

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: P961313

Luminaire Tested: **NAV-SB2A-722-U-T2R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P961313
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-4)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB2A-722-U-T2R-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 2200K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6430.8 lumens
Efficiency: N/A
Efficacy: 112.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G1

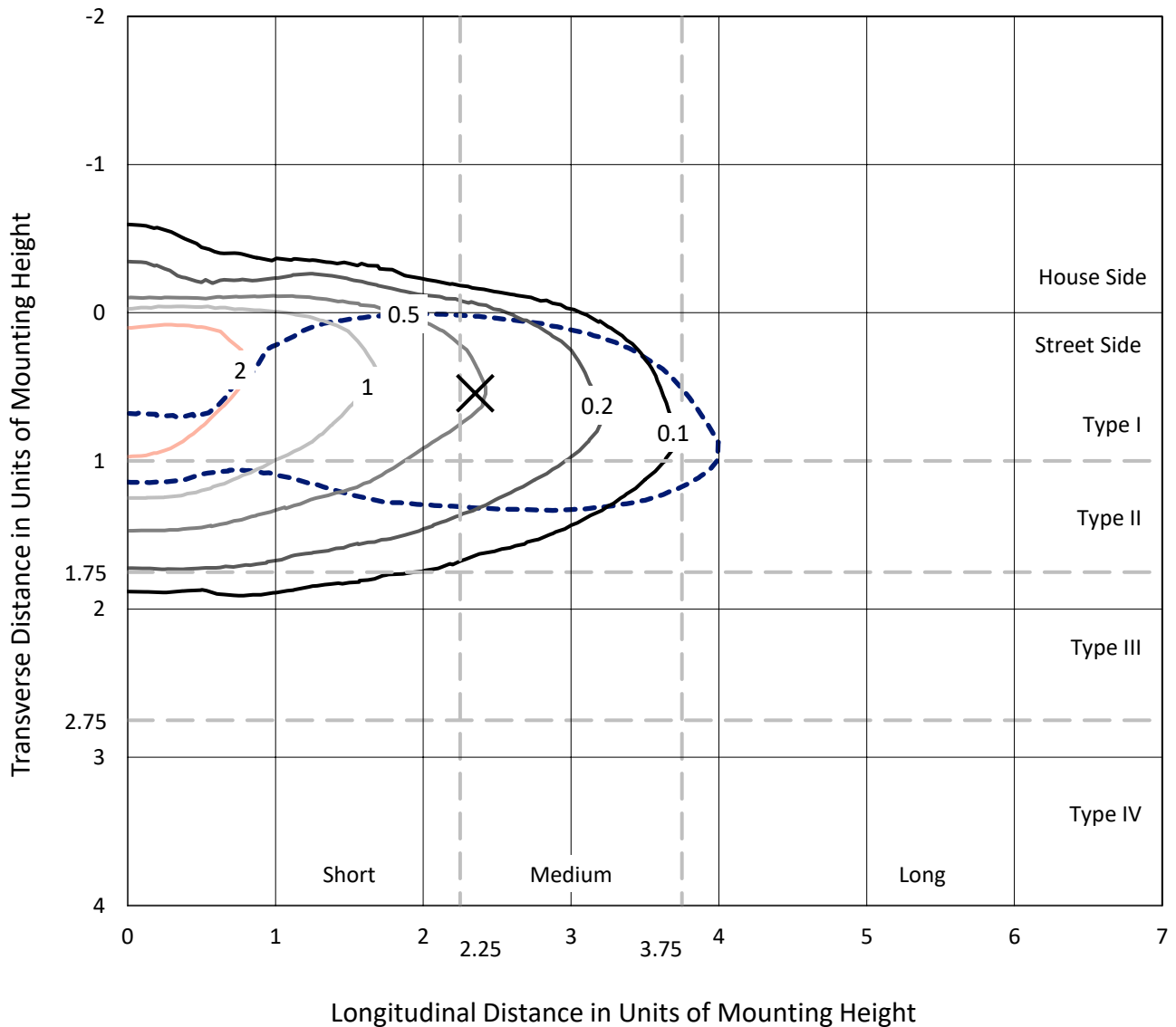
Input Watts (W): 57.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

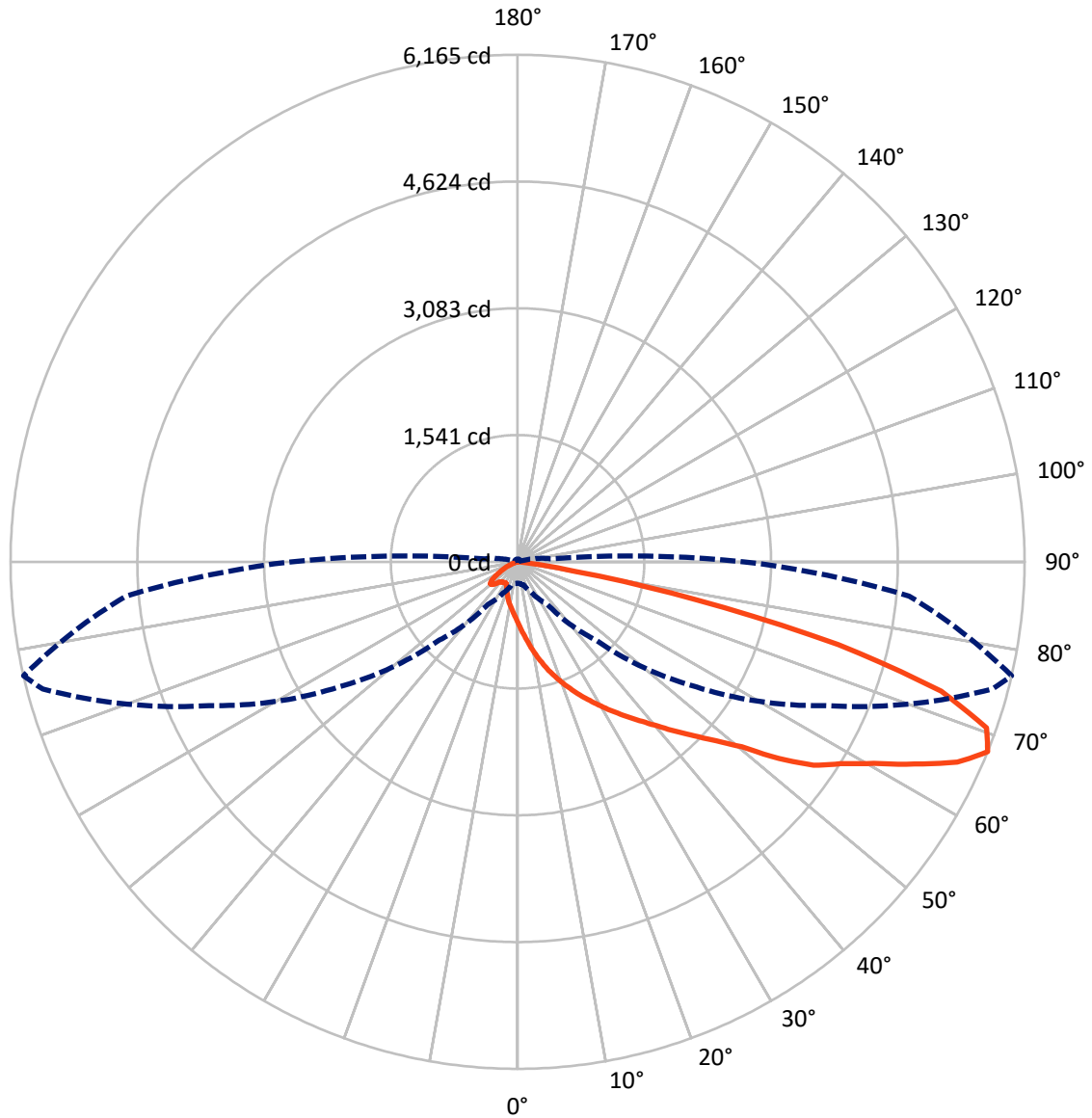
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.8 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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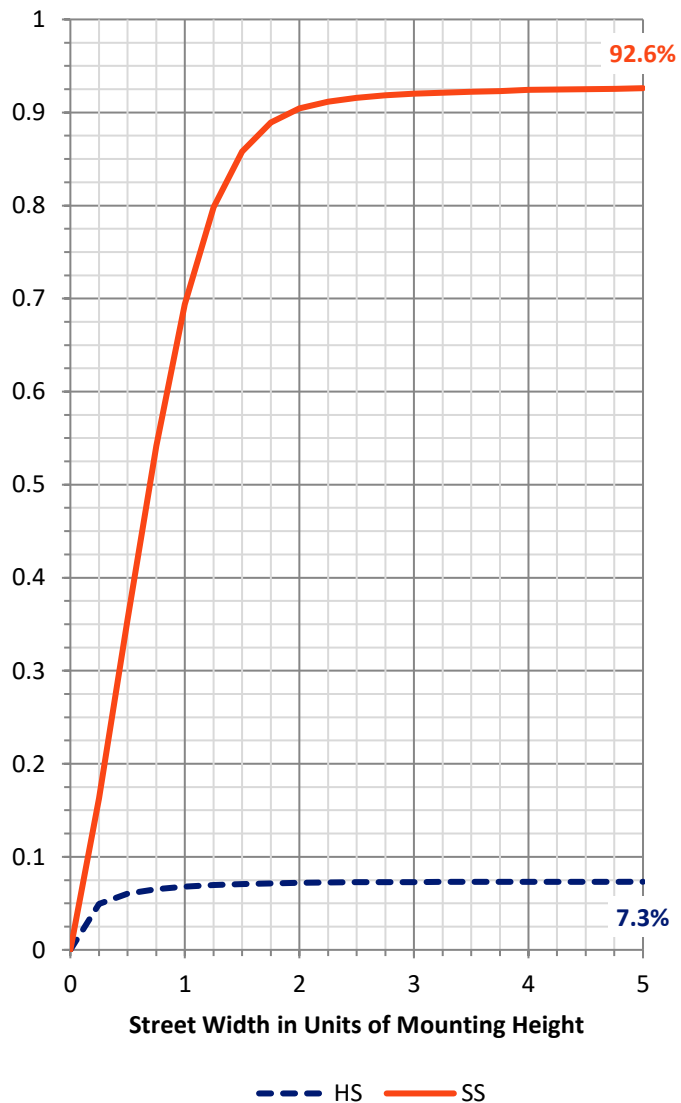
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	473.1	0.0	473.1
	% Fixture	7.4	0.0	7.4
Street Side	Lumens	5957.7	0.0	5957.7
	% Fixture	92.6	0.0	92.6
Total	Lumens	6430.8	0.0	6430.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	75.7	1.2
10°-20°	265.1	4.1
20°-30°	511.5	8.0
30°-40°	888.0	13.8
