

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: P963421

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

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P963421
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-SB3A-722-U-T2R-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 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: 9649.3 lumens
Efficiency: N/A
Efficacy: 113.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G2

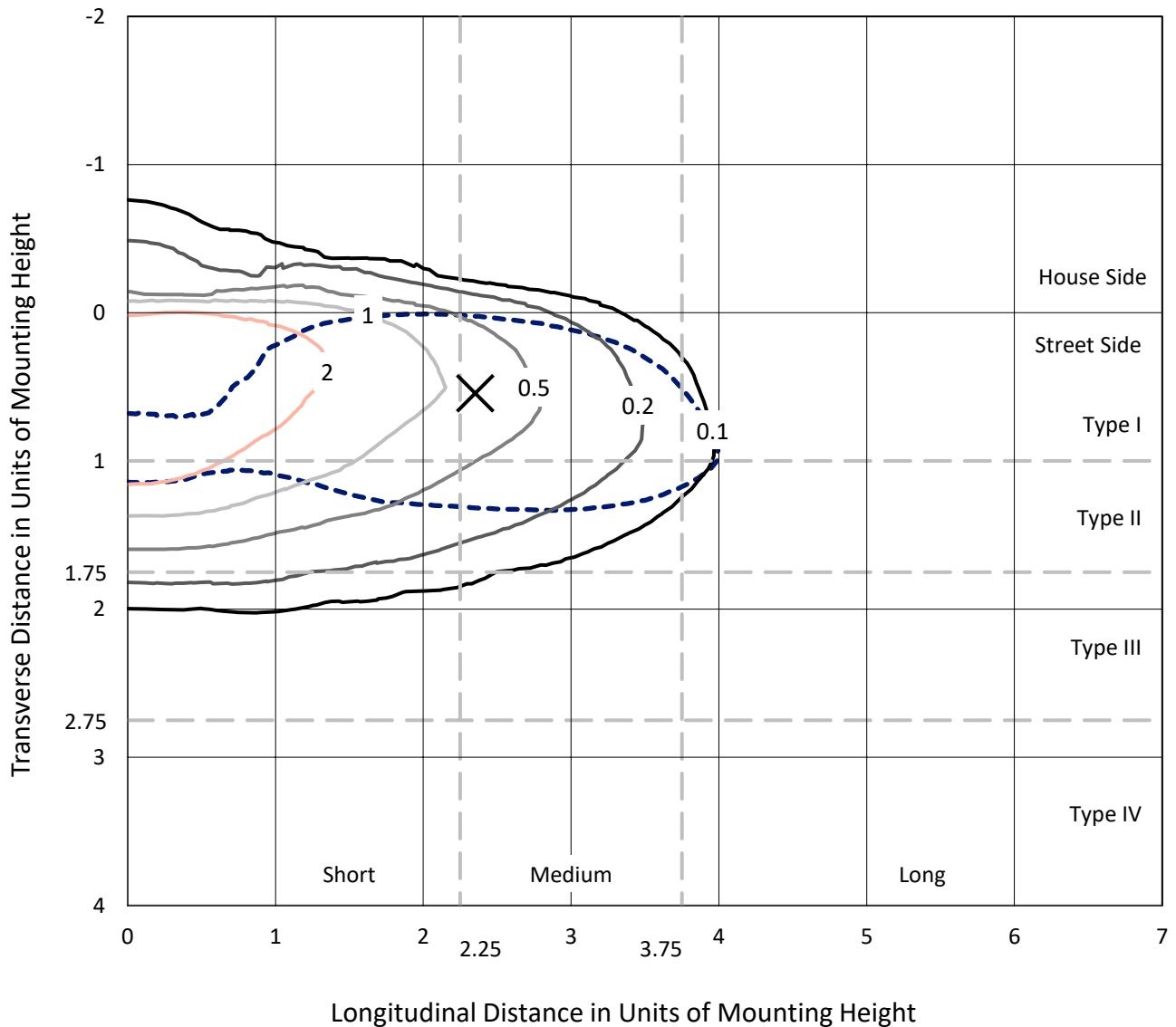
Input Watts (W): 84.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P963421
 CATALOG NUMBER: NAV-SB3A-722-U-T2R-HSS

