

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: P960791

Luminaire Tested: **NAV-SB1D-722-U-T3-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P960791
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-6)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB1D-722-U-T3-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 2200K, 900mA LIGHTSQUARE WITH 26 LEDS AND TYPE III OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6759.9 lumens
Efficiency: N/A
Efficacy: 84.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

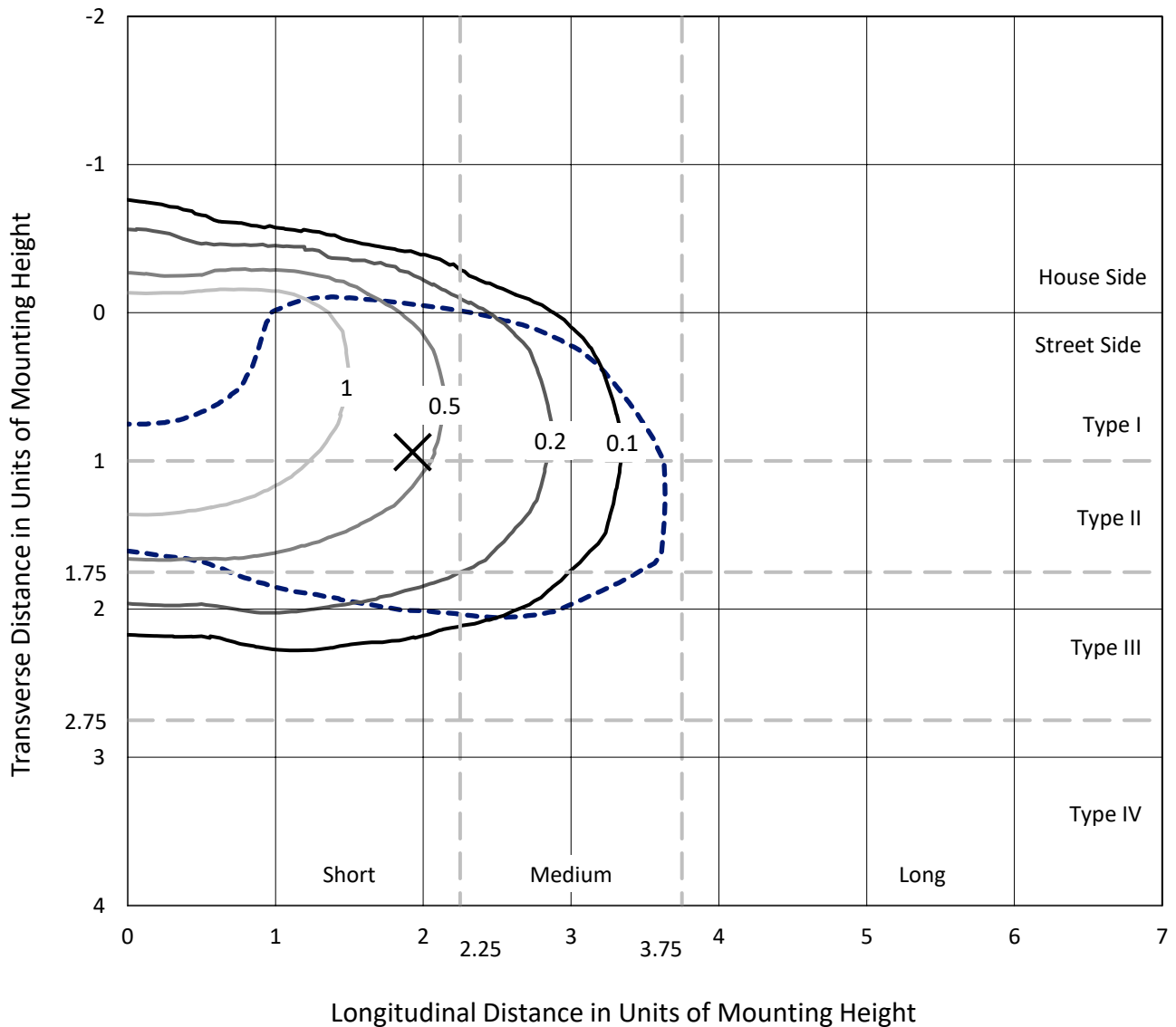
Input Watts (W): 79.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

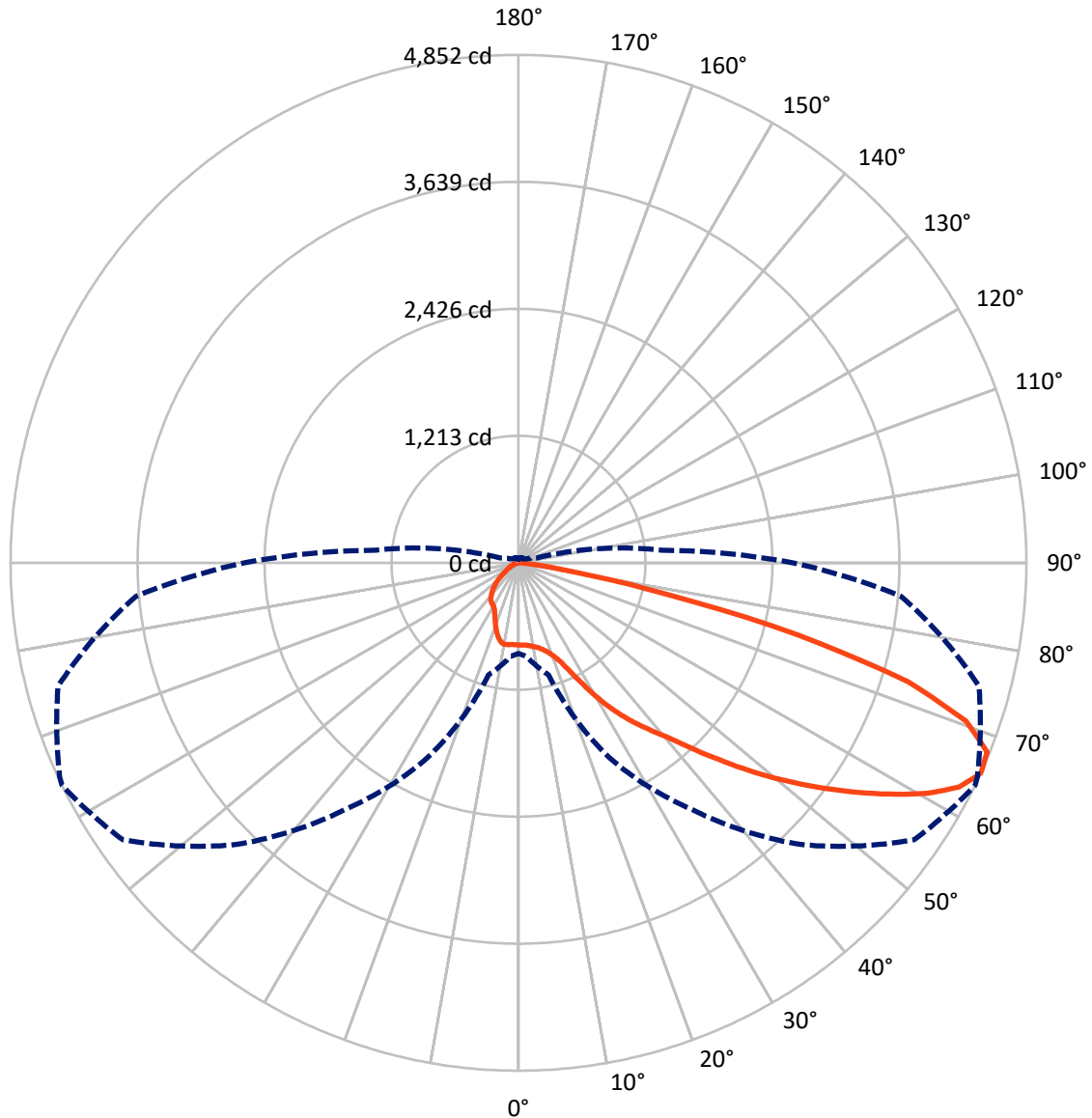
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 64-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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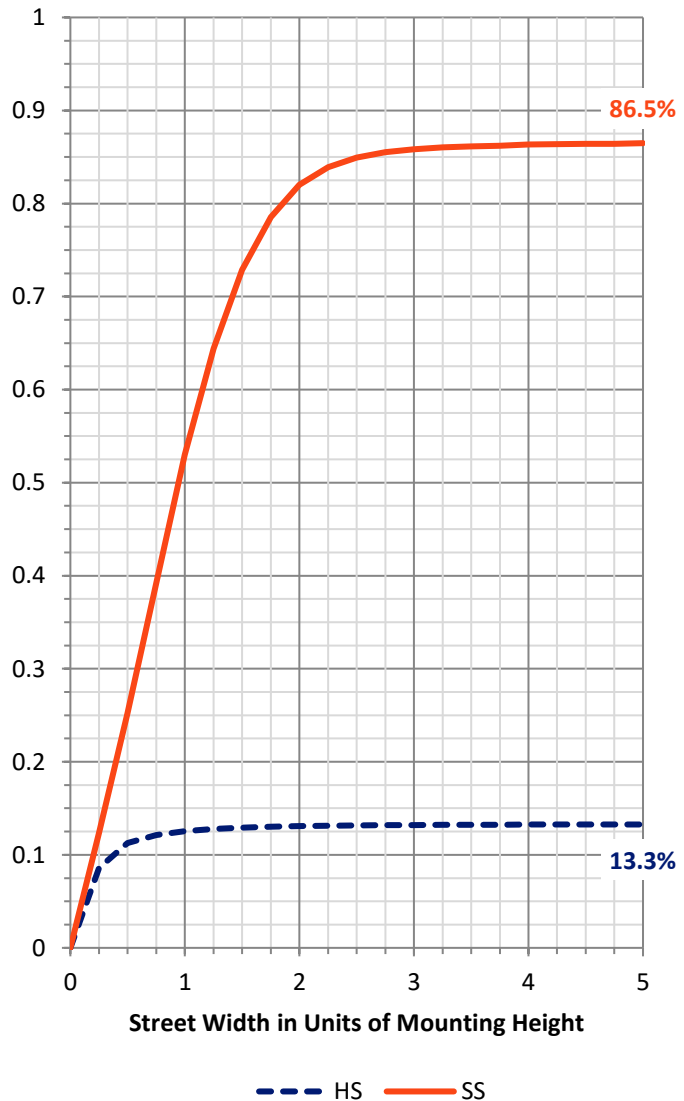
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	904.0	0.0	904.0
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	5855.9	0.0	5855.9
	% Fixture	86.6	0.0	86.6
Total	Lumens	6759.9	0.0	6759.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	72.5	1.1
10°-20°	196.7	2.9
