

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: P959722

Luminaire Tested: **NAV-SB1B-722-U-SL3-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P959722
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-13)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB1B-722-U-SL3-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 2200K, 450mA LIGHTSQUARE WITH 26 LEDS AND TYPE III SPILL
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3840.7 lumens
Efficiency: N/A
Efficacy: 96.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G1

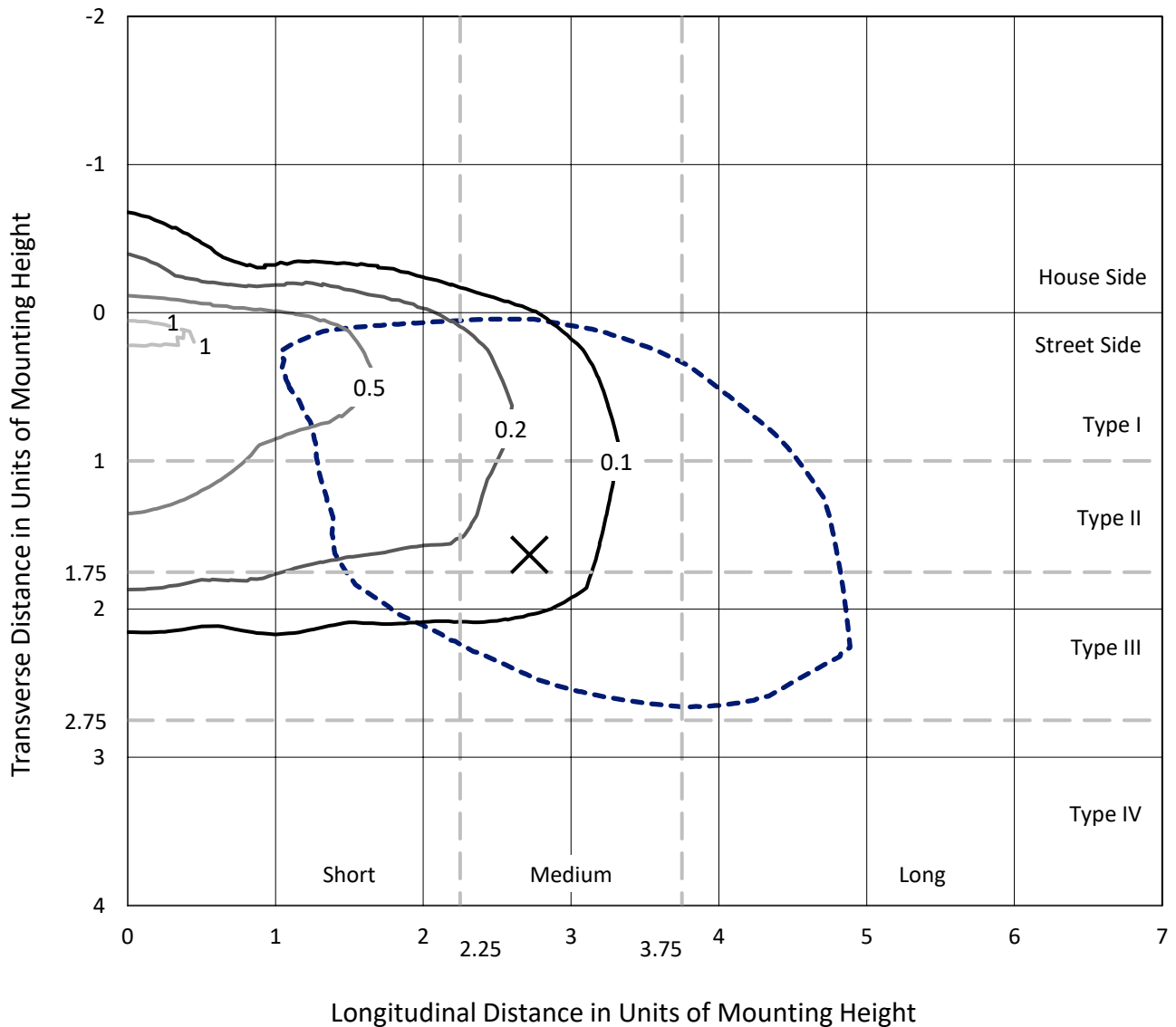
Input Watts (W): 39.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

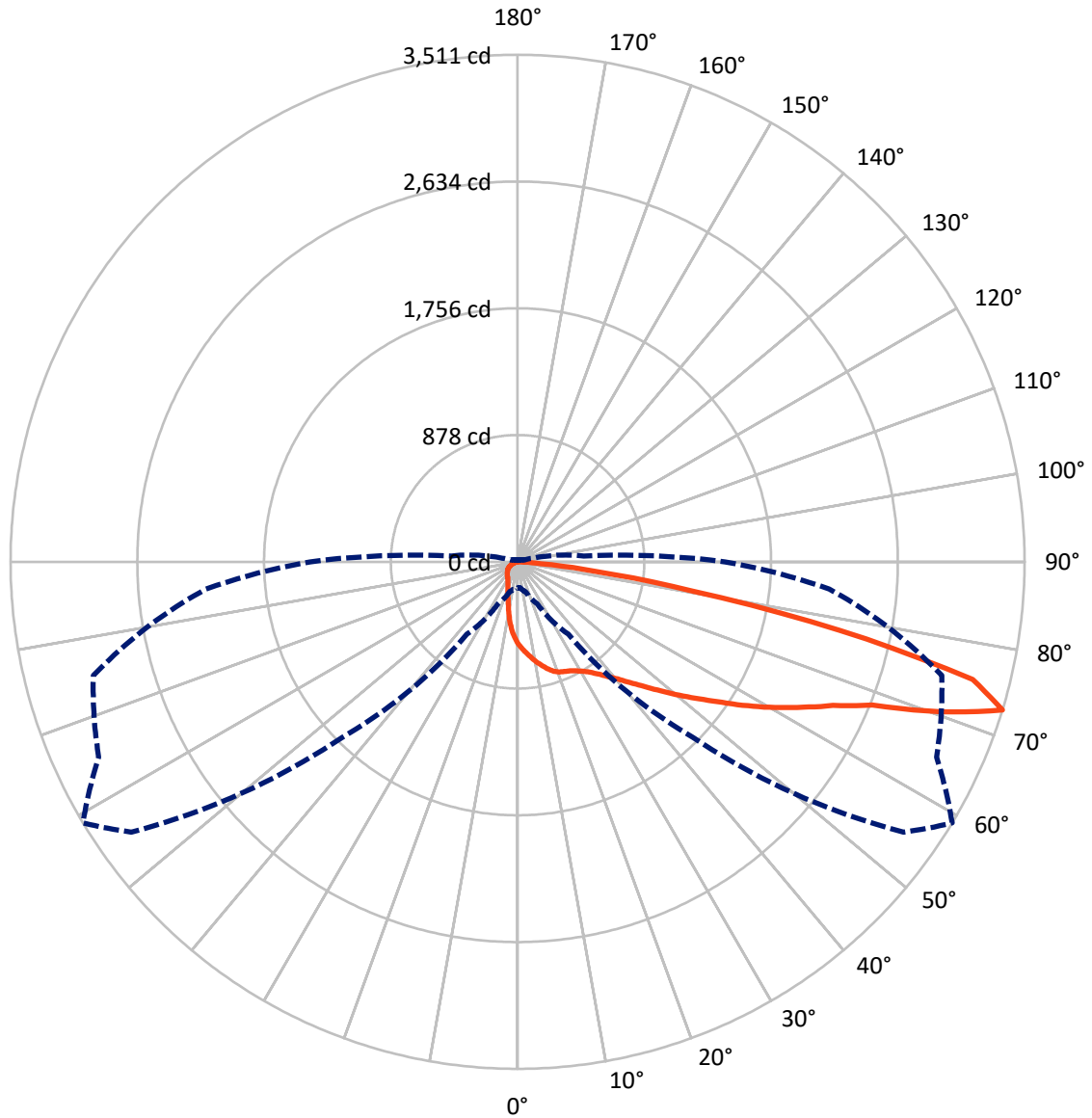
× Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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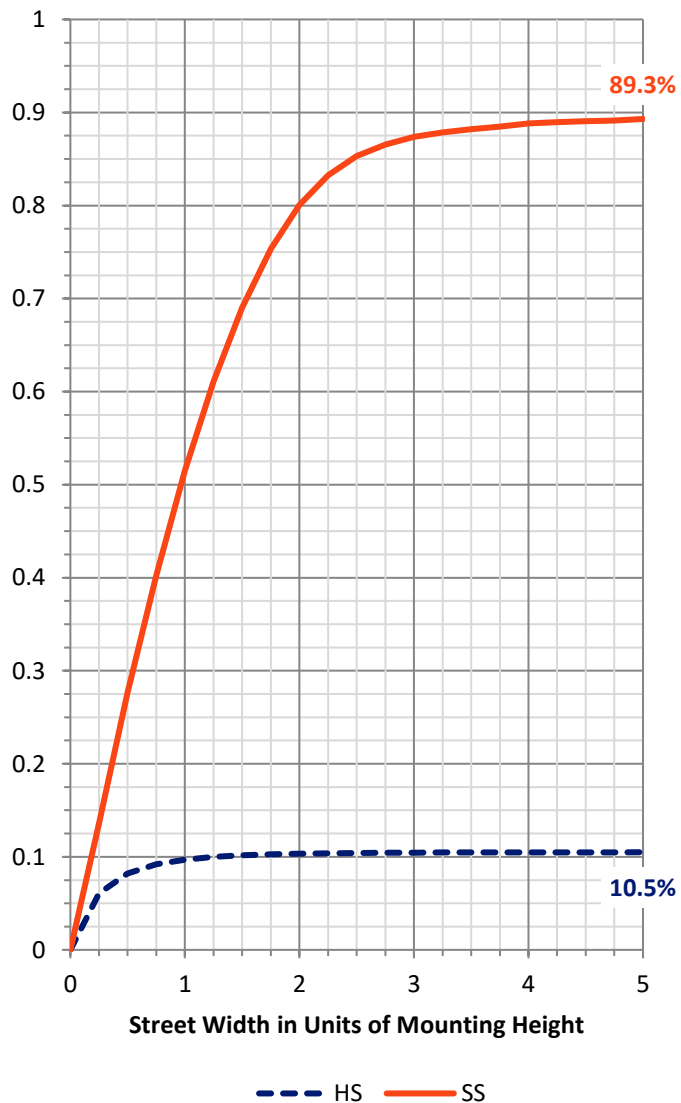
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	405.6	0.0	405.6
	% Fixture	10.6	0.0	10.6
Street Side	Lumens	3435.0	0.0	3435.0
	% Fixture	89.4	0.0	89.4
Total	Lumens	3840.7	0.0	3840.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	51.4	1.3
10°-20°	136.5	3.6
20°-30°	216.3	5.6
30°-40°	347.1	9.0