Iso-Footcandle Lines of Horizontal Illumination

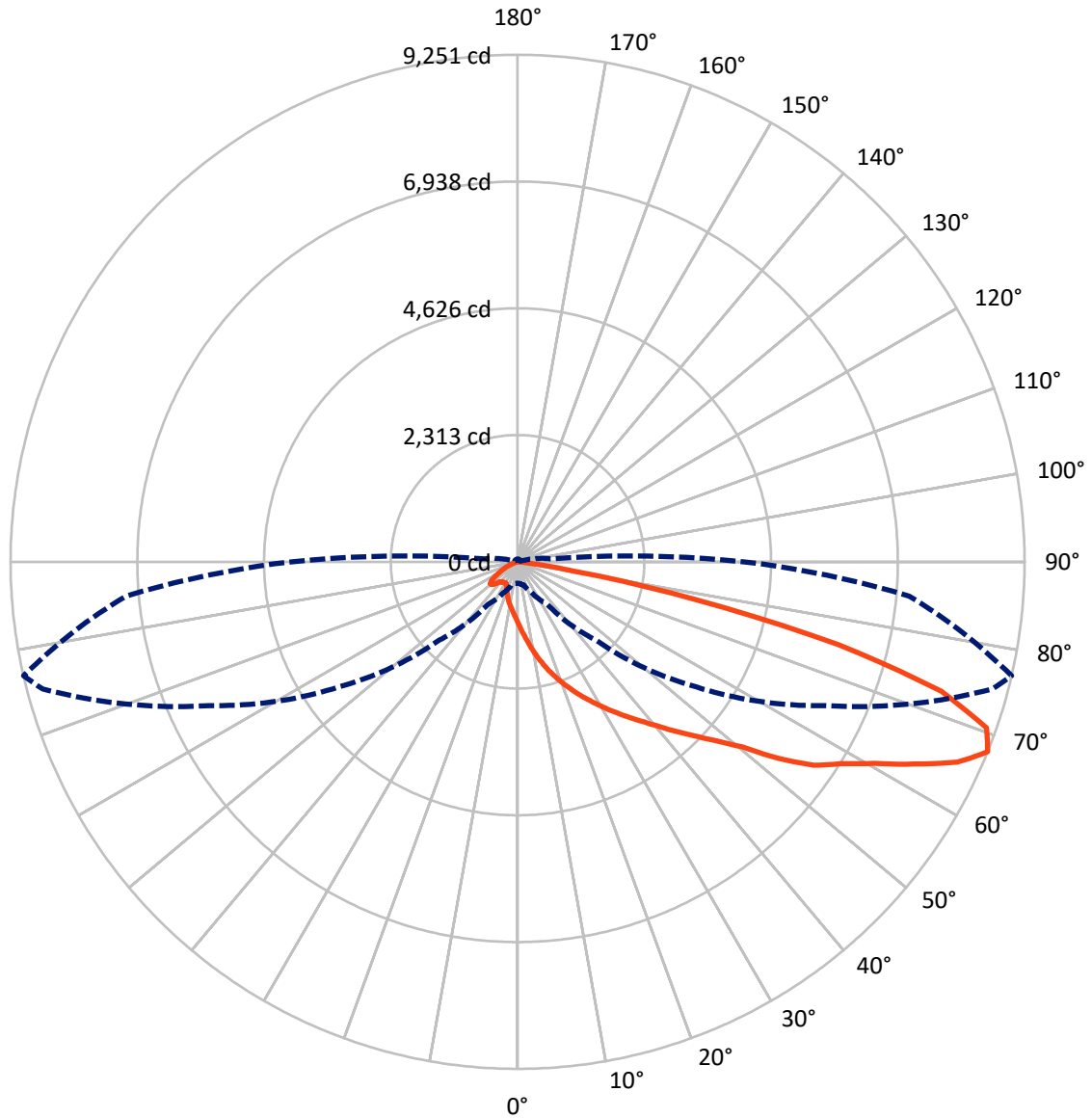
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.2 fc
 Type II - Medium - N/A