20°-30°	372.8	5.5
30°-40°	754.4	11.2
40°-50°	1285.1	19.0
50°-60°	1747.7	25.9
60°-70°	1641.2	24.3
70°-80°	657.5	9.7
80°-90°	31.9	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°	6759.9	100.0
0°-180°	6759.9	100.0

Coefficient of Utilization



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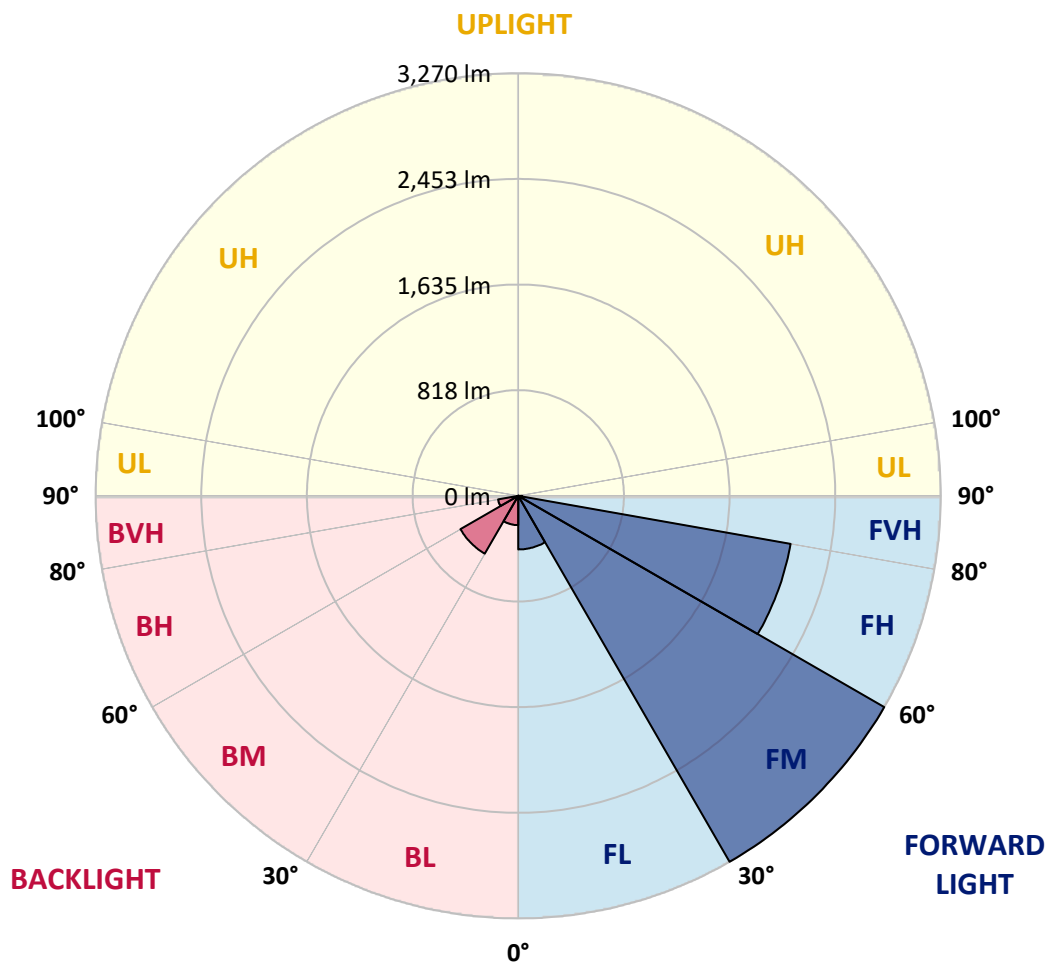
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	415.1	6.1			
FM (30°-60°)	3270.4	48.4			
FH (60°-80°)	2140.0	31.7			G2/5000
FVH (80°-90°)	30.3	0.4			G1/100
BL (0°-30°)	227.0	3.4	B1/500		
BM (30°-60°)	516.8	7.6	B1/1000		
BH (60°-80°)	158.7	2.3	B1/500		G1/500
BVH (80°-90°)	1.6	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-G2

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	786.3	786.3	786.3	786.3	786.3	786.3	786.3	786.3	786.3	786.3	786.3
2.5°	783.5	788.9	787.6	786.3	785.8	786.7	787.2	786.7	786.7	786.7	787.2
5°	768.5	773.1	773.1	776.2	780.8	786.3	790.3	791.2	792.1	793.5	793.0
7.5°	740.0	743.6	746.4	756.8	768.1	782.6	794.9	801.2	802.1	807.1	808.9
10°	720.6	725.1	729.6	740.5	756.8	778.6	799.4	814.8	817.0	828.8	834.2
12.5°	719.7	724.2	730.0	741.8	760.9	784.0	809.3	831.6	835.7	852.9	864.2
15°	729.2	734.6	740.0	754.5	774.9	803.0	830.2	857.8	861.9	886.4	898.6
