

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: P963426

Luminaire Tested: **NAV-SB3A-722-U-T3-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P963426
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-SB3A-722-U-T3-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 2200K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8938 lumens
Efficiency: N/A
Efficacy: 105.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

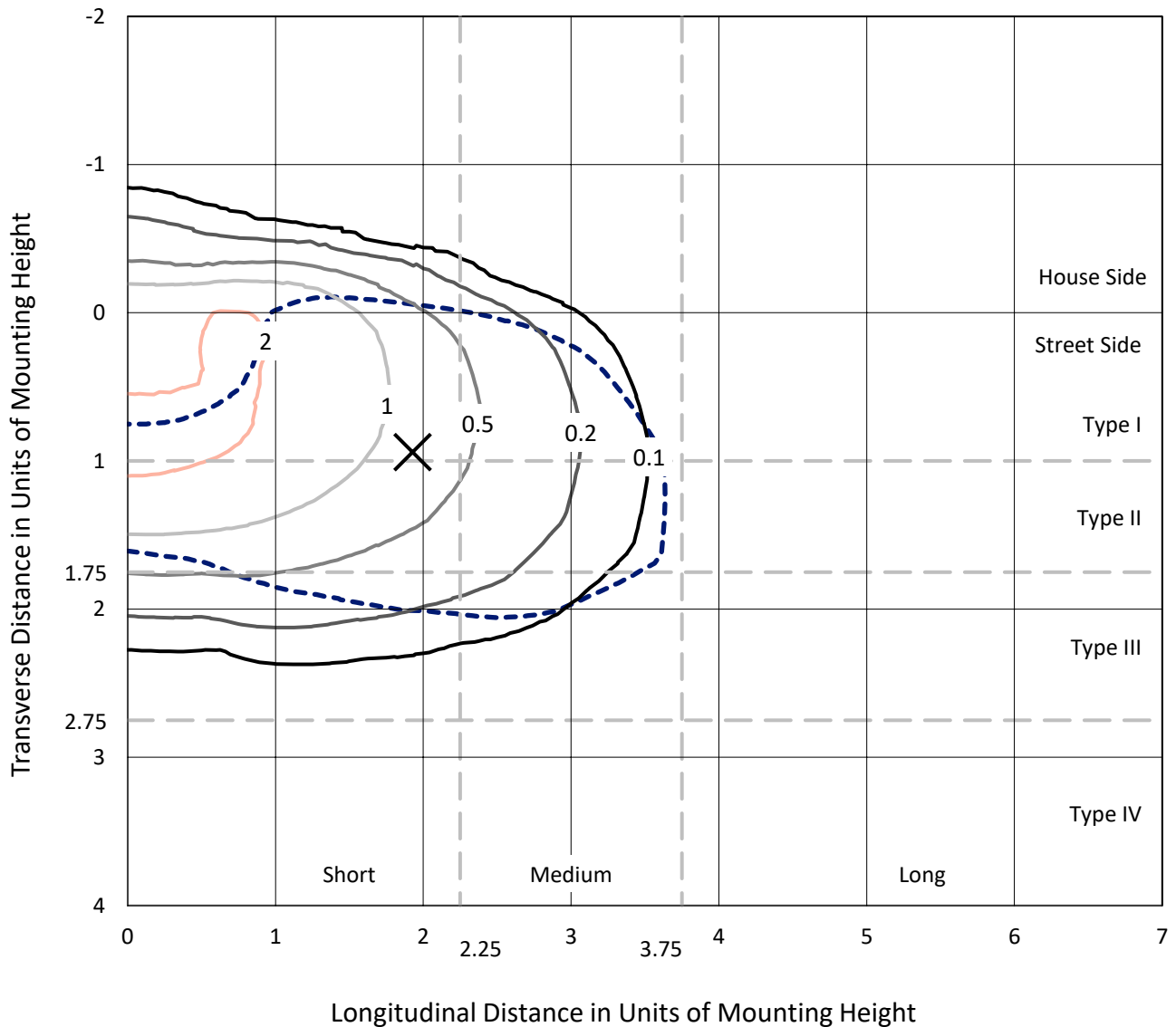
Input Watts (W): 84.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

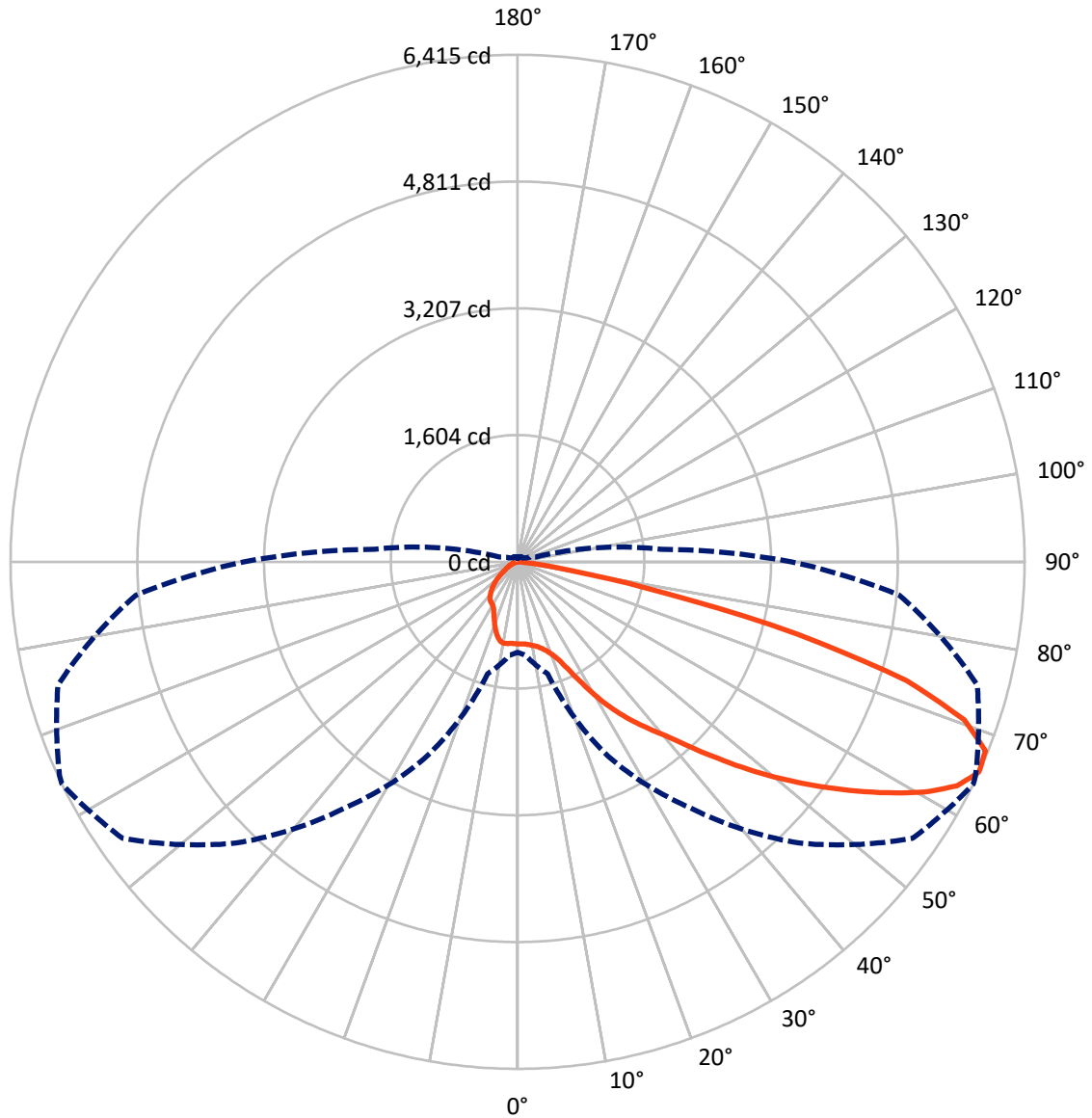
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.6 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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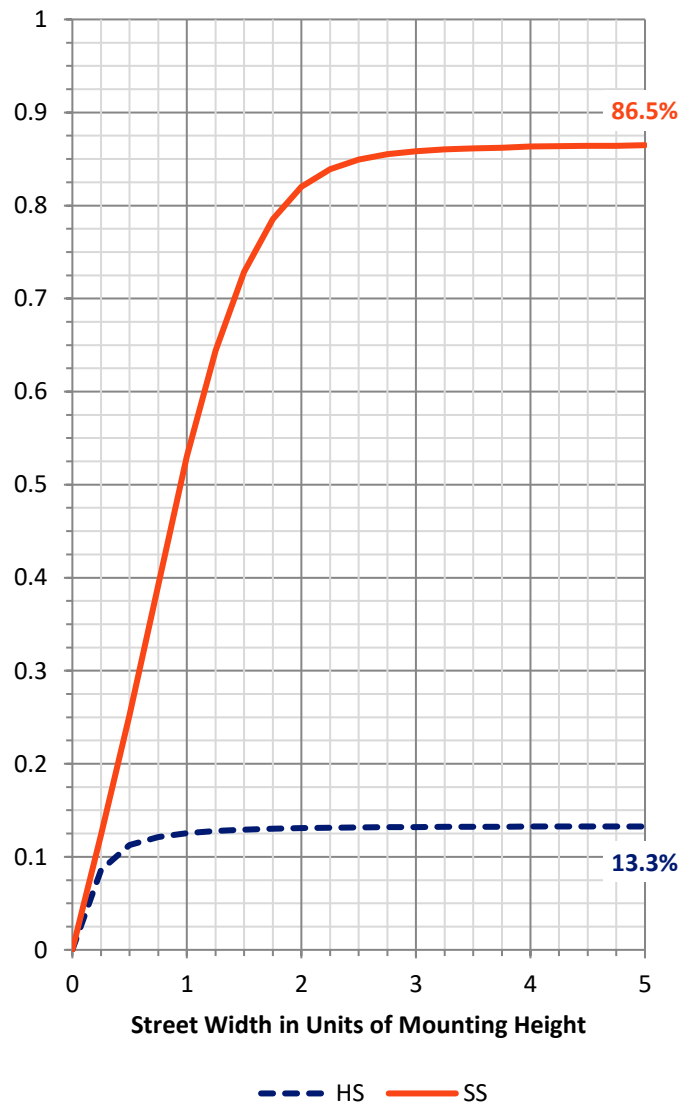