REPORT NUMBER: P963421
CATALOG NUMBER: NAV-SB3A-722-U-T2R-HSS

Luminous Intensity Polar Plot



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

REPORT NUMBER: P963421
 CATALOG NUMBER: NAV-SB3A-722-U-T2R-HSS

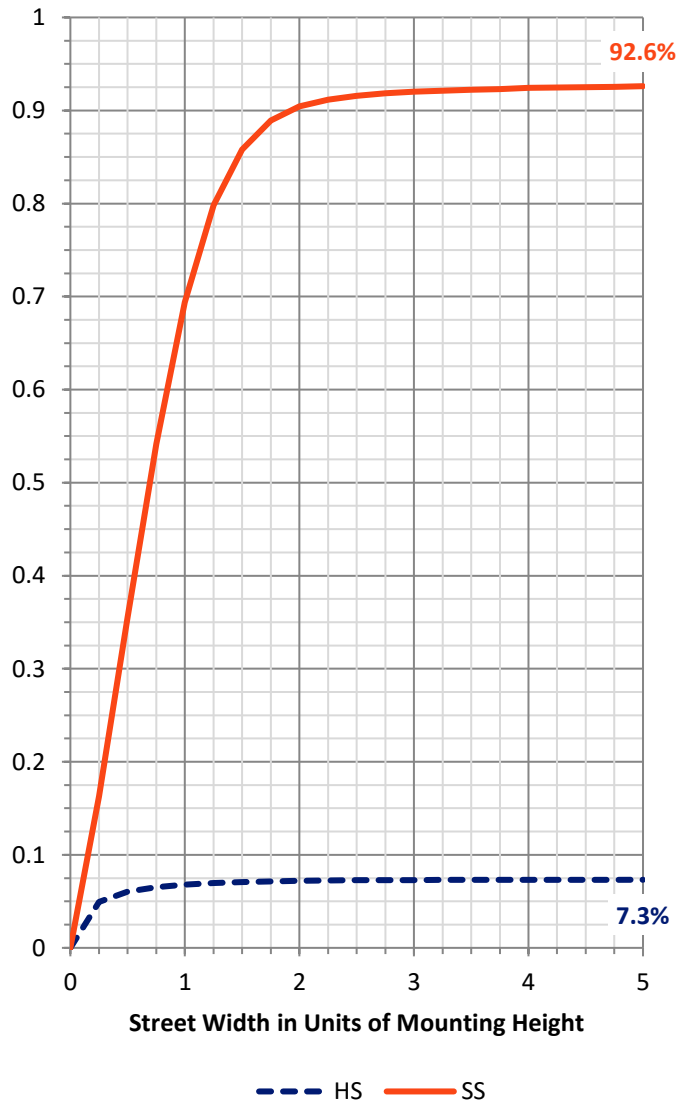
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	709.9	0.0	709.9
	% Fixture	7.4	0.0	7.4
Street Side	Lumens	8939.4	0.0	8939.4
	% Fixture	92.6	0.0	92.6
Total	Lumens	9649.3	0.0	9649.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	113.6	1.2
10°-20°	397.7	4.1
20°-30°	767.5	8.0
30°-40°	1332.4	13.8
40°-50°	1934.5	20.0
50°-60°	2221.6	23.0
60°-70°	1928.7	20.0
70°-80°	908.5	9.4
80°-90°	44.9	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°	9649.3	100.0
0°-180°	9649.3	100.0