40°-50°	1289.3	20.0
50°-60°	1480.6	23.0
60°-70°	1285.4	20.0
70°-80°	605.4	9.4
80°-90°	29.9	0.5
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°	6430.8	100.0
0°-180°	6430.8	100.0

Coefficient of Utilization

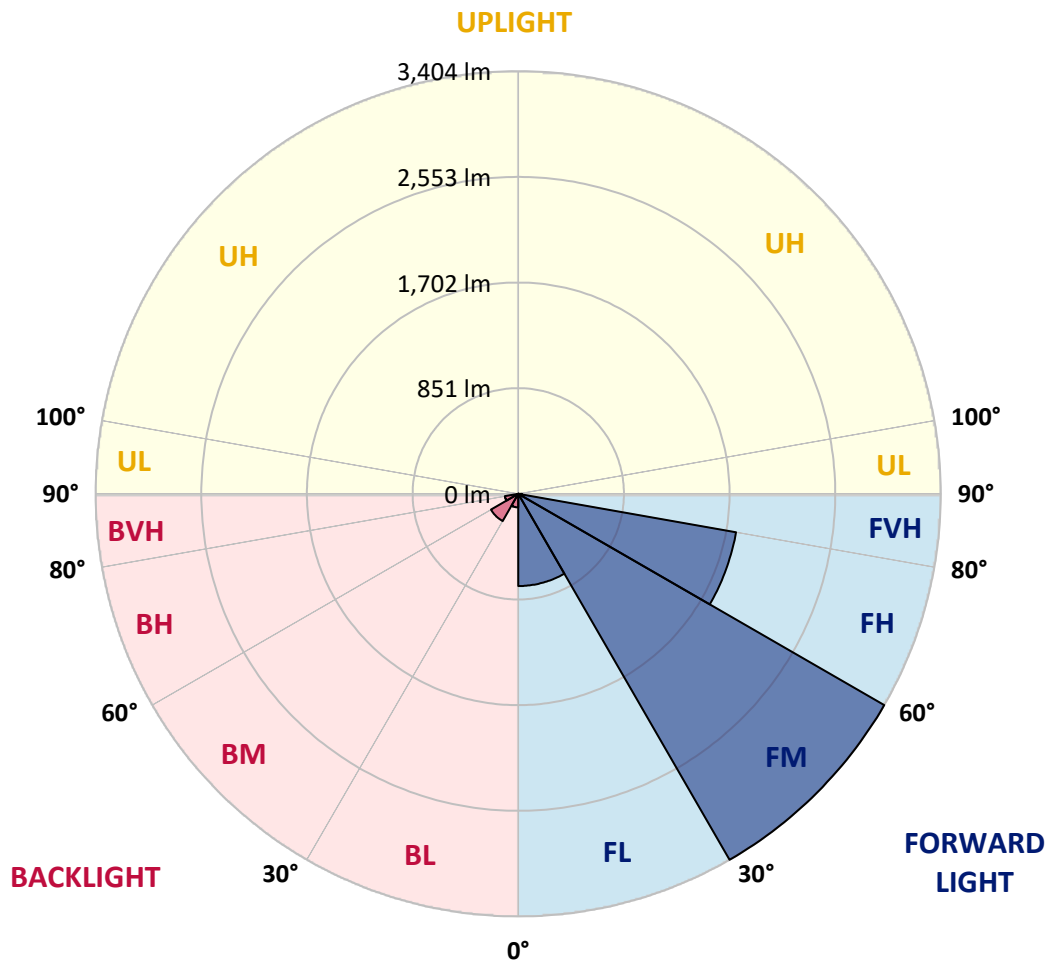


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	742.7	11.5			
FM (30°-60°)	3404.3	52.9			
FH (60°-80°)	1781.3	27.7			G1/1800
FVH (80°-90°)	29.4	0.5			G1/100
BL (0°-30°)	109.5	1.7	B0/110		
BM (30°-60°)	253.5	3.9	B1/1000		
BH (60°-80°)	109.5	1.7	B0/110		G0/110
BVH (80°-90°)	0.6	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 II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	741.6	741.6	741.6	741.6	741.6	741.6	741.6	741.6	741.6	741.6	741.6
2.5°	1026.7	1033.1	1023.9	1006.3	980.0	962.8	920.9	881.3	837.4	823.5	779.5
5°	1251.5	1257.2	1246.7	1227.5	1192.4	1158.9	1103.8	1021.1	935.2	907.7	829.8
7.5°	1418.1	1421.3	1417.3	1399.6	1366.1	1328.2	1266.7	1168.9	1041.5	1011.2	891.7
10°	1537.8	1548.3	1547.0	1540.3	1517.9	1487.2	1421.7	1310.3	1160.5	1121.4	961.7
12.5°	1617.3	1628.9	1635.7	1650.9	1649.6	1630.1	1572.6	1454.8	1279.1	1233.2	1040.3
15°	1640.5	1652.8	1678.8	1714.0	1745.1	1755.1	1714.7	1596.5	1409.7	1350.9	1120.9