40°-50°	554.4	14.4
50°-60°	802.7	20.9
60°-70°	952.7	24.8
70°-80°	707.2	18.4
80°-90°	72.3	1.9
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°	3840.7	100.0
0°-180°	3840.7	100.0

Coefficient of Utilization



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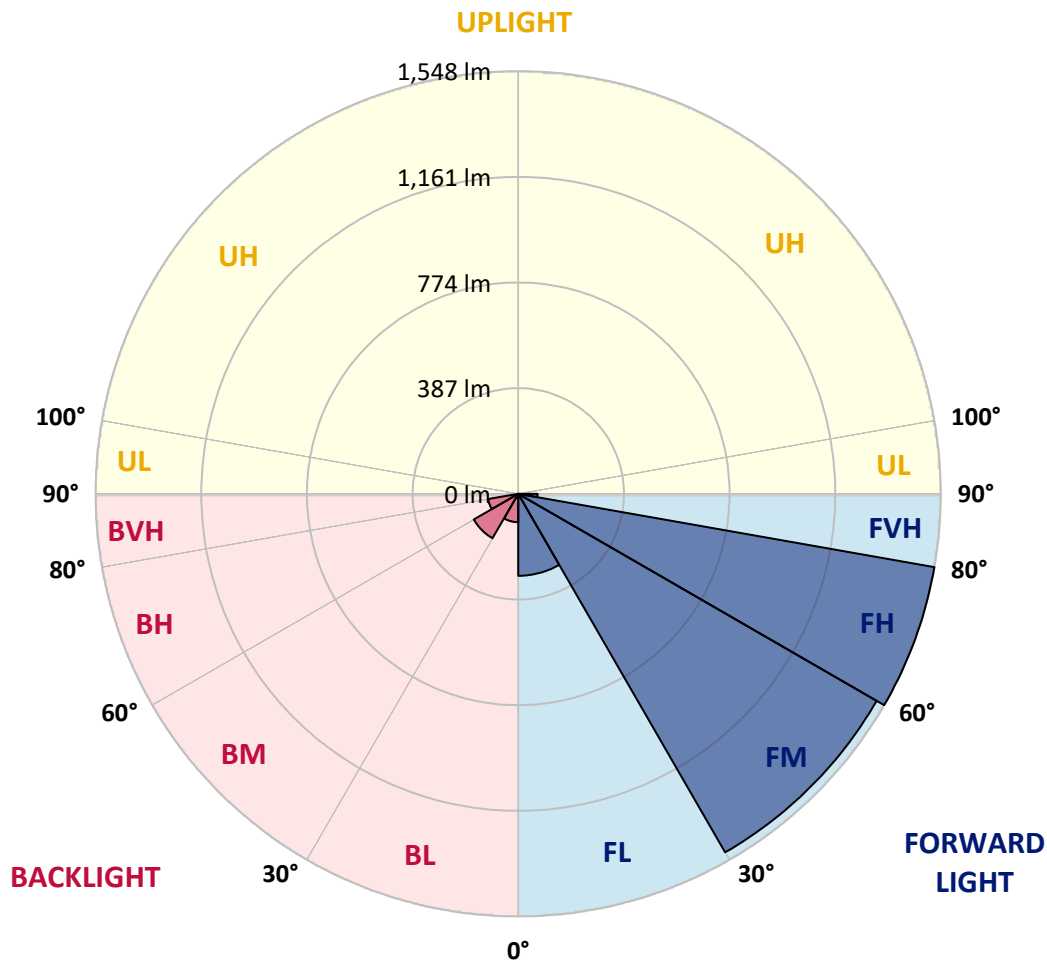
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	300.3	7.8			
FM (30°-60°)	1516.2	39.5			
FH (60°-80°)	1548.0	40.3			G1/1800
FVH (80°-90°)	70.5	1.8			G1/100
BL (0°-30°)	103.9	2.7	B0/110		
BM (30°-60°)	188.1	4.9	B0/220		
BH (60°-80°)	111.9	2.9	B1/500		G1/500
BVH (80°-90°)	1.8	0.0			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 III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	568.0	568.0	568.0	568.0	568.0	568.0	568.0	568.0	568.0	568.0	568.0
2.5°	630.2	626.6	627.1	621.2	616.8	612.3	603.5	602.3	596.0	585.0	573.7
5°	685.0	682.8	680.8	674.0	665.2	654.2	639.4	634.2	622.6	603.5	581.5
7.5°	725.2	722.4	723.4	716.7	709.6	697.3	677.0	667.3	651.9	622.9	589.5
10°	733.0	731.4	738.0	740.5	740.5	732.7	712.9	703.0	680.8	643.7	597.8
12.5°	689.3	689.5	705.8	725.4	751.0	758.3	745.0	734.4	712.4	665.7	608.3
15°	638.4	638.7	654.5	679.6	721.4	763.3	773.8	767.0	744.3	689.5	620.6
