

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: P961842

Luminaire Tested: **NAV-SB2B-722-U-T2U-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P961842
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-17)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB2B-722-U-T2U-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 2200K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7286.7 lumens
Efficiency: N/A
Efficacy: 98.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

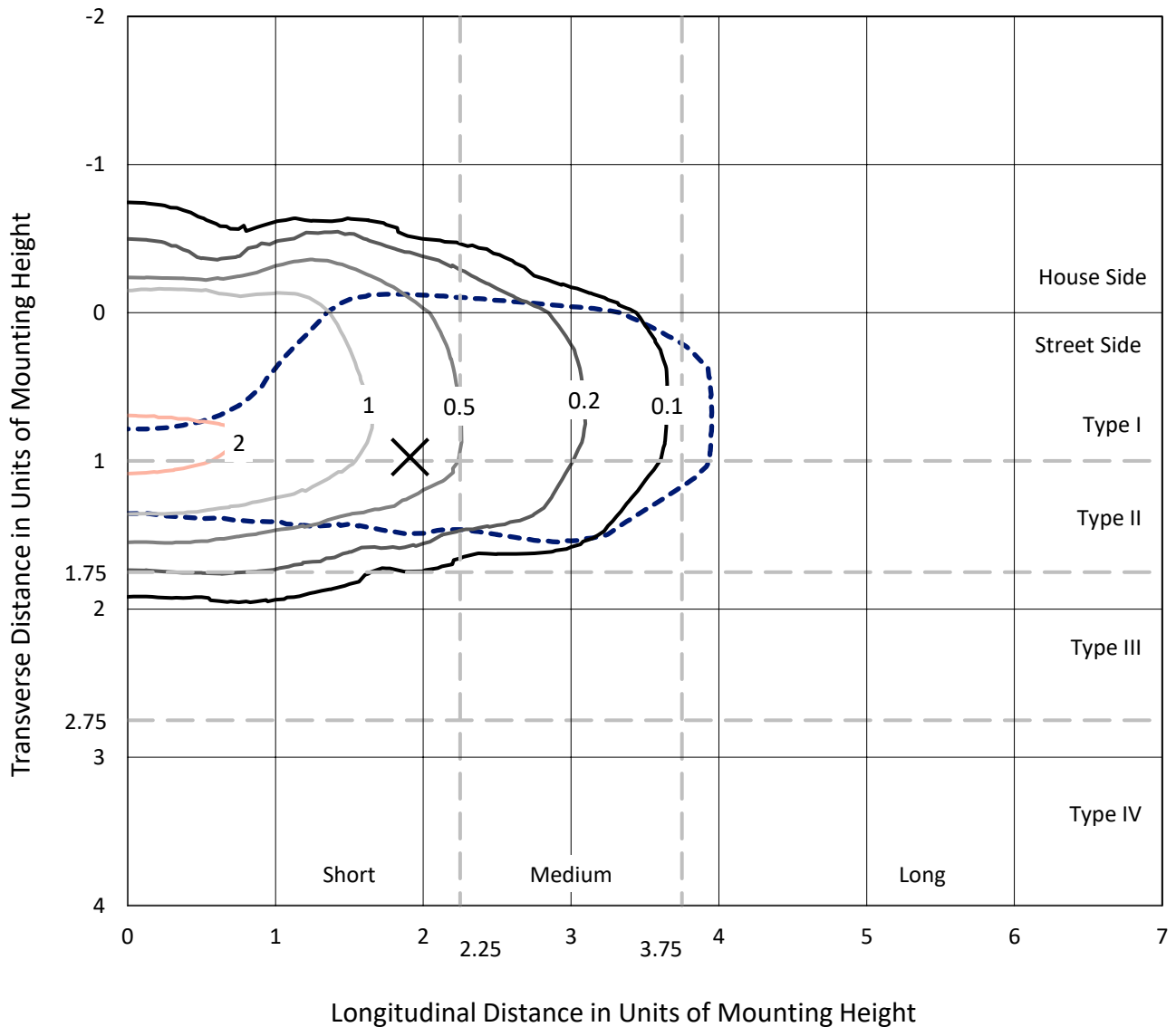
Input Watts (W): 73.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

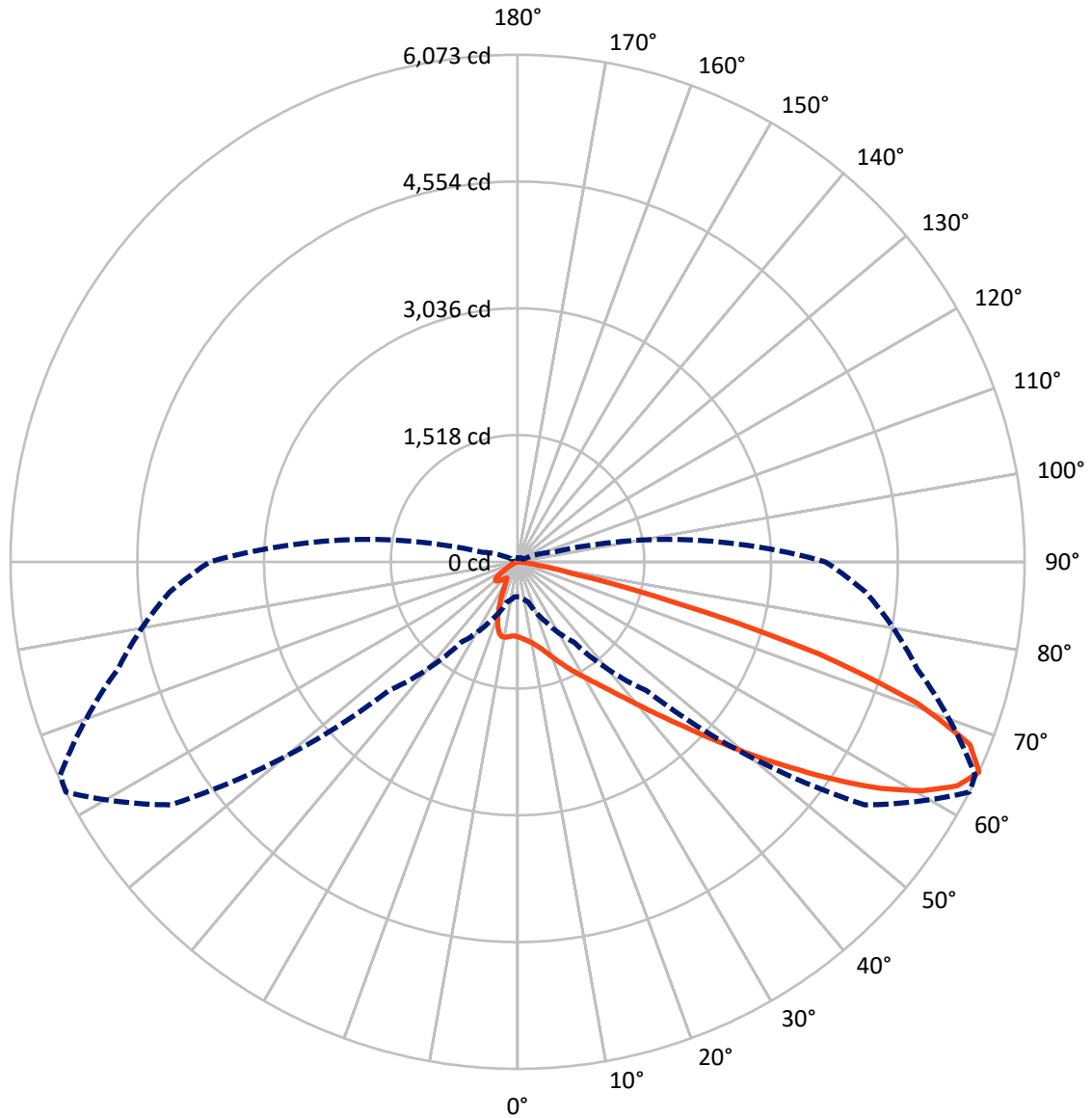
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 63-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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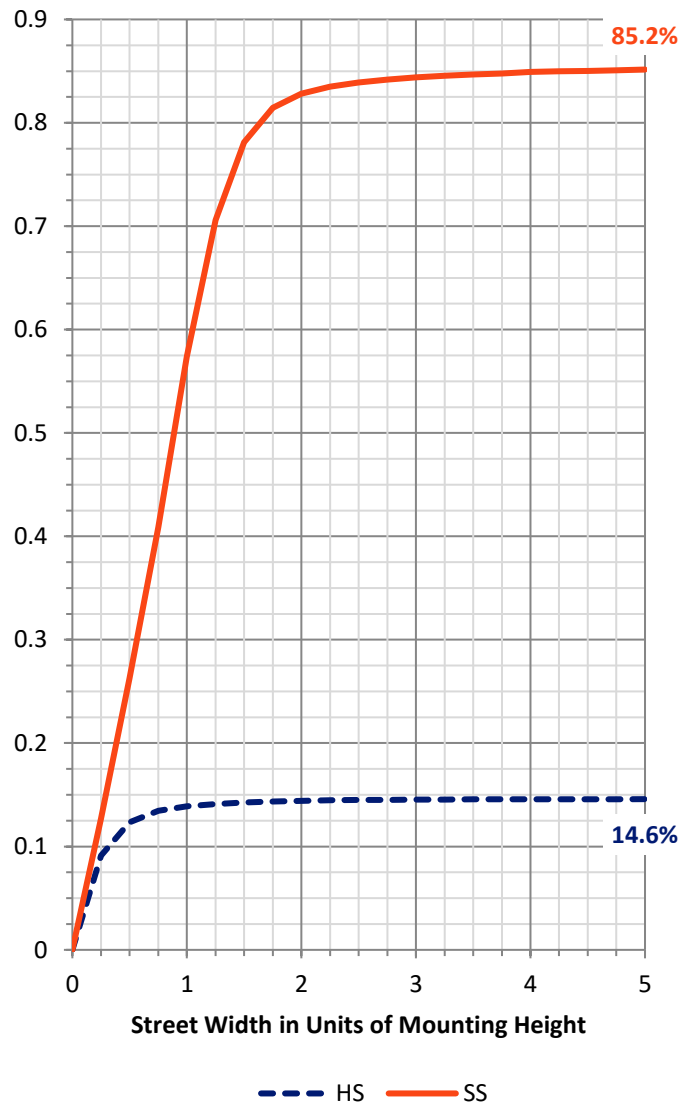
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1071.1	0.0	1071.1
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	6215.6	0.0	6215.6
	% Fixture	85.3	0.0	85.3
Total	Lumens	7286.7	0.0	7286.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	84.7	1.2
10°-20°	235.1	3.2
20°-30°	409.4	5.6
30°-40°	737.9	10.1
40°-50°	1463.4	20.1
