

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: P963422

Luminaire Tested: **NAV-SB3A-722-U-T2R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P963422
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-3)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB3A-722-U-T2R
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 2200K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11608.1 lumens
Efficiency: N/A
Efficacy: 137.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G2

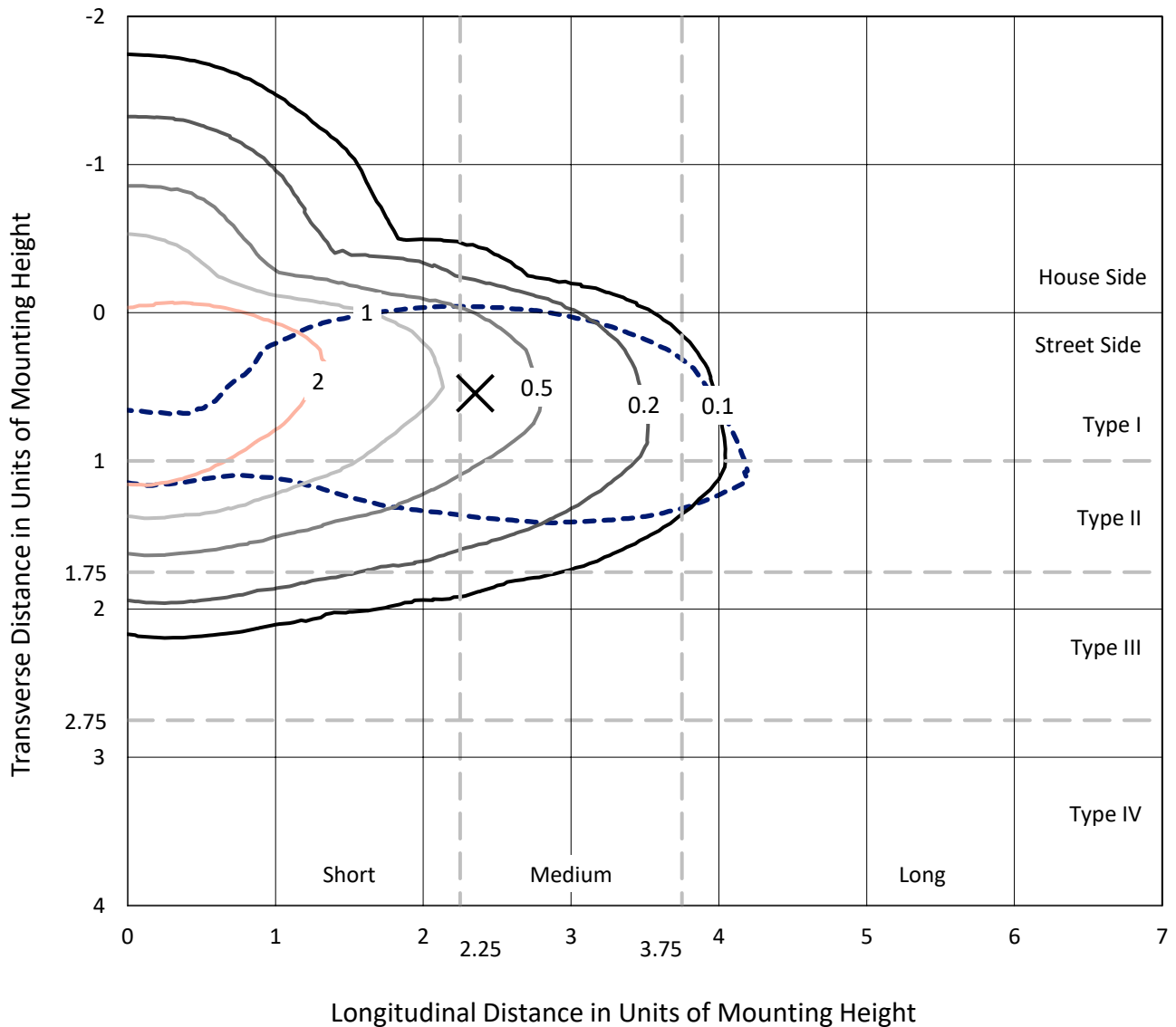
Input Watts (W): 84.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P963422
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Iso-Footcandle Lines of Horizontal Illumination