17.5°	1627.3	1646.5	1677.6	1733.2	1801.4	1846.5	1842.1	1733.5	1528.3	1461.1	1200.0
20°	1656.5	1674.8	1699.1	1745.9	1825.4	1907.2	1940.0	1864.5	1646.0	1575.8	1283.1
22.5°	1817.8	1814.6	1817.0	1824.6	1872.1	1953.1	2020.7	1983.5	1762.7	1690.8	1370.9
25°	2073.4	2059.0	2034.6	1993.5	1981.5	2020.7	2090.9	2089.0	1885.7	1808.6	1460.8
27.5°	2366.5	2364.1	2307.0	2208.0	2152.0	2136.8	2170.4	2191.6	2007.5	1925.3	1551.0
30°	2647.2	2653.6	2576.5	2466.4	2363.6	2304.2	2273.9	2289.0	2131.3	2051.0	1644.1
32.5°	2891.6	2898.4	2814.5	2685.5	2558.6	2486.6	2422.8	2385.3	2266.3	2178.7	1746.3
35°	3098.1	3104.8	3008.6	2866.0	2730.7	2665.6	2593.4	2490.6	2402.0	2320.6	1860.1
37.5°	3282.6	3280.6	3151.6	3007.9	2874.8	2823.4	2785.3	2620.4	2541.8	2463.1	1986.3
40°	3391.6	3399.9	3289.7	3131.2	3002.2	2964.7	2962.2	2781.4	2703.1	2626.9	2124.5
42.5°	3423.5	3438.3	3358.4	3228.2	3111.3	3070.5	3133.2	2955.5	2890.8	2816.5	2280.6
45°	3366.0	3380.4	3344.1	3253.8	3185.5	3159.2	3280.2	3136.0	3091.3	3017.8	2456.7
47.5°	3198.3	3216.2	3225.1	3205.9	3205.1	3231.8	3411.9	3326.1	3329.3	3254.2	2660.8
50°	2873.7	2904.0	2984.7	3052.6	3157.6	3289.3	3540.1	3532.2	3597.6	3533.0	2926.8
