

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: P959204

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

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P959204
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-4)
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-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: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2774.7 lumens
Efficiency: N/A
Efficacy: 89.8 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

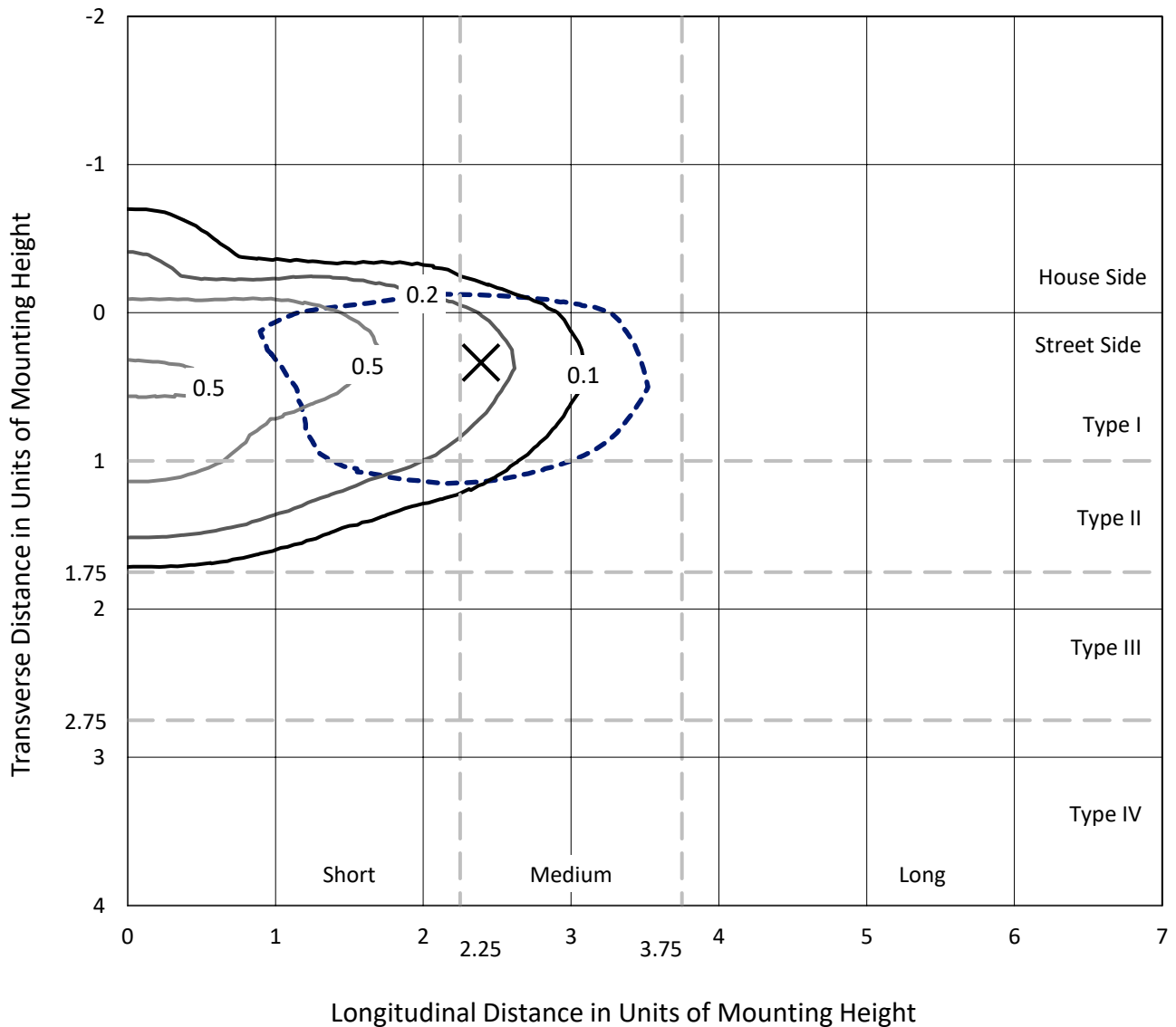
Input Watts (W): 30.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

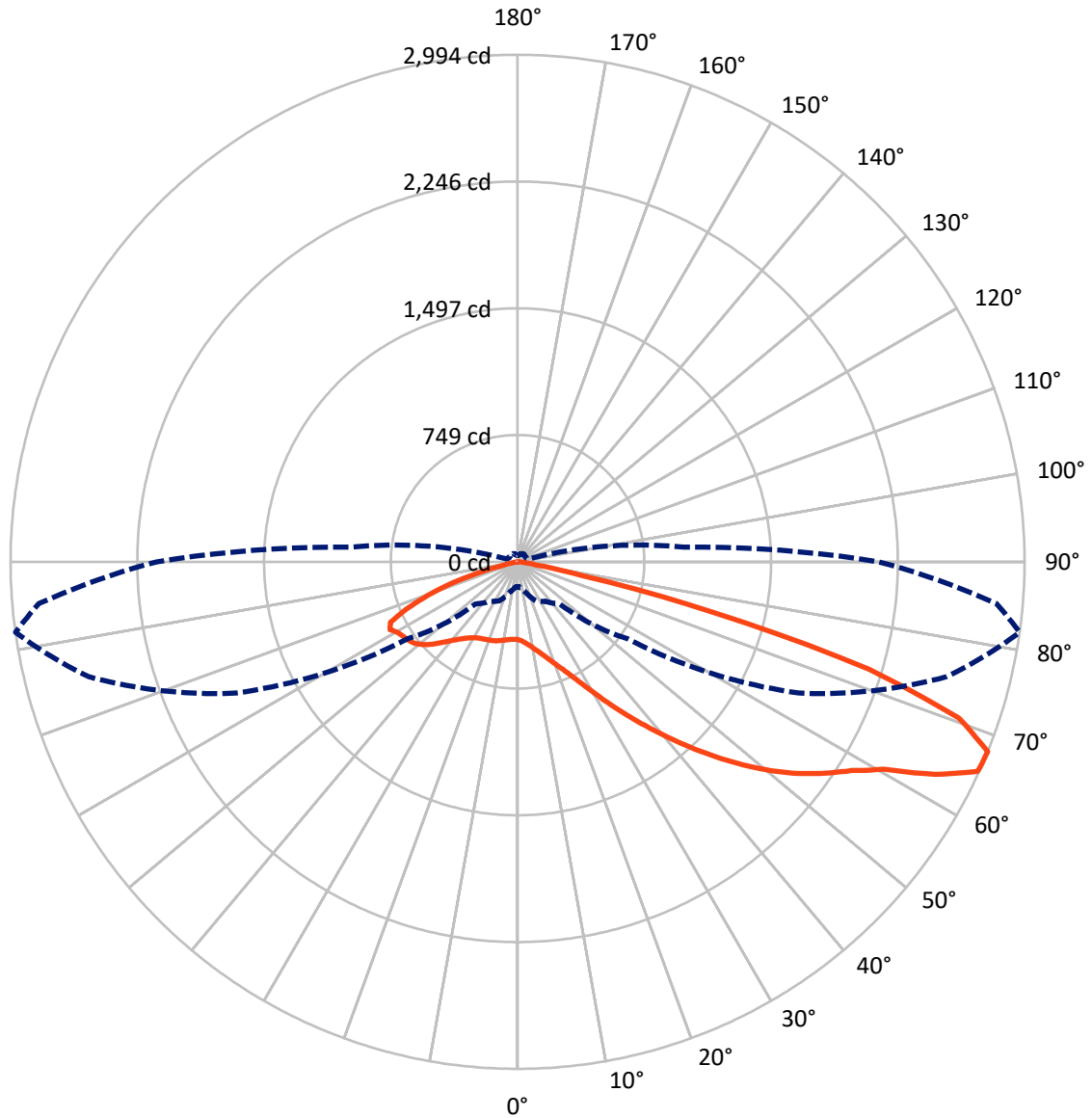
✕ Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 82-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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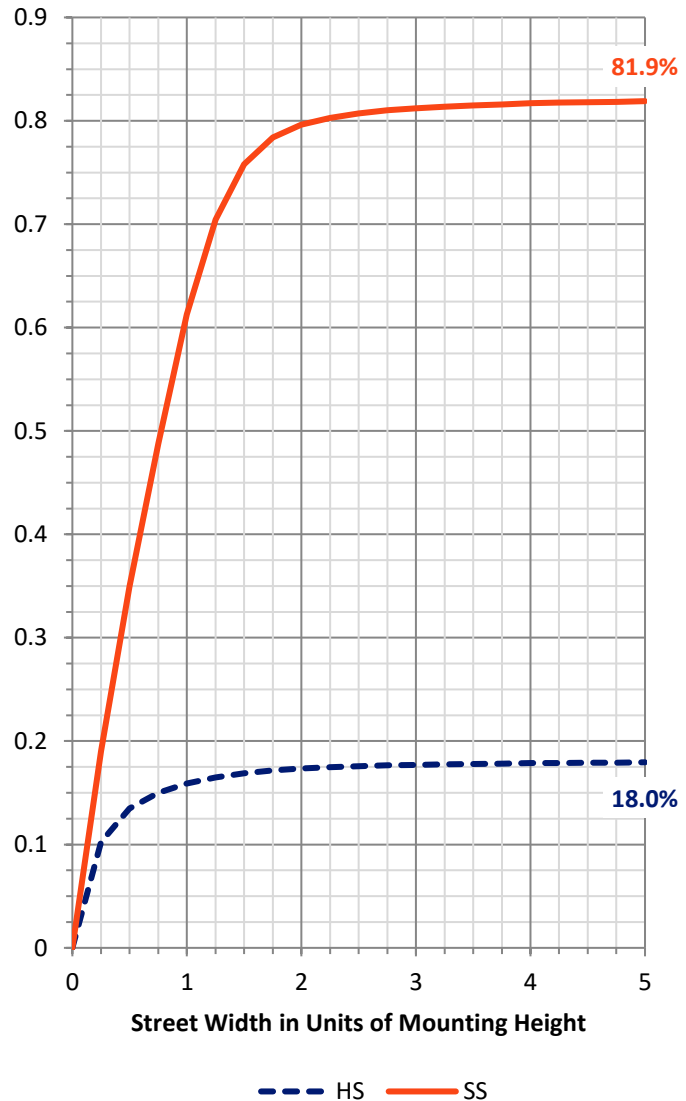
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	502.6	0.0	502.6
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	2272.1	0.0	2272.1
	% Fixture	81.9	0.0	81.9
Total	Lumens	2774.7	0.0	2774.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	41.0	1.5
10°-20°	106.4	3.8