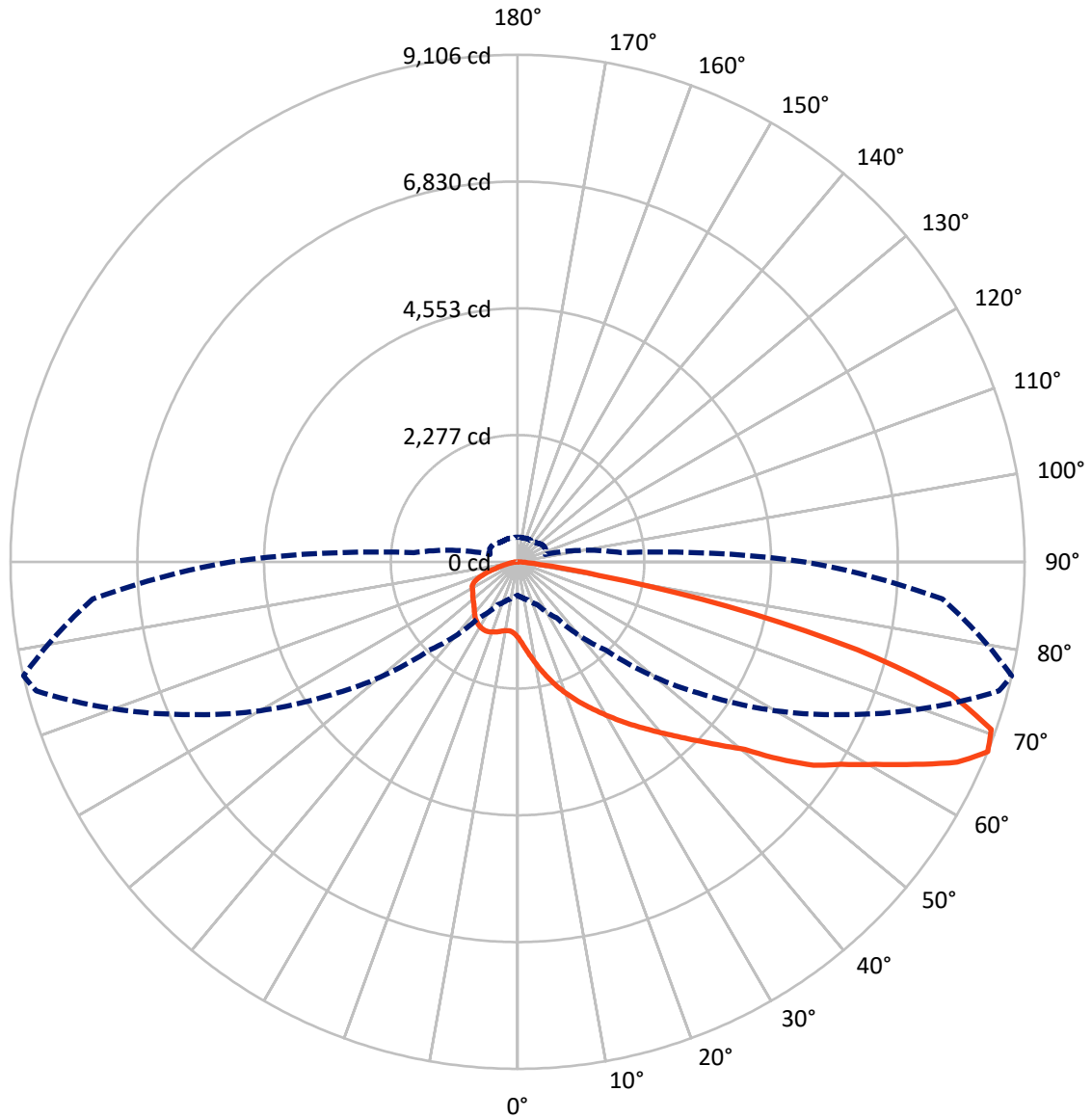
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.3 fc
 Type II - Medium - N/A

REPORT NUMBER: P963422
CATALOG NUMBER: NAV-SB3A-722-U-T2R

Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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 CATALOG NUMBER: NAV-SB3A-722-U-T2R