52.5°	2283.4	2326.5	2604.5	2790.2	3026.2	3278.6	3681.1	3862.8	4068.4	3973.8	3301.7
55°	1835.0	1835.0	2061.0	2408.4	2769.9	3207.5	3742.6	4077.7	4389.2	4366.8	3565.7
57.5°	1495.9	1513.9	1658.0	1965.1	2398.8	3038.2	3780.5	4212.6	4647.5	4631.2	3823.7
60°	923.3	962.0	1234.3	1537.5	1976.7	2736.6	3756.6	4349.2	4961.0	4974.1	4134.3
62.5°	520.0	534.3	655.7	1106.2	1537.1	2331.4	3573.3	4425.4	5361.9	5417.8	4454.6
65°	359.0	366.2	412.9	688.5	1065.4	1856.2	3215.1	4378.0	5763.7	5876.6	4726.2
67.5°	260.8	264.3	293.6	420.5	632.1	1345.7	2653.6	4138.3	5976.5	6165.4	4778.0
70°	200.5	202.8	224.1	276.3	373.4	830.7	1927.2	3661.9	5822.3	6048.0	4512.2
72.5°	163.0	165.3	181.7	204.5	247.6	491.2	1168.1	2973.8	5141.9	5385.5	3841.2
75°	137.4	140.5	155.4	170.1	194.0	315.5	547.9	2071.0	3866.8	4026.5	2671.1
77.5°	76.3	70.3	126.2	140.9	163.7	199.7	256.4	1218.8	2165.6	2209.9	1185.2
80°	47.6	49.1	100.2	113.4	125.8	100.7	117.4	469.2	750.7	713.2	229.6
82.5°	2.8	6.4	77.1	81.9	86.3	43.2	44.3	159.3	180.9	166.2	40.7
85°	0.0	0.0	35.2	28.4	29.9	12.4	12.8	37.1	24.4	26.3	8.0
87.5°	0.0	0.0	0.0	0.8	0.0	1.2	2.4	3.2	1.2	1.6	2.8
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°	741.6	741.6	741.6	741.6	741.6	741.6	741.6	741.6	741.6	741.6	741.6