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1195.3	0.0	1195.3
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	7742.7	0.0	7742.7
	% Fixture	86.6	0.0	86.6
Total	Lumens	8938.0	0.0	8938.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	95.9	1.1
10°-20°	260.1	2.9
20°-30°	492.9	5.5
30°-40°	997.5	11.2
40°-50°	1699.2	19.0
50°-60°	2310.8	25.9
60°-70°	2170.0	24.3
70°-80°	869.4	9.7
80°-90°	42.1	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°	8938.0	100.0
0°-180°	8938.0	100.0

Coefficient of Utilization



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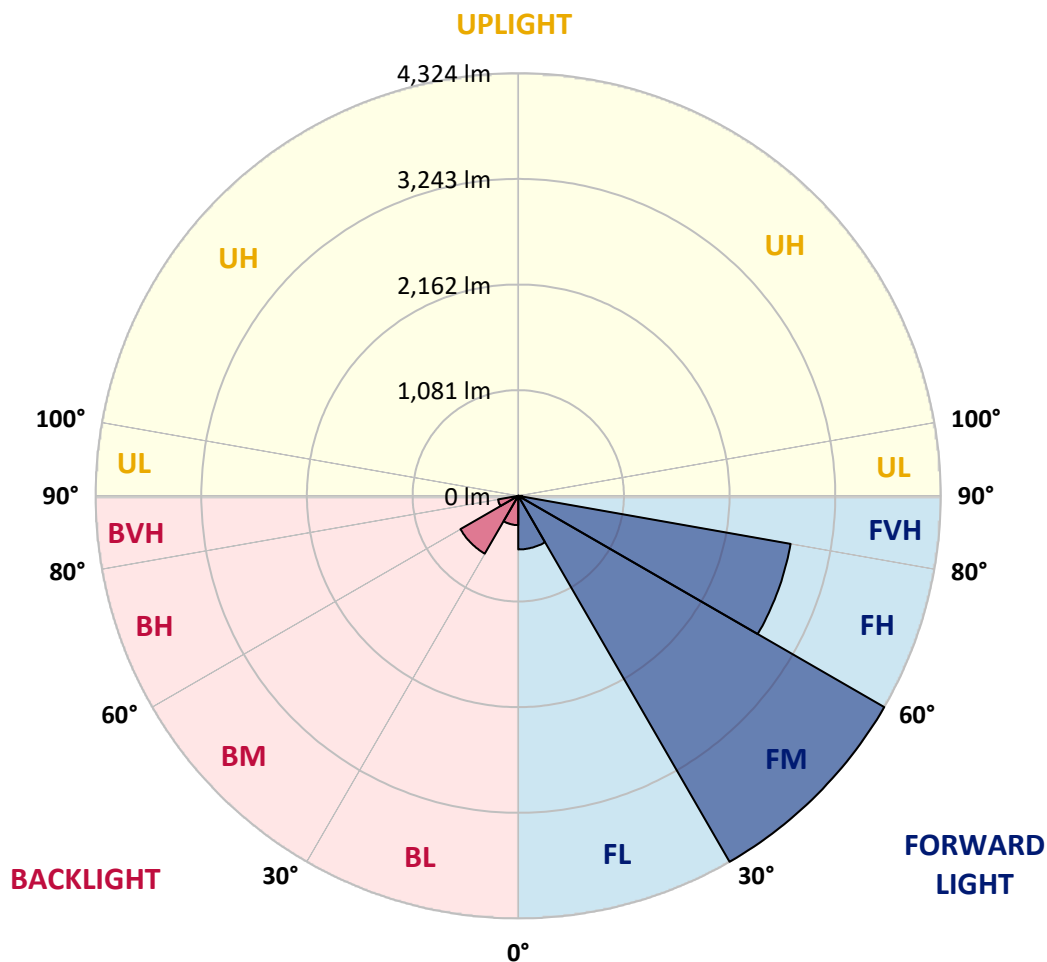
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	548.9	6.1			
FM (30°-60°)	4324.2	48.4			
FH (60°-80°)	2829.6	31.7			G2/5000