20°-30°	170.5	6.1
30°-40°	301.4	10.9
40°-50°	528.1	19.0
50°-60°	704.3	25.4
60°-70°	655.7	23.6
70°-80°	251.7	9.1
80°-90°	15.6	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°	2774.7	100.0
0°-180°	2774.7	100.0

Coefficient of Utilization



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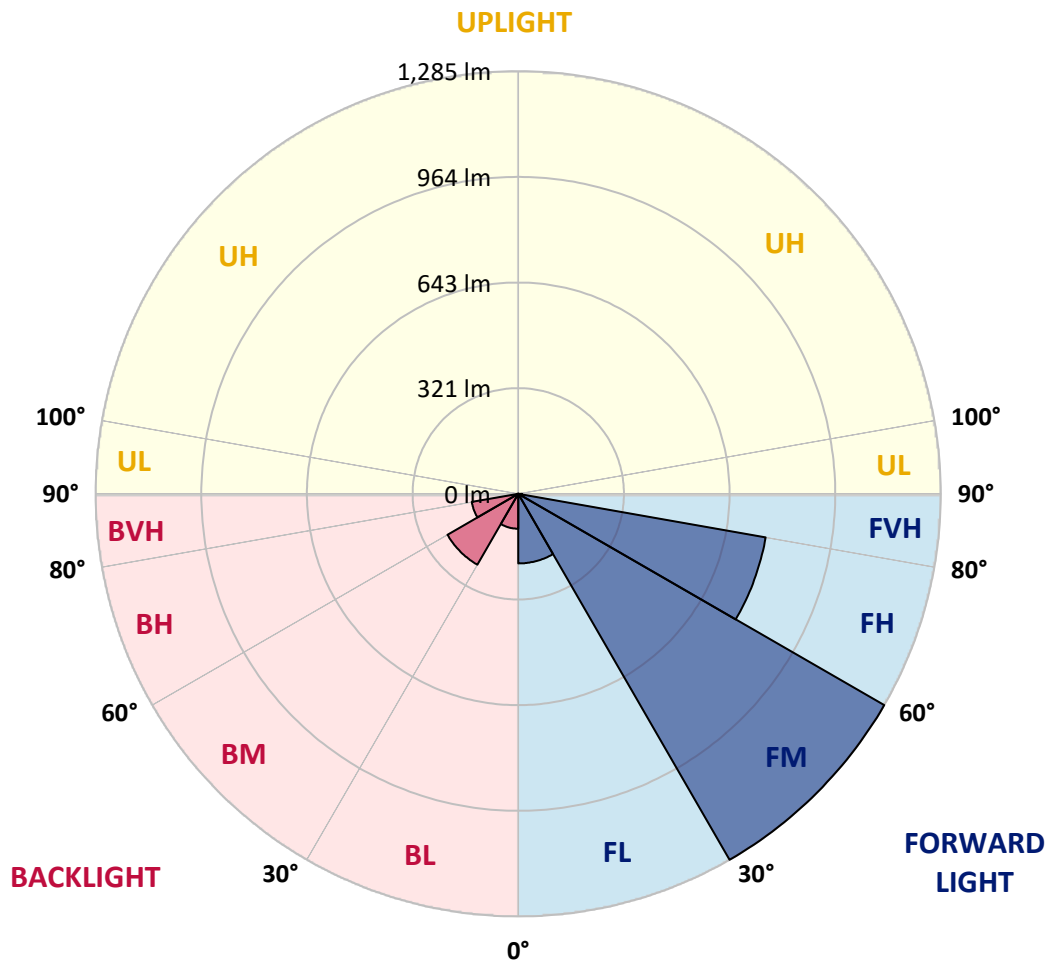
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	211.7	7.6			
FM (30°-60°)	1285.1	46.3			
FH (60°-80°)	763.9	27.5			G1/1800
FVH (80°-90°)	11.4	0.4			G1/100
BL (0°-30°)	106.1	3.8	B0/110		
BM (30°-60°)	248.7	9.0	B1/1000		
BH (60°-80°)	143.5	5.2	B1/500		G1/500
BVH (80°-90°)	4.3	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°	459.7	459.7	459.7	459.7	459.7	459.7	459.7	459.7	459.7	459.7	459.7
2.5°	485.8	488.6	487.1	486.3	484.8	482.9	481.2	476.2	471.1	467.7	466.5
5°	495.6	498.5	498.3	499.1	500.0	500.6	500.2	494.7	487.3	481.4	478.1
7.5°	487.3	490.5	493.0	497.0	504.0	511.4	515.0	513.8	506.2	498.3	494.0
10°	463.5	466.9	473.0	482.5	497.2	513.2	526.5	532.8	528.0	519.2	513.4
12.5°	419.9	423.3	435.5	455.9	480.6	508.4	534.0	550.5	551.8	542.9	536.2
15°	370.9	374.3	387.3	413.0	450.7	495.2	538.0	569.4	579.9	572.4	564.2