17.5°	607.8	606.6	617.0	637.7	681.5	740.5	791.4	795.9	777.4	715.9	634.2
20°	603.5	601.3	606.8	617.0	648.4	711.9	793.3	814.7	811.4	745.7	649.6
22.5°	629.7	626.1	623.1	623.6	636.9	688.1	788.3	825.2	846.5	781.6	671.0
25°	681.3	675.8	665.9	653.4	650.7	683.1	784.8	836.7	879.1	827.5	699.0
27.5°	744.5	736.7	717.9	699.0	683.1	697.1	792.1	855.1	915.9	880.9	731.6
30°	814.0	804.4	785.6	750.0	724.4	728.5	809.4	879.1	963.1	941.3	772.5
32.5°	915.9	893.9	861.1	806.7	772.8	762.3	835.5	909.7	1021.5	1021.8	831.7
35°	1003.5	991.2	958.1	890.4	820.9	807.2	869.8	952.8	1102.5	1128.3	914.5
37.5°	1060.9	1044.1	1015.1	964.1	895.6	853.3	915.7	1005.7	1188.3	1249.7	1016.5
40°	1125.1	1108.5	1069.9	1022.0	982.5	932.5	973.6	1066.7	1282.3	1374.3	1133.1
42.5°	1202.6	1181.0	1135.4	1083.7	1042.3	1036.9	1049.4	1142.7	1378.8	1509.7	1254.5
45°	1293.7	1273.3	1220.9	1155.7	1119.3	1109.6	1144.6	1231.1	1486.5	1658.2	1377.1
47.5°	1378.8	1355.3	1298.9	1239.4	1199.0	1168.2	1246.0	1335.8	1608.3	1813.4	1492.9
50°	1451.3	1427.2	1375.7	1312.2	1284.8	1244.5	1345.5	1452.3	1729.2	1971.2	1598.8
52.5°	1501.0	1479.7	1419.0	1375.9	1357.3	1337.0	1462.2	1575.9	1849.5	2115.6	1703.3