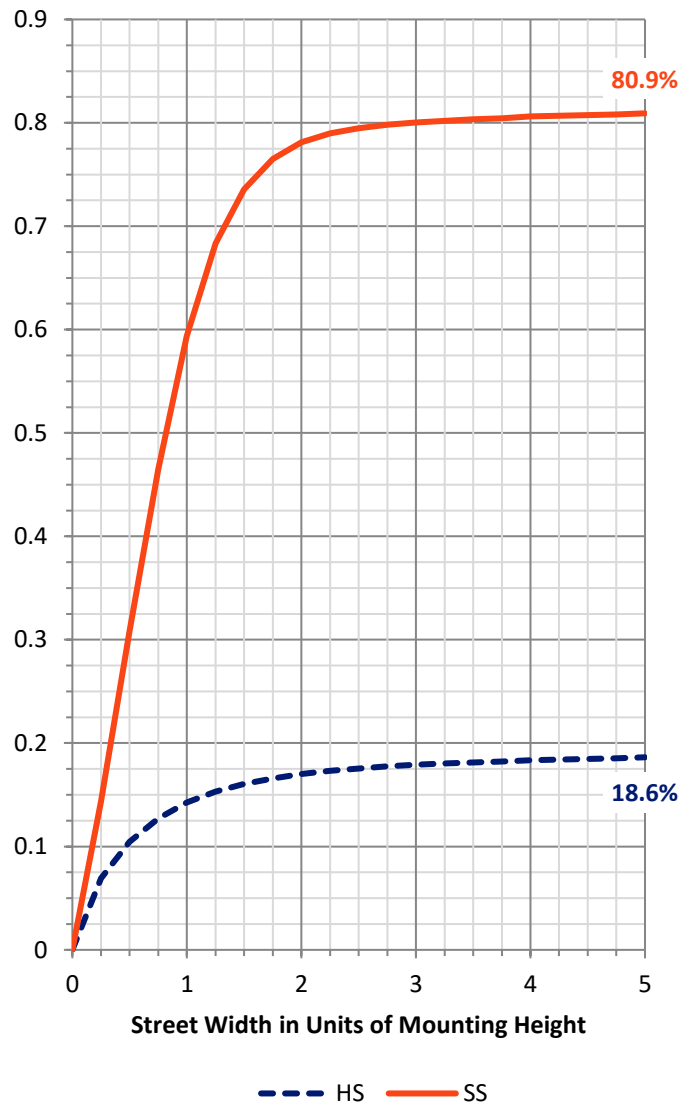
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2195.8	0.0	2195.8
	% Fixture	18.9	0.0	18.9
Street Side	Lumens	9412.3	0.0	9412.3
	% Fixture	81.1	0.0	81.1
Total	Lumens	11608.1	0.0	11608.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	146.0	1.3
10°-20°	524.5	4.5
20°-30°	990.3	8.5
30°-40°	1595.3	13.7
40°-50°	2182.1	18.8
50°-60°	2461.4	21.2
60°-70°	2297.4	19.8
70°-80°	1259.4	10.8
80°-90°	151.9	1.3
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°	11608.1	100.0
0°-180°	11608.1	100.0