2.5°	751.5	723.6	666.9	611.4	566.3	524.3	494.4	466.1	451.6	450.9	450.1
5°	774.3	715.7	602.2	501.9	421.3	356.6	314.7	284.7	269.6	264.3	263.5
7.5°	806.3	718.0	545.5	406.1	311.1	255.5	231.6	222.0	218.8	215.2	214.4
10°	846.5	723.6	494.8	327.1	245.2	217.2	207.7	203.7	201.3	198.8	198.0
12.5°	891.7	728.8	444.4	271.5	215.7	201.3	194.4	189.7	186.4	183.7	182.9
15°	935.6	732.0	392.2	232.8	200.5	188.9	181.7	176.5	172.1	168.9	168.5
17.5°	979.2	736.4	343.1	209.6	188.1	176.5	169.3	163.0	159.3	155.7	155.4
20°	1027.5	735.5	296.7	193.3	175.7	164.1	156.5	150.6	147.0	143.0	142.6
22.5°	1072.3	731.5	255.9	179.3	163.0	151.7	143.4	137.4	133.8	130.6	130.2
25°	1123.7	728.4	222.0	166.6	151.0	139.8	130.6	124.9	121.0	118.2	117.8
27.5°	1173.2	723.6	197.3	155.0	139.4	128.6	119.8	113.4	109.8	107.8	107.8
30°	1222.0	722.4	188.1	143.8	128.9	118.2	109.4	103.4	100.7	99.8	99.4
32.5°	1280.6	725.6	192.1	139.8	119.4	108.6	100.2	95.8	93.1	93.1	93.1
35°	1343.4	724.8	198.0	143.4	113.1	99.0	92.7	89.9	87.0	87.0	87.0
37.5°	1422.1	726.0	202.8	149.3	110.6	91.0	87.4	83.8	82.3	82.3	82.3
40°	1539.4	765.6	200.5	154.6	109.8	85.5	78.3	77.1	75.8	75.8	75.8