Coefficient of Utilization

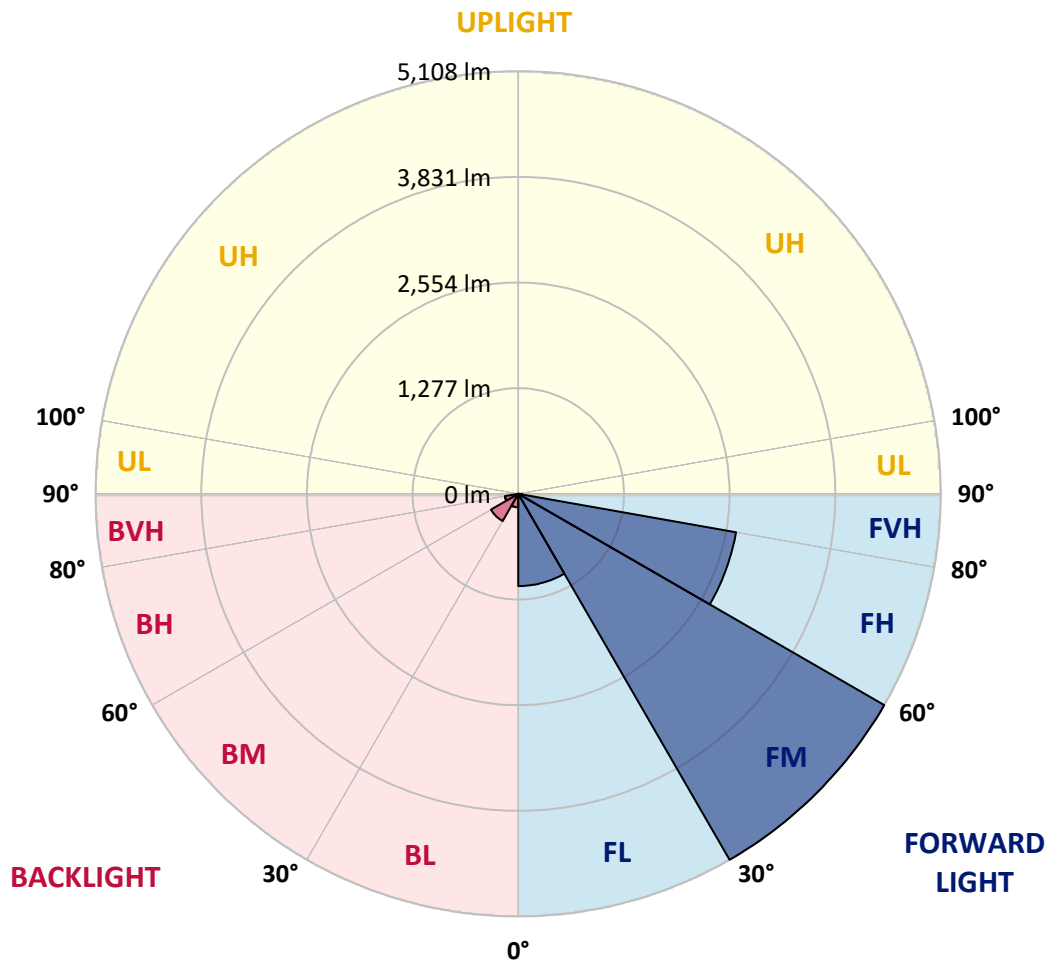


REPORT NUMBER: P963421
 CATALOG NUMBER: NAV-SB3A-722-U-T2R-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1114.4	11.5			
FM (30°-60°)	5108.1	52.9			
FH (60°-80°)	2672.8	27.7			G2/5000
FVH (80°-90°)	44.1	0.5			G1/100
BL (0°-30°)	164.4	1.7	B1/500		
BM (30°-60°)	380.4	3.9	B1/1000		
BH (60°-80°)	164.4	1.7	B1/500		G1/500
BVH (80°-90°)	0.8	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-G2
 Type II Medium