Coefficient of Utilization

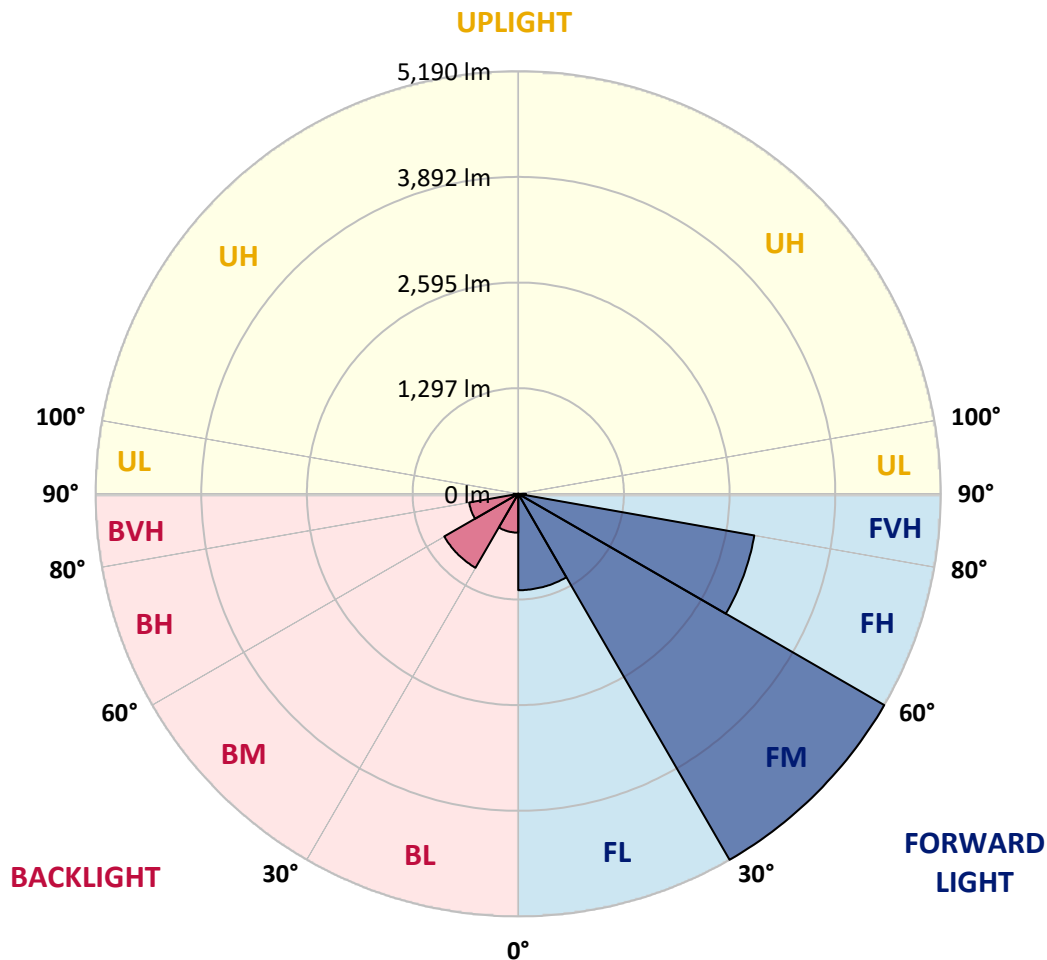


REPORT NUMBER: P963422
 CATALOG NUMBER: NAV-SB3A-722-U-T2R

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1183.3	10.2			
FM (30°-60°)	5189.9	44.7			
FH (60°-80°)	2944.2	25.4			G2/5000
FVH (80°-90°)	95.0	0.8			G1/100
BL (0°-30°)	477.4	4.1	B1/500		
BM (30°-60°)	1048.9	9.0	B2/2500		
BH (60°-80°)	612.6	5.3	B2/1000		G2/1000
BVH (80°-90°)	56.9	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2
 Type II Medium



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 CATALOG NUMBER: NAV-SB3A-722-U-T2R

