	183.0	174.7	173.8	174.1	173.8	173.6
17.5°	536.3	495.7	372.2	247.7	184.3	169.3	166.2	167.0	167.9	167.7	167.4
20°	564.9	511.1	347.9	213.6	166.6	159.5	157.8	158.5	159.3	158.9	158.7
22.5°	597.5	527.7	321.0	187.1	154.8	150.4	148.6	148.8	148.8	148.0	147.6
25°	636.4	545.9	292.8	168.3	145.7	142.4	140.1	139.4	138.2	136.0	135.6
27.5°	682.8	565.3	265.7	155.1	138.6	135.4	132.8	130.9	128.1	124.3	123.9
30°	735.1	588.8	242.8	146.9	133.0	129.8	126.8	123.9	119.8	115.1	114.7
32.5°	796.6	614.0	226.0	141.4	127.9	124.5	120.9	117.5	113.0	108.3	108.5
35°	870.0	644.5	216.3	137.7	123.9	119.4	115.5	111.7	108.3	104.2	103.8
37.5°	949.5	676.8	213.3	135.8	121.3	114.3	109.8	107.2	106.8	104.4	104.2
40°	1036.6	715.2	215.5	134.6	118.5	109.4	104.6	104.0	104.9	100.6	100.8
42.5°	1128.7	760.7	219.3	133.3	114.5	104.6	99.9	99.9	99.1	93.1	93.1
45°	1228.4	813.2	223.0	130.1	109.8	99.7	96.1	94.8	91.6	85.8	85.6
47.5°	1328.8	866.6	225.9	124.3	104.2	95.5	92.3	89.3	84.6	79.4	79.2
50°	1424.2	914.5	222.8	115.7	97.8	91.6	88.2	84.1	79.0	75.4	74.8
52.5°	1509.3	956.1	210.1	105.5	91.0	87.4	84.4	80.1	76.0	72.2	71.8
55°	1583.4	989.7	187.5	95.9	85.0	83.9	80.9	75.4	69.8	66.6	66.2
57.5°	1654.5	1015.3	159.3	88.0	79.5	79.9	75.4	70.5	65.3	61.9	61.5
60°	1749.1	1049.5	130.7	80.7	73.7	74.8	70.0	66.4	59.8	55.5	54.9
62.5°	1900.3	1102.8	103.8	71.6	66.9	67.3	65.3	60.9	53.0	48.0	47.6
65°	2020.3	1083.2	81.8	61.9	59.2	59.8	59.8	55.1	46.6	40.8	40.2
67.5°	2006.8	927.5	65.3	52.3	51.9	52.3	53.6	49.6	41.4	36.7	35.9
70°	1848.6	737.7	52.3	43.4	45.1	44.2	48.0	45.3	37.2	32.5	32.0
72.5°	1508.4	531.5	39.9	35.9	34.6	36.1	43.3	40.8	31.0	25.8	25.2
75°	881.4	283.6	29.7	28.4	25.0	30.1	38.4	34.8	23.7	19.0	18.4
77.5°	287.0	98.9	21.8	20.9	18.6	24.3	32.7	29.3	19.4	15.0	14.5
80°	76.9	29.9	14.9	13.7	12.0	18.1	26.0	23.3	13.9	9.8	9.6
82.5°	30.8	12.6	8.7	7.7	6.6	12.4	20.5	18.8	10.3	6.2	6.2
85°	10.0	4.1	3.2	2.4	3.0	7.7	12.2	12.8	7.3	3.2	2.4
87.5°	1.3	0.6	0.6	0.8	0.6	1.3	3.8	3.6	2.1	0.4	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)