17.5°	748.7	755.8	759.9	774.5	796.2	827.5	863.3	895.0	898.6	927.2	942.6
20°	787.2	795.8	797.1	808.9	830.2	863.8	906.3	945.8	950.3	982.9	1000.1
22.5°	866.9	879.1	868.3	874.1	893.2	926.7	972.9	1022.8	1029.1	1066.3	1081.7
25°	1007.4	1024.6	996.5	986.6	994.7	1029.6	1087.6	1150.6	1157.8	1187.8	1195.5
27.5°	1283.4	1261.2	1218.5	1176.9	1152.4	1172.3	1237.6	1315.6	1324.6	1353.6	1344.6
30°	1586.5	1567.0	1509.5	1417.1	1359.0	1355.9	1416.1	1503.2	1513.6	1541.2	1513.6
32.5°	1890.2	1871.5	1809.0	1695.2	1594.7	1544.9	1586.5	1683.0	1688.5	1706.2	1665.4
35°	2188.8	2169.7	2107.2	1990.8	1867.0	1753.8	1745.6	1854.3	1856.2	1874.7	1814.0
37.5°	2489.2	2473.4	2406.8	2292.6	2170.6	2014.3	1938.7	2016.6	2018.8	2037.0	1973.9
40°	2703.5	2710.4	2664.6	2576.2	2471.6	2300.7	2155.3	2189.3	2175.7	2206.0	2168.4
42.5°	2887.5	2901.2	2861.3	2816.9	2756.1	2605.8	2423.5	2417.7	2395.9	2412.2	2373.2
45°	3046.6	3058.0	3022.2	3011.8	3010.4	2904.7	2716.8	2681.4	2651.1	2647.9	2601.1
47.5°	3105.1	3126.9	3142.2	3177.2	3245.1	3200.7	3019.9	2965.0	2931.1	2906.2	2832.3
50°	3127.3	3150.4	3203.0	3304.5	3465.3	3484.4	3321.7	3260.1	3218.4	3173.1	3064.3
52.5°	3097.3	3138.7	3209.3	3380.1	3613.5	3711.9	3611.3	3557.4	3509.8	3435.9	3274.6