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	1362.0	1362.0	1362.0	1362.0	1362.0	1362.0	1362.0	1362.0	1362.0	1362.0	1362.0
2.5°	1705.3	1717.3	1702.3	1702.3	1652.0	1625.6	1575.3	1537.0	1468.0	1456.1	1410.5
5°	2015.8	2030.7	2009.7	2000.7	1941.5	1886.9	1802.4	1719.1	1596.2	1583.7	1476.4
7.5°	2256.0	2275.2	2256.6	2247.0	2194.3	2133.1	2034.3	1918.1	1744.9	1720.4	1565.2
10°	2451.9	2455.0	2448.9	2452.5	2411.2	2360.9	2259.6	2124.2	1907.8	1874.3	1672.4
12.5°	2562.8	2576.5	2588.5	2610.2	2603.0	2571.8	2480.7	2319.0	2080.4	2037.3	1789.2
15°	2615.0	2638.9	2665.8	2715.6	2755.7	2763.5	2694.0	2528.1	2256.0	2203.9	1907.3
17.5°	2633.5	2656.3	2698.8	2770.7	2857.0	2915.1	2883.9	2731.2	2429.8	2369.9	2031.3
20°	2727.6	2734.2	2759.9	2828.3	2921.8	3018.2	3041.6	2926.5	2601.8	2534.0	2159.6
22.5°	2928.9	2915.7	2922.9	2954.0	3021.2	3114.7	3168.0	3099.1	2778.5	2700.6	2288.9
25°	3261.4	3223.1	3184.8	3148.8	3182.9	3235.7	3296.2	3271.7	2963.7	2864.8	2419.6
27.5°	3681.5	3634.8	3550.3	3432.2	3390.9	3409.5	3436.4	3431.7	3135.1	3035.0	2554.4
30°	4095.0	4040.4	3939.8	3769.0	3660.0	3610.8	3590.5	3576.6	3321.4	3214.7	2690.4
32.5°	4425.1	4382.0	4283.2	4092.0	3933.7	3849.9	3782.1	3733.0	3516.2	3409.5	2834.2
35°	4714.0	4673.8	4560.5	4352.0	4180.1	4090.8	4002.1	3897.3	3718.7	3610.8	2988.8
37.5°	4977.6	4937.4	4782.2	4565.3	4392.1	4330.4	4251.4	4073.3	3921.8	3820.0	3152.4
40°	5144.2	5135.1	4990.2	4744.5	4564.7	4534.2	4507.8	4277.7	4147.2	4052.4	3332.2
42.5°	5186.7	5206.5	5091.5	4889.6	4718.2	4693.6	4755.3	4509.0	4399.9	4309.5	3535.9
45°	5084.3	5141.2	5065.7	4928.5	4827.2	4814.0	4974.6	4761.8	4679.8	4597.1	3781.6
47.5°	4824.8	4921.2	4890.1	4870.9	4856.6	4913.4	5167.5	5030.3	4996.8	4924.8	4062.0
50°	4301.1	4483.9	4538.4	4659.4	4798.4	4990.8	5343.1	5323.3	5367.1	5294.5	4403.6
52.5°	3395.7	3647.4	3963.8	4267.0	4619.9	4965.0	5536.0	5744.0	5928.5	5889.0	4946.4
55°	2803.1	2916.3	3159.6	3715.6	4273.5	4856.6	5622.9	6083.7	6485.8	6450.4	5358.1
57.5°	2347.7	2448.9	2598.8	3063.1	3749.9	4610.2	5676.9	6291.0	6867.5	6863.9	5764.4
60°	1859.4	1966.6	2120.0	2448.9	3138.0	4184.9	5664.9	6527.1	7354.7	7384.6	6259.9
62.5°	1308.1	1426.1	1596.2	1903.1	2513.1	3633.6	5420.4	6698.0	7928.1	8009.6	6856.1
65°	859.9	937.8	1066.0	1330.9	1872.5	2924.7	4953.6	6720.1	8541.6	8679.5	7415.8
67.5°	602.8	632.7	708.3	852.1	1234.4	2242.8	4210.0	6490.6	8950.9	9106.1	7658.5
70°	470.4	485.3	523.7	581.3	775.4	1508.2	3226.1	5893.7	8863.5	9025.2	7405.0
72.5°	406.3	420.7	435.0	442.2	520.1	931.2	2185.3	4927.9	8039.6	8149.2	6438.4
75°	368.5	372.1	384.1	381.7	396.7	604.0	1261.4	3590.5	6343.2	6305.4	4752.9
77.5°	309.8	314.6	334.4	331.4	352.3	412.9	655.0	2317.1	4112.3	3855.8	2645.5
80°	262.5	264.9	286.4	282.8	306.2	299.0	334.4	1181.0	1744.2	1477.6	762.8
82.5°	91.1	112.6	218.7	225.3	233.7	180.9	192.9	481.7	532.7	408.1	160.0
85°	44.4	47.4	111.4	158.2	157.5	91.1	94.1	172.0	167.8	131.8	53.3
87.5°	7.2	9.0	13.2	61.7	49.1	24.0	32.4	33.5	34.7	29.9	12.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P963422
 CATALOG NUMBER: NAV-SB3A-722-U-T2R