50°-60°	1993.4	27.4
60°-70°	1591.1	21.8
70°-80°	720.0	9.9
80°-90°	51.8	0.7
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°	7286.7	100.0
0°-180°	7286.7	100.0

Coefficient of Utilization



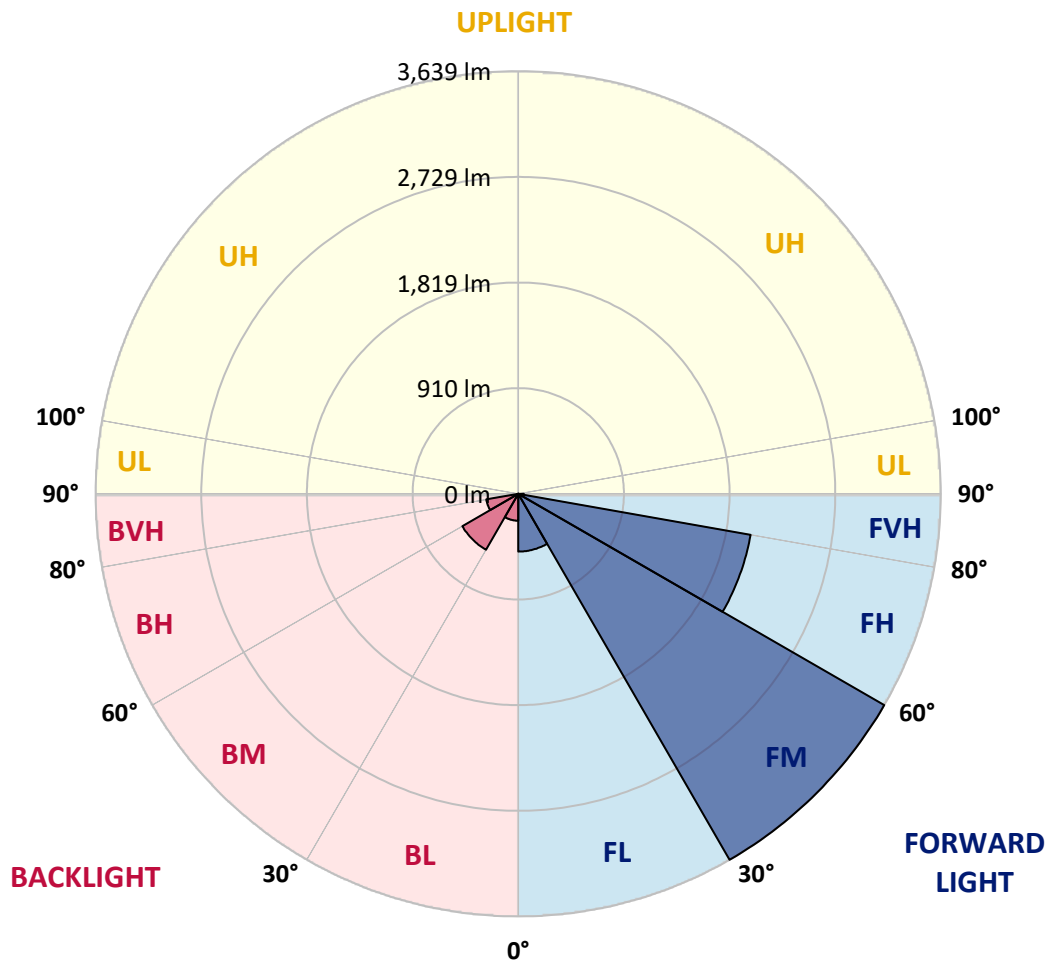
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	497.4	6.8			
FM (30°-60°)	3638.8	49.9			
FH (60°-80°)	2031.5	27.9			G2/5000
FVH (80°-90°)	47.9	0.7			G1/100
BL (0°-30°)	231.8	3.2	B1/500		
BM (30°-60°)	555.8	7.6	B1/1000		
BH (60°-80°)	279.6	3.8	B1/500		G1/500
BVH (80°-90°)	3.8	0.1			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 II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°	85°
0°	899.3	899.3	899.3	899.3	899.3	899.3	899.3	899.3	899.3	899.3	899.3
2.5°	920.3	917.9	921.4	919.8	918.9	916.9	915.8	914.8	912.9	911.3	905.4
5°	922.9	921.4	924.9	927.9	930.9	933.9	935.4	937.5	935.4	931.4	925.4
7.5°	901.8	900.9	908.4	917.4	930.9	942.4	955.0	962.0	962.5	960.9	954.5
10°	900.4	897.8	905.4	916.4	933.9	954.5	976.5	991.6	993.5	1000.1	993.0
12.5°	923.8	921.4	931.9	943.9	962.0	983.5	1010.6	1031.7	1034.6	1043.7	1038.6
15°	963.5	960.0	972.0	987.6	1010.6	1035.1	1063.7	1082.8	1085.3	1096.3	1087.3