55°	2921.1	2962.4	3106.9	3379.2	3687.4	3871.4	3885.0	3861.0	3807.5	3691.0	3444.5
57.5°	2549.5	2610.7	2839.6	3264.1	3686.1	4008.7	4153.3	4170.5	4110.7	3943.9	3578.2
60°	2034.7	2117.6	2396.8	3009.0	3572.3	4083.0	4388.4	4474.5	4411.1	4193.2	3686.5
62.5°	1419.7	1515.9	1780.0	2609.3	3312.2	4029.6	4560.2	4719.3	4671.2	4416.1	3728.2
65°	866.0	896.8	1109.8	2053.3	2869.9	3805.7	4613.2	4851.6	4835.7	4552.5	3666.5
67.5°	576.9	602.7	663.9	1407.9	2227.7	3358.4	4486.3	4828.5	4833.0	4530.3	3440.9
70°	347.6	369.8	409.7	818.9	1443.8	2658.2	4093.4	4533.9	4560.2	4233.5	3013.1
72.5°	143.2	158.2	194.4	371.2	747.7	1687.2	3259.6	3892.7	3953.8	3559.6	2312.5
75°	81.1	88.9	114.2	186.2	324.5	786.3	1974.5	2763.4	2853.6	2453.4	1391.2
77.5°	53.9	57.5	73.9	120.5	182.7	268.2	843.8	1439.7	1611.9	1340.0	602.3
80°	36.3	39.5	50.7	80.7	118.7	115.1	268.8	533.4	656.2	460.4	146.8
82.5°	24.5	24.9	36.3	53.0	75.2	55.8	79.3	165.8	208.5	133.2	55.8
85°	14.0	13.6	26.8	30.9	33.5	23.1	24.0	49.8	65.3	56.2	31.7
87.5°	1.8	2.8	10.5	8.2	4.5	5.0	5.0	8.6	12.7	13.6	6.8
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°	786.3	786.3	786.3	786.3	786.3	786.3	786.3	786.3	786.3	786.3	786.3