FVH (80°-90°)	40.1	0.4			G1/100
BL (0°-30°)	300.1	3.4	B1/500		
BM (30°-60°)	683.3	7.6	B1/1000		
BH (60°-80°)	209.8	2.3	B1/500		G1/500
BVH (80°-90°)	2.1	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°	1039.6	1039.6	1039.6	1039.6	1039.6	1039.6	1039.6	1039.6	1039.6	1039.6	1039.6
2.5°	1036.0	1043.1	1041.4	1039.6	1038.9	1040.2	1040.8	1040.2	1040.2	1040.2	1040.8
5°	1016.2	1022.2	1022.2	1026.4	1032.4	1039.6	1045.0	1046.2	1047.3	1049.2	1048.6
7.5°	978.5	983.3	986.9	1000.6	1015.6	1034.7	1050.9	1059.3	1060.6	1067.1	1069.6
10°	952.7	958.7	964.7	979.1	1000.6	1029.4	1057.0	1077.4	1080.4	1095.9	1103.1
12.5°	951.5	957.5	965.2	980.8	1006.0	1036.6	1070.1	1099.5	1104.8	1127.7	1142.7
15°	964.1	971.3	978.5	997.6	1024.6	1061.8	1097.7	1134.3	1139.6	1172.0	1188.2