17.5°	1009.6	1006.1	1020.1	1036.7	1061.7	1095.3	1128.4	1149.4	1152.5	1159.5	1143.0
20°	1068.8	1064.3	1075.2	1090.3	1116.8	1157.0	1196.6	1226.6	1226.2	1226.2	1199.0
22.5°	1137.4	1130.4	1139.9	1152.0	1177.0	1225.7	1278.3	1313.8	1313.8	1299.8	1255.2
25°	1211.1	1204.1	1214.6	1225.7	1247.7	1302.9	1364.5	1408.7	1410.6	1386.6	1315.4
27.5°	1303.4	1294.4	1302.4	1315.4	1328.4	1384.6	1457.8	1508.9	1509.9	1472.8	1372.6
30°	1480.8	1455.3	1430.2	1416.1	1422.2	1477.8	1556.1	1612.6	1617.7	1566.5	1434.7
32.5°	1805.6	1800.6	1712.5	1597.2	1537.0	1578.1	1665.8	1734.0	1737.0	1671.3	1515.4
35°	2310.5	2304.4	2162.5	1943.0	1747.0	1712.5	1799.2	1879.8	1877.8	1803.7	1620.2
37.5°	2913.0	2907.5	2720.6	2426.8	2109.4	1915.4	1971.1	2055.8	2068.3	1971.1	1755.5
40°	3427.8	3407.3	3289.0	3005.7	2590.7	2252.3	2215.7	2271.8	2284.9	2169.6	1927.5
42.5°	3817.8	3800.3	3740.1	3563.2	3173.2	2750.6	2504.0	2525.5	2540.1	2401.7	2125.0
45°	4019.8	4015.8	4039.9	4023.3	3766.7	3362.2	2916.0	2826.3	2831.8	2658.8	2349.1
47.5°	4048.4	4046.4	4156.2	4311.7	4277.0	4051.9	3444.9	3201.3	3181.7	2949.1	2592.7
50°	3880.0	3876.0	4086.6	4377.8	4617.9	4631.5	4045.5	3623.9	3580.7	3249.4	2846.8
52.5°	3342.1	3341.1	3687.0	4171.8	4737.8	5138.7	4638.9	4088.0	4015.8	3567.2	3115.5