2.5°	787.2	786.7	785.4	784.0	780.8	779.0	779.9	779.0	778.6	779.0	780.8
5°	793.0	791.7	788.0	783.5	777.2	769.5	764.4	757.3	750.4	746.4	747.2
7.5°	808.9	807.5	802.6	789.9	769.5	737.3	707.9	682.0	662.6	651.2	651.7
10°	834.2	832.0	824.3	796.2	742.7	672.5	614.1	565.6	533.8	518.9	517.5
12.5°	864.2	861.5	847.9	790.3	692.0	582.3	501.6	447.7	418.3	405.1	403.7
15°	899.5	896.0	869.2	762.2	618.1	482.7	408.8	368.4	349.4	337.6	338.0
17.5°	943.5	937.2	885.0	720.1	537.9	406.5	351.7	321.3	304.5	293.2	292.3
20°	1000.6	990.1	897.7	669.7	464.0	358.4	313.1	287.7	275.1	265.1	263.3
22.5°	1080.4	1065.4	913.2	615.4	411.9	325.3	284.5	266.0	255.6	244.3	242.4
25°	1179.2	1161.4	932.1	565.1	376.2	296.8	263.7	248.4	236.1	222.9	221.6
27.5°	1317.3	1285.7	954.8	523.9	345.3	272.3	244.7	227.4	213.4	202.5	200.3
30°	1471.4	1419.3	974.8	499.0	317.2	249.7	219.8	202.5	189.4	181.7	180.4
32.5°	1617.3	1546.6	987.9	488.1	291.8	223.9	192.6	174.0	164.0	161.7	163.2
35°	1755.1	1661.7	986.6	477.6	269.2	198.0	165.8	146.8	139.1	140.5	140.5
37.5°	1913.7	1784.5	977.0	461.4	250.6	174.5	142.8	126.0	119.2	119.6	121.5
40°	2098.2	1926.4	971.1	430.5	230.2	152.7	123.7	110.1	105.2	103.3	102.9
42.5°	2294.9	2063.7	972.0	395.6	204.8	133.2	110.6	99.2	94.7	93.4	92.9