42.5°	1683.3	851.4	203.7	155.0	109.4	81.5	71.9	74.3	71.4	71.0	70.7
45°	1840.6	945.3	224.1	146.6	109.1	79.4	68.7	71.4	67.1	67.1	67.1
47.5°	1996.7	1038.3	244.8	134.6	107.8	79.0	65.9	64.3	63.1	63.4	63.4
50°	2212.0	1114.2	252.8	118.2	105.1	78.3	60.7	61.1	60.3	61.1	61.1
52.5°	2446.4	1130.2	243.2	99.8	97.1	75.8	57.1	58.7	58.3	59.1	59.1
55°	2592.5	1112.9	200.9	83.0	84.7	66.3	53.5	56.7	56.7	56.7	56.7
57.5°	2743.4	1039.9	142.6	67.4	70.3	54.3	50.3	54.7	54.3	53.9	53.9
60°	2852.1	921.7	93.9	55.6	55.9	44.7	46.7	51.6	51.1	49.1	49.1
62.5°	2933.1	791.1	60.3	47.2	42.7	40.3	42.7	46.7	45.1	40.7	40.0
65°	2923.9	610.2	46.3	40.3	35.2	35.2	37.1	40.7	36.0	28.8	28.0
67.5°	2753.5	412.9	38.3	33.9	29.5	29.1	30.7	33.9	30.7	24.4	23.6
70°	2448.7	270.0	30.7	26.3	23.6	21.5	24.8	29.1	25.9	19.6	18.8
72.5°	1987.5	164.5	23.2	19.2	17.2	13.9	19.6	24.0	20.8	14.3	13.5
75°	1285.9	83.8	16.0	12.4	9.2	8.4	14.3	17.9	14.3	8.8	7.6
77.5°	492.0	35.2	8.8	5.6	4.8	4.0	8.0	10.8	5.9	1.9	1.6
80°	94.6	14.8	4.4	2.8	2.4	1.6	1.2	0.8	0.0	0.0	0.0
82.5°	16.4	4.8	1.6	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	5.6	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.9	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)