55°	2571.6	2590.2	2986.7	3559.7	4519.1	5382.9	5171.8	4603.4	4492.6	3887.0	3363.1
57.5°	1821.7	1848.8	2240.8	2751.1	3841.4	5238.5	5532.2	5119.7	5000.4	4205.9	3614.4
60°	978.6	1002.6	1395.1	2004.2	2857.9	4700.1	5722.3	5567.9	5455.0	4508.7	3840.9
62.5°	583.0	591.0	753.5	1293.9	1932.9	3590.8	5641.6	5909.2	5816.5	4762.8	4037.9
65°	418.6	420.0	501.8	790.1	1173.5	2181.6	5075.6	6072.6	6044.1	4954.2	4183.7
67.5°	352.4	351.4	385.5	524.9	799.6	1092.9	3890.1	5841.6	5962.8	5075.6	4266.5
70°	302.3	303.8	343.9	384.5	601.1	618.6	1934.0	5086.2	5344.8	5107.7	4261.5
72.5°	225.1	230.1	267.2	350.4	453.7	425.6	667.7	3771.2	4238.9	4812.4	4040.4
75°	158.9	161.4	188.0	294.8	338.4	309.8	340.9	1949.5	2549.1	3689.5	3307.1
77.5°	122.3	126.8	142.4	206.0	333.3	217.6	208.6	674.8	1036.7	2228.8	2267.3
80°	66.2	74.2	102.8	148.9	234.1	153.9	103.2	268.7	351.4	1042.2	874.2
82.5°	34.1	38.1	71.6	107.3	133.4	134.4	51.1	111.8	144.8	321.8	119.8
85°	13.5	16.5	48.2	59.1	68.7	66.2	23.1	45.1	52.2	89.3	36.6
87.5°	3.0	5.0	17.5	13.5	13.0	14.0	5.5	10.6	10.0	10.6	6.6
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°	899.3	899.3	899.3	899.3	899.3	899.3	899.3	899.3	899.3	899.3	899.3