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1362.0	1362.0	1362.0	1362.0	1362.0	1362.0	1362.0	1362.0	1362.0	1362.0	1362.0
2.5°	1377.0	1347.1	1284.1	1226.0	1180.4	1136.7	1112.1	1091.1	1079.1	1076.8	1076.8
5°	1414.1	1352.4	1238.0	1141.4	1078.6	1031.9	1007.3	991.7	983.9	979.1	978.5
7.5°	1467.5	1377.0	1214.0	1104.3	1038.4	1004.9	992.3	989.8	989.3	989.8	991.7
10°	1541.2	1417.2	1211.6	1095.3	1040.2	1021.6	1021.0	1021.6	1024.1	1024.6	1025.2
12.5°	1620.8	1458.5	1221.2	1103.1	1063.0	1052.8	1051.0	1050.4	1052.2	1053.4	1054.0
15°	1707.8	1513.0	1237.4	1119.9	1088.1	1077.4	1075.5	1071.9	1071.3	1070.8	1070.2
17.5°	1797.0	1566.9	1255.3	1137.9	1104.3	1089.4	1082.8	1074.4	1067.7	1066.0	1067.7
20°	1887.5	1620.2	1267.9	1146.9	1105.6	1084.6	1071.3	1057.0	1045.6	1039.0	1041.4
22.5°	1984.0	1676.0	1275.7	1144.5	1094.7	1066.0	1042.0	1025.2	1007.9	996.5	997.1
25°	2078.1	1724.6	1275.1	1131.9	1073.8	1037.2	1006.7	985.1	961.1	949.1	949.1
27.5°	2168.5	1768.2	1260.1	1109.8	1043.9	1003.1	966.5	940.7	917.4	906.0	905.4
30°	2262.0	1804.8	1236.8	1077.4	1008.5	963.5	923.4	901.2	880.3	869.4	868.9
32.5°	2354.8	1838.3	1203.8	1037.2	967.7	924.6	885.0	864.7	852.1	852.1	852.7
35°	2453.1	1861.7	1160.1	990.5	924.6	883.2	852.1	840.1	838.9	831.7	829.9
37.5°	2556.8	1876.7	1106.7	942.6	882.0	843.1	833.5	819.1	807.1	791.5	789.1
40°	2665.8	1891.7	1042.6	892.8	837.1	815.5	811.3	792.1	758.0	719.7	714.2
42.5°	2798.2	1901.9	976.1	843.1	789.8	782.6	788.5	755.6	701.1	672.3	672.9
45°	2951.7	1918.7	915.0	794.0	741.2	741.2	766.4	723.2	678.3	660.3	663.3
47.5°	3150.6	1957.6	858.0	740.0	696.3	708.3	717.3	684.3	659.1	636.9	636.3
50°	3438.3	2051.1	799.3	685.5	662.2	686.1	673.5	654.4	624.9	607.0	605.2
52.5°	3795.4	2106.2	747.2	636.3	632.7	656.7	638.8	620.7	598.6	574.6	569.8
55°	4038.6	2116.4	703.5	600.4	612.9	610.6	604.0	587.8	575.8	544.1	544.7
57.5°	4310.6	2136.7	667.5	578.8	600.4	574.0	571.6	557.9	542.3	520.7	513.5
60°	4636.1	2168.5	636.3	570.4	589.6	550.1	538.1	532.7	517.1	506.4	509.3
62.5°	4990.8	2197.3	604.6	571.6	577.1	526.7	508.7	507.0	497.3	493.7	493.7
65°	5232.8	2118.8	565.1	570.4	557.3	502.8	480.0	479.4	471.6	470.4	469.8
67.5°	5148.4	1870.1	511.7	553.7	536.9	478.8	453.6	451.2	441.1	441.6	441.6
70°	4725.4	1515.4	438.0	512.3	511.7	457.2	426.0	418.2	404.5	406.8	409.3
72.5°	3932.0	1122.9	339.2	443.4	471.6	437.5	394.3	381.7	364.3	366.7	366.1
75°	2839.7	763.4	246.9	337.3	410.4	414.1	363.2	341.5	320.6	324.2	325.3
77.5°	1453.0	432.7	181.5	232.5	322.4	376.3	335.0	306.2	301.3	335.0	330.2
80°	474.0	216.9	125.9	163.0	211.6	308.0	293.6	260.7	259.4	267.2	229.5
82.5°	141.4	91.6	80.9	107.2	116.8	236.1	253.5	197.1	169.5	178.6	184.6
85°	48.6	44.4	46.1	53.3	55.8	138.4	177.3	130.6	123.4	136.0	134.2
87.5°	11.4	15.6	13.2	12.0	12.0	33.5	68.9	54.5	75.5	50.3	48.6
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)