REPORT NUMBER: P963421
 CATALOG NUMBER: NAV-SB3A-722-U-T2R-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	1112.7	1112.7	1112.7	1112.7	1112.7	1112.7	1112.7	1112.7	1112.7	1112.7	1112.7
2.5°	1540.6	1550.1	1536.4	1510.0	1470.5	1444.6	1381.8	1322.5	1256.5	1235.5	1169.6
5°	1877.9	1886.3	1870.7	1841.9	1789.2	1738.9	1656.2	1532.2	1403.3	1362.0	1245.2
7.5°	2127.8	2132.5	2126.6	2100.2	2049.9	1992.9	1900.7	1753.9	1562.7	1517.2	1338.0
10°	2307.5	2323.1	2321.3	2311.1	2277.5	2231.4	2133.1	1966.0	1741.3	1682.5	1442.9
12.5°	2426.8	2444.1	2454.4	2477.1	2475.3	2446.0	2359.7	2182.8	1919.2	1850.3	1560.9
15°	2461.5	2480.1	2519.0	2571.7	2618.5	2633.4	2573.0	2395.6	2115.2	2027.0	1681.9
17.5°	2441.8	2470.5	2517.2	2600.5	2703.0	2770.7	2764.1	2601.1	2293.1	2192.5	1800.6
20°	2485.5	2513.0	2549.6	2619.7	2738.9	2861.8	2910.9	2797.6	2469.9	2364.5	1925.3
22.5°	2727.5	2722.7	2726.4	2737.8	2809.0	2930.7	3032.0	2976.2	2644.9	2537.0	2057.1
25°	3111.1	3089.5	3053.0	2991.2	2973.2	3032.0	3137.4	3134.4	2829.4	2713.8	2191.9
27.5°	3550.8	3547.2	3461.5	3313.0	3229.1	3206.3	3256.6	3288.4	3012.2	2888.8	2327.3
30°	3972.1	3981.7	3866.0	3700.7	3546.7	3457.3	3411.8	3434.6	3197.9	3077.5	2466.9
32.5°	4338.8	4349.0	4223.1	4029.6	3839.0	3731.2	3635.4	3579.0	3400.4	3269.2	2620.3
35°	4648.6	4658.7	4514.4	4300.5	4097.3	3999.7	3891.2	3737.3	3604.2	3481.9	2791.1
37.5°	4925.4	4922.5	4728.8	4513.2	4313.6	4236.3	4179.4	3931.9	3813.9	3695.8	2980.4
40°	5089.0	5101.5	4936.2	4698.3	4504.8	4448.5	4444.8	4173.4	4055.9	3941.5	3187.7
42.5°	5136.9	5159.1	5039.3	4843.9	4668.4	4607.3	4701.3	4434.7	4337.6	4226.2	3422.1
45°	5050.7	5072.2	5017.7	4882.3	4779.8	4740.2	4921.8	4705.5	4638.4	4528.1	3686.3
47.5°	4798.9	4825.9	4839.1	4810.3	4809.2	4849.3	5119.6	4990.7	4995.5	4882.9	3992.5
50°	4311.9	4357.4	4478.4	4580.3	4737.9	4935.6	5311.9	5299.9	5398.2	5301.1	4391.5
52.5°	3426.3	3490.9	3908.0	4186.6	4540.8	4919.4	5523.4	5796.1	6104.6	5962.6	4954.1
55°	2753.4	2753.4	3092.4	3613.7	4156.1	4812.8	5615.7	6118.4	6585.8	6552.2	5350.3
57.5°	2244.6	2271.6	2487.9	2948.6	3599.4	4558.7	5672.7	6321.0	6973.5	6948.9	5737.3
60°	1385.4	1443.5	1852.1	2306.9	2966.0	4106.4	5636.7	6525.9	7443.9	7463.6	6203.5
62.5°	780.1	801.8	983.9	1659.8	2306.4	3498.1	5361.7	6640.4	8045.4	8129.4	6684.0
65°	538.6	549.5	619.6	1033.0	1598.7	2785.0	4824.2	6569.0	8648.2	8817.8	7091.6
67.5°	391.2	396.7	440.4	631.0	948.5	2019.2	3981.7	6209.4	8967.6	9251.0	7169.4
70°	300.8	304.4	336.2	414.6	560.3	1246.3	2891.7	5494.6	8736.3	9074.8	6770.3
72.5°	244.5	248.0	272.6	306.8	371.5	737.0	1752.6	4462.2	7715.3	8080.8	5763.7
75°	206.1	210.9	233.1	255.2	291.2	473.3	822.0	3107.5	5802.0	6041.8	4008.1
77.5°	114.5	105.5	189.3	211.6	245.7	299.6	384.7	1828.8	3249.5	3316.0	1778.4
80°	71.3	73.7	150.4	170.1	188.7	151.0	176.2	704.1	1126.5	1070.2	344.5