2.5°	904.9	902.8	897.3	891.3	884.3	880.3	877.8	877.3	873.7	871.2	873.7
5°	919.8	917.9	907.3	894.8	881.3	870.7	860.7	851.7	838.7	836.2	835.2
7.5°	950.0	944.4	927.4	910.3	884.8	854.2	817.1	774.5	736.4	724.9	719.3
10°	987.1	979.5	958.0	927.9	871.2	788.0	698.3	615.1	548.9	530.3	523.4
12.5°	1029.2	1022.6	994.0	938.4	814.6	663.7	526.3	423.1	359.0	342.9	338.4
15°	1079.3	1069.8	1030.1	922.4	713.3	504.3	361.4	300.3	277.3	274.2	271.2
17.5°	1132.4	1116.8	1062.2	864.7	577.0	358.4	279.2	261.7	251.6	248.7	247.1
20°	1181.0	1161.0	1081.3	777.5	431.1	279.2	250.1	238.6	229.6	226.1	224.1
22.5°	1229.7	1201.1	1081.3	658.7	323.3	247.6	229.6	219.0	208.6	204.0	201.5
25°	1280.3	1242.2	1062.2	526.3	260.1	227.0	210.0	198.5	189.5	184.0	181.9
27.5°	1329.4	1276.8	1018.6	401.1	231.5	209.0	192.0	181.0	172.4	168.4	168.4
30°	1376.1	1310.9	957.5	304.3	213.1	191.5	175.5	165.9	157.4	153.4	153.9
32.5°	1439.2	1354.0	892.3	249.7	197.0	175.0	160.4	151.4	143.9	140.8	140.8
35°	1526.9	1417.7	836.2	245.2	183.5	161.4	146.9	138.4	130.8	128.3	128.3
37.5°	1651.3	1520.4	806.6	275.2	172.4	149.3	135.8	126.8	119.8	117.8	117.3
40°	1804.6	1659.8	822.7	305.2	164.9	138.9	125.9	116.8	110.8	108.2	107.7
42.5°	1986.7	1831.7	911.3	328.3	159.9	129.9	116.3	106.3	102.3	101.3	101.3