17.5°	340.6	343.6	353.4	373.9	413.3	468.8	536.6	589.3	613.5	607.5	597.7
20°	331.4	334.0	338.7	353.0	385.7	441.5	527.4	608.1	649.6	646.3	635.3
22.5°	341.2	343.6	345.0	351.4	372.0	423.5	515.8	627.3	691.6	692.0	678.7
25°	363.8	366.1	364.6	368.6	377.6	417.9	511.4	649.8	744.4	748.8	733.6
27.5°	401.0	401.2	397.4	397.2	398.5	426.3	516.0	674.0	810.9	819.1	800.3
30°	475.5	472.4	457.9	442.1	434.9	451.5	528.8	702.6	889.4	903.9	880.4
32.5°	590.3	585.9	559.1	521.4	483.5	492.0	551.8	735.1	974.9	1001.2	972.5
35°	714.9	713.8	685.8	629.7	563.3	549.8	589.2	777.9	1068.2	1110.1	1075.9
37.5°	830.9	830.2	814.3	748.1	667.5	630.3	649.0	833.8	1168.1	1228.8	1188.4
40°	936.7	938.5	922.5	863.4	782.1	733.6	730.5	902.9	1279.1	1358.0	1310.1
42.5°	1028.2	1030.2	1014.0	970.3	895.3	847.8	830.7	987.7	1387.6	1496.9	1440.1
45°	1090.3	1102.7	1100.3	1065.4	1011.7	962.3	950.9	1094.0	1511.3	1644.1	1577.6
47.5°	1107.9	1119.3	1137.2	1142.1	1109.4	1060.8	1074.4	1222.0	1636.3	1791.5	1715.8
50°	1064.6	1075.1	1112.5	1162.2	1185.0	1170.0	1194.4	1359.3	1764.3	1938.6	1851.5
52.5°	979.1	989.8	1037.0	1115.7	1208.6	1255.7	1314.9	1494.4	1888.5	2077.8	1979.9