45°	2492.4	2194.7	973.4	359.4	178.1	118.3	101.1	91.5	88.9	87.0	87.0
47.5°	2678.2	2306.1	948.0	320.4	151.8	106.9	93.4	87.0	84.8	82.5	82.5
50°	2851.3	2380.5	886.8	275.1	131.0	97.9	87.4	82.9	80.7	78.4	78.4
52.5°	2985.9	2392.2	785.8	228.4	116.4	91.1	83.8	79.7	77.1	74.7	74.3
55°	3045.7	2318.4	642.2	184.9	105.2	85.2	80.3	76.2	73.0	70.7	70.2
57.5°	3030.3	2163.0	500.7	148.6	94.3	79.3	75.6	73.0	69.3	65.7	65.3
60°	2954.7	1955.0	377.5	123.7	84.3	73.0	70.7	68.5	63.4	58.0	57.1
62.5°	2823.7	1693.5	269.2	102.4	73.4	65.7	64.8	63.0	55.8	45.8	44.9
65°	2623.4	1375.9	181.2	85.2	63.0	57.5	58.0	54.8	45.3	34.0	33.1
67.5°	2330.6	1006.0	116.0	69.8	52.6	48.1	48.5	46.6	38.5	29.0	27.7
70°	1957.6	666.1	75.6	53.0	42.1	37.2	39.9	40.3	32.6	23.6	22.7
72.5°	1435.2	393.4	53.0	39.5	30.9	25.8	32.6	33.5	26.2	17.6	16.8
75°	817.9	186.8	39.9	28.6	19.1	18.1	25.4	25.4	18.1	11.8	10.9
77.5°	343.5	77.9	28.1	18.6	10.9	10.5	17.2	15.9	9.0	5.4	5.4
80°	99.2	34.8	15.0	9.0	4.5	4.1	6.8	5.0	2.3	0.9	0.9
82.5°	38.9	15.4	5.8	3.6	1.8	1.8	0.9	0.0	0.0	0.0	0.0
85°	23.1	6.4	2.8	1.3	0.4	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	5.8	1.3	0.9	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)