45°	2195.7	2020.7	1047.2	352.9	151.9	121.4	106.8	99.2	96.2	95.7	95.2
47.5°	2433.2	2228.2	1204.6	383.5	143.9	113.3	99.2	94.2	91.7	90.7	90.7
50°	2668.9	2437.2	1366.5	400.6	137.4	105.8	93.3	89.3	87.2	86.7	86.7
52.5°	2915.5	2652.3	1497.3	384.5	131.8	99.7	88.3	85.2	83.2	82.7	82.7
55°	3150.6	2826.3	1519.9	326.4	120.8	93.8	82.7	81.2	78.7	78.7	78.2
57.5°	3353.2	2913.6	1360.5	239.6	109.8	84.8	77.2	75.6	73.7	73.2	72.7
60°	3539.1	2888.4	1050.2	161.4	97.8	75.6	70.2	69.2	67.1	64.7	64.2
62.5°	3643.9	2778.2	718.3	105.3	85.7	66.2	62.1	61.7	57.2	52.2	51.1
65°	3683.5	2551.5	448.1	76.7	71.6	56.7	53.6	52.7	46.1	40.6	40.1
67.5°	3648.9	2178.6	226.1	60.7	56.7	47.2	44.1	44.1	39.6	34.5	34.1
70°	3510.5	1633.2	95.2	48.6	43.6	36.1	36.1	38.1	33.6	28.1	27.6
72.5°	3210.3	1098.8	50.6	37.1	32.6	25.5	29.6	31.1	26.5	21.0	21.0
75°	2552.0	670.2	35.1	27.6	20.6	18.0	22.5	23.6	18.0	14.0	13.5
77.5°	1745.5	385.0	23.6	17.5	13.0	10.6	15.6	14.6	9.5	6.6	7.0
80°	766.5	160.4	13.5	8.0	5.0	4.0	5.5	4.0	3.0	2.0	2.0
82.5°	89.7	37.6	5.0	3.0	2.0	1.0	0.5	0.0	0.0	0.0	0.0
85°	18.6	4.5	2.5	1.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	3.5	1.0	0.5	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)