55°	855.4	866.8	927.3	1016.4	1163.7	1291.1	1415.3	1629.5	2002.1	2203.0	2095.8
57.5°	687.2	695.6	758.5	883.1	1050.6	1255.9	1489.5	1776.9	2109.1	2326.1	2210.6
60°	447.9	455.3	528.4	667.5	863.3	1138.5	1504.3	1941.4	2251.4	2486.1	2365.5
62.5°	297.9	302.9	346.2	448.2	607.9	913.0	1417.8	2072.7	2460.0	2764.6	2631.0
65°	204.4	209.4	252.7	323.8	392.8	603.9	1169.0	2055.2	2648.9	2985.7	2827.8
67.5°	145.9	150.1	186.8	253.9	284.2	350.8	792.5	1833.1	2621.7	2994.1	2838.3
70°	104.4	106.9	137.2	197.7	225.9	210.7	440.6	1402.0	2295.6	2764.8	2622.2
72.5°	73.1	73.9	95.3	150.7	182.0	153.9	209.7	934.7	1736.2	2170.1	2032.9
75°	49.5	50.5	64.2	110.5	146.1	117.5	111.1	501.2	1019.3	1201.2	1076.8
77.5°	30.3	30.7	41.3	75.5	109.3	89.5	71.5	212.4	394.3	387.1	330.0
80°	17.2	17.2	26.3	46.9	74.5	57.7	50.1	90.3	124.8	109.7	96.7
82.5°	9.6	9.7	19.2	29.2	49.3	34.1	27.6	41.7	53.9	47.8	41.5
85°	4.0	4.4	11.8	13.7	23.6	17.0	11.2	17.6	20.0	17.7	13.0
87.5°	0.4	0.6	3.6	2.6	2.8	3.4	1.6	3.4	2.8	2.8	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°	459.7	459.7	459.7	459.7	459.7	459.7	459.7	459.7	459.7	459.7	459.7
2.5°	462.7	459.7	452.1	443.3	431.7	426.1	418.5	413.3	409.0	409.3	405.3