55°	1489.7	1470.7	1417.3	1414.2	1413.0	1434.3	1601.6	1716.2	1972.1	2252.2	1807.4
57.5°	1453.9	1432.2	1365.6	1411.4	1455.8	1521.0	1752.4	1881.9	2106.6	2381.1	1907.7
60°	1348.3	1340.7	1300.1	1406.2	1473.8	1606.1	1925.0	2048.4	2251.9	2494.4	1996.7
62.5°	1124.8	1131.4	1131.1	1417.3	1506.5	1702.8	2081.7	2216.9	2394.1	2603.5	2075.9
65°	842.2	864.8	893.7	1317.9	1550.1	1875.5	2269.0	2399.6	2538.6	2730.4	2156.4
67.5°	565.9	583.9	603.5	1081.3	1420.2	2057.2	2580.2	2650.1	2711.6	2871.0	2246.9
70°	324.0	329.7	357.1	675.3	1094.8	2007.0	3087.0	3112.3	2969.6	3044.4	2312.9
72.5°	181.5	179.6	215.7	320.4	611.8	1718.6	3264.5	3511.4	3200.6	3041.6	2165.7
75°	121.4	121.6	148.4	202.1	238.4	1203.0	2813.1	3255.9	3062.1	2697.1	1769.6
77.5°	82.7	85.5	109.1	156.2	110.3	587.0	1861.1	2280.8	2479.2	2082.7	1221.6
80°	35.9	36.1	72.0	112.1	74.5	186.9	964.8	1221.9	1554.9	1169.5	483.9
82.5°	18.6	21.0	45.9	72.5	46.8	65.4	455.8	533.8	652.4	343.3	99.3
85°	6.6	7.8	28.3	35.6	23.6	23.4	158.8	161.7	138.2	51.7	27.4
87.5°	0.0	1.2	11.1	8.8	3.0	2.8	18.8	15.8	12.5	7.3	9.0
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°	568.0	568.0	568.0	568.0	568.0	568.0	568.0	568.0	568.0	568.0	568.0