82.5°	4.2	9.6	115.6	122.8	129.5	64.7	66.5	239.0	271.4	249.3	61.1
85°	0.0	0.0	52.7	42.5	44.9	18.6	19.2	55.8	36.6	39.6	12.0
87.5°	0.0	0.0	0.0	1.2	0.0	1.8	3.6	4.8	1.8	2.4	4.2
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: P963421
 CATALOG NUMBER: NAV-SB3A-722-U-T2R-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1112.7	1112.7	1112.7	1112.7	1112.7	1112.7	1112.7	1112.7	1112.7	1112.7	1112.7
2.5°	1127.7	1085.8	1000.7	917.4	849.6	786.8	741.8	699.3	677.7	676.5	675.3
5°	1161.8	1073.8	903.6	753.2	632.1	535.0	472.2	427.2	404.5	396.7	395.4
7.5°	1209.8	1077.4	818.5	609.4	466.8	383.5	347.6	333.1	328.4	323.0	321.7
10°	1270.3	1085.8	742.4	490.8	367.9	326.0	311.6	305.6	302.0	298.4	297.2
12.5°	1338.0	1093.6	666.9	407.4	323.6	302.0	291.8	284.6	279.8	275.6	274.4
15°	1403.9	1098.3	588.5	349.3	300.8	283.4	272.6	264.9	258.3	253.5	252.9
17.5°	1469.2	1104.9	514.8	314.6	282.2	264.9	254.1	244.5	239.0	233.7	233.1
20°	1541.7	1103.7	445.2	290.0	263.6	246.3	234.9	225.9	220.5	214.5	213.9
22.5°	1608.8	1097.8	384.1	269.1	244.5	227.7	215.1	206.1	200.7	196.0	195.4
25°	1686.1	1093.0	333.1	249.9	226.5	209.7	196.0	187.6	181.5	177.3	176.8
27.5°	1760.4	1085.8	296.0	232.5	209.1	192.9	179.8	170.1	164.8	161.7	161.7
30°	1833.5	1083.9	282.2	215.8	193.5	177.3	164.2	155.2	151.0	149.8	149.2
32.5°	1921.7	1088.8	288.2	209.7	179.2	163.0	150.4	143.8	139.6	139.6	139.6
35°	2015.7	1087.5	297.2	215.1	169.5	148.6	139.0	134.8	130.6	130.6	130.6
37.5°	2133.7	1089.4	304.4	224.1	165.9	136.6	131.2	125.9	123.4	123.4	123.4
40°	2309.9	1148.6	300.8	231.9	164.8	128.2	117.5	115.6	113.9	113.9	113.9
42.5°	2525.6	1277.5	305.6	232.5	164.2	122.3	107.8	111.4	107.2	106.7	106.1
45°	2761.7	1418.3	336.2	219.9	163.6	119.2	103.0	107.2	100.7	100.7	100.7
47.5°	2996.0	1557.9	367.4	201.9	161.7	118.6	98.9	96.5	94.7	95.2	95.2
50°	3319.0	1671.8	379.2	177.3	157.5	117.5	91.1	91.6	90.5	91.6	91.6
52.5°	3670.7	1695.8	364.9	149.8	145.7	113.9	85.7	88.0	87.4	88.7	88.7
55°	3890.0	1669.9	301.3	124.6	127.0	99.4	80.3	85.1	85.1	85.1	85.1
57.5°	4116.5	1560.4	213.9	101.3	105.5	81.5	75.5	82.1	81.5	80.9	80.9
60°	4279.5	1382.9	140.8	83.3	83.8	67.1	70.1	77.3	76.7	73.7	73.7
62.5°	4401.1	1187.1	90.5	70.7	64.2	60.5	64.2	70.1	67.8	61.1	60.0
65°	4387.3	915.5	69.5	60.5	52.7	52.7	55.8	61.1	53.9	43.2	41.9
67.5°	4131.5	619.6	57.5	50.9	44.4	43.8	46.1	50.9	46.1	36.6	35.4
70°	3674.3	405.1	46.1	39.6	35.4	32.4	37.1	43.8	38.9	29.3	28.2
72.5°	2982.2	246.8	34.7	28.8	25.7	21.0	29.3	36.0	31.2	21.5	20.4
75°	1929.5	125.9	24.0	18.6	13.7	12.6	21.5	27.0	21.5	13.2	11.4
77.5°	738.2	52.7	13.2	8.4	7.2	5.9	12.0	16.2	9.0	3.0	2.4
80°	142.0	22.1	6.6	4.2	3.6	2.4	1.8	1.2	0.0	0.0	0.0
82.5°	24.6	7.2	2.4	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	8.4	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	3.0	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)