5°	471.7	464.0	447.1	425.9	399.5	380.8	360.8	347.0	335.8	333.4	328.0
7.5°	484.0	472.0	442.3	404.2	359.6	325.8	295.6	276.2	262.5	258.1	253.7
10°	500.0	482.7	436.1	376.8	312.6	269.7	237.3	222.1	212.8	209.5	207.2
12.5°	518.6	494.9	427.9	343.4	264.2	222.9	202.3	194.7	191.8	190.8	190.1
15°	542.0	510.0	415.5	303.8	223.3	194.3	185.6	184.6	185.0	184.6	184.4
17.5°	569.7	526.5	395.3	263.1	195.8	179.8	176.6	177.4	178.4	178.1	177.8
20°	600.1	542.9	369.6	226.9	177.0	169.4	167.6	168.4	169.2	168.8	168.6
22.5°	634.7	560.6	341.0	198.7	164.4	159.8	157.8	158.1	158.1	157.2	156.8
25°	676.0	579.9	311.1	178.8	154.8	151.2	148.8	148.0	146.8	144.4	144.0
27.5°	725.4	600.5	282.3	164.8	147.2	143.8	141.0	139.0	136.0	132.0	131.6
30°	780.9	625.5	257.9	156.0	141.2	137.9	134.7	131.6	127.2	122.3	121.9
32.5°	846.2	652.2	240.2	150.3	135.8	132.2	128.4	124.8	120.0	115.1	115.3
35°	924.1	684.6	229.7	146.3	131.6	126.9	122.7	118.7	115.1	110.7	110.3
37.5°	1008.6	718.9	226.5	144.2	128.8	121.5	116.6	113.9	113.5	110.9	110.7
40°	1101.2	759.7	229.0	143.0	125.9	116.2	111.1	110.5	111.5	106.9	107.1
42.5°	1199.0	808.1	233.0	141.7	121.7	111.1	106.1	106.1	105.3	98.9	98.9