2.5°	568.5	561.7	550.6	537.1	521.3	512.8	500.5	492.9	486.2	486.5	492.0
5°	569.2	557.9	529.8	500.0	466.9	442.6	415.5	396.5	381.9	378.4	383.7
7.5°	571.4	552.4	506.6	456.8	401.7	360.8	323.5	299.9	286.6	283.1	286.6
10°	574.5	546.4	480.2	404.2	335.8	286.6	255.5	240.5	234.4	229.9	232.7
12.5°	577.0	540.1	447.1	349.8	277.1	238.7	215.1	202.6	197.3	194.0	195.9
15°	581.3	531.9	411.2	299.1	237.5	206.1	183.8	174.6	173.0	173.5	174.2
17.5°	585.5	523.8	371.2	259.5	208.4	177.5	164.0	162.5	164.5	166.5	167.3
20°	590.3	512.3	330.5	229.7	181.5	157.7	154.2	155.2	156.2	159.7	160.7
22.5°	597.3	497.7	294.9	204.4	159.2	148.2	146.5	147.2	147.9	151.5	152.4
25°	607.3	482.2	266.1	181.0	145.1	140.4	138.7	138.7	139.7	142.9	144.2
27.5°	617.9	460.1	242.7	159.5	136.9	131.9	128.8	128.8	130.2	133.9	135.4
30°	629.7	440.0	224.4	143.4	129.9	123.4	119.3	118.4	119.8	124.6	125.9
32.5°	651.0	427.0	211.4	135.9	123.6	115.6	110.1	107.3	108.9	114.4	115.8
35°	683.3	424.0	202.3	132.1	117.6	108.5	100.8	96.6	97.8	103.5	105.3
37.5°	721.2	430.3	193.6	127.1	111.8	101.8	91.5	86.0	88.0	93.3	94.8
40°	775.5	456.3	186.9	123.4	106.1	93.8	82.2	76.8	79.9	84.5	85.3
42.5°	841.2	502.8	185.0	119.8	99.0	85.3	73.7	69.7	72.3	76.5	77.2