45°	1304.9	863.8	236.9	138.3	116.6	105.9	102.1	100.7	97.3	91.1	90.9
47.5°	1411.5	920.6	240.0	132.0	110.7	101.5	98.1	94.9	89.9	84.3	84.2
50°	1512.9	971.5	236.8	122.9	103.8	97.3	93.7	89.3	83.9	80.2	79.5
52.5°	1603.3	1015.7	223.1	112.0	96.7	92.9	89.7	85.1	80.7	76.7	76.4
55°	1682.0	1051.3	199.2	101.9	90.3	89.1	85.9	80.2	74.1	70.7	70.3
57.5°	1757.6	1078.5	169.2	93.5	84.5	84.9	80.2	74.9	69.3	65.7	65.3
60°	1858.0	1114.9	138.9	85.7	78.3	79.5	74.3	70.5	63.6	58.9	58.3
62.5°	2018.6	1171.5	110.3	76.2	71.1	71.5	69.3	64.7	56.4	50.9	50.5
65°	2146.1	1150.7	86.9	65.7	62.9	63.6	63.6	58.5	49.5	43.4	42.7
67.5°	2131.7	985.2	69.3	55.6	55.1	55.6	56.9	52.8	44.0	38.9	38.1
70°	1963.7	783.7	55.6	46.1	48.0	46.9	50.9	48.2	39.6	34.5	33.9
72.5°	1602.4	564.6	42.3	38.1	36.8	38.3	45.9	43.4	33.0	27.4	26.8
75°	936.3	301.2	31.6	30.1	26.5	32.0	40.8	37.0	25.2	20.2	19.6
77.5°	304.8	105.1	23.2	22.1	19.8	25.7	34.7	31.2	20.6	16.0	15.4
80°	81.7	31.8	15.8	14.6	12.8	19.2	27.6	24.8	14.8	10.4	10.1
82.5°	32.8	13.4	9.2	8.2	7.0	13.2	21.7	20.0	11.0	6.6	6.6
85°	10.6	4.4	3.4	2.6	3.2	8.2	13.0	13.6	7.8	3.4	2.6
87.5°	1.4	0.6	0.6	0.8	0.6	1.4	4.0	3.8	2.2	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)