45°	922.7	561.9	193.1	115.3	91.2	77.0	66.9	64.7	65.4	69.7	71.8
47.5°	1010.2	622.6	215.1	111.3	84.5	70.2	61.7	59.7	59.1	63.1	65.7
50°	1098.8	676.5	241.2	108.3	79.7	64.7	57.7	55.1	53.9	56.4	57.4
52.5°	1186.3	719.3	258.3	103.3	74.9	59.1	54.1	50.4	48.2	49.4	50.4
55°	1275.1	757.0	259.2	95.7	70.4	55.7	50.6	46.4	43.7	43.7	44.2
57.5°	1358.0	790.1	244.5	85.8	64.2	52.4	45.9	42.3	39.4	38.3	38.6
60°	1431.5	814.7	219.9	74.5	58.6	48.2	41.1	38.3	34.6	32.6	32.1
62.5°	1497.0	826.8	186.3	62.9	51.9	43.2	36.6	33.6	28.6	26.0	25.8
65°	1552.4	814.5	151.2	52.2	46.1	37.6	31.4	28.3	22.9	19.8	19.8
67.5°	1607.3	758.3	114.4	43.9	40.1	31.6	25.8	23.1	19.1	16.5	16.5
70°	1614.3	640.1	79.9	36.9	33.3	24.3	20.8	19.1	15.6	13.3	13.0
72.5°	1437.0	460.6	48.7	30.1	26.0	17.3	16.5	15.1	11.6	10.0	9.7
75°	1148.7	282.4	28.6	22.5	17.3	12.3	12.3	10.8	7.8	6.6	6.6
77.5°	793.9	147.7	16.8	14.6	10.2	7.3	8.0	6.6	3.8	3.0	3.0
80°	318.0	56.2	9.0	6.8	4.7	3.3	2.8	1.5	0.7	0.5	0.7
82.5°	63.4	14.8	3.0	1.7	1.7	0.7	0.0	0.0	0.0	0.0	0.0
85°	16.3	3.3	0.7	0.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	5.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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)