17.5°	989.8	999.5	1004.8	1024.0	1052.8	1094.1	1141.4	1183.4	1188.2	1225.9	1246.3
20°	1040.8	1052.2	1054.0	1069.6	1097.7	1142.1	1198.3	1250.5	1256.4	1299.6	1322.4
22.5°	1146.3	1162.5	1148.0	1155.8	1181.0	1225.3	1286.5	1352.4	1360.8	1409.9	1430.3
25°	1332.0	1354.7	1317.6	1304.4	1315.2	1361.3	1438.1	1521.3	1530.9	1570.5	1580.7
27.5°	1696.9	1667.6	1611.2	1556.1	1523.8	1550.1	1636.4	1739.4	1751.4	1789.8	1777.8
30°	2097.8	2071.9	1995.9	1873.6	1796.9	1792.7	1872.5	1987.5	2001.3	2037.8	2001.3
32.5°	2499.2	2474.7	2391.9	2241.6	2108.5	2042.6	2097.8	2225.4	2232.6	2255.9	2202.0
35°	2894.1	2868.9	2786.2	2632.2	2468.6	2318.9	2308.1	2451.9	2454.3	2478.9	2398.5
37.5°	3291.3	3270.4	3182.2	3031.2	2870.1	2663.4	2563.3	2666.3	2669.4	2693.3	2610.1
40°	3574.7	3583.7	3523.2	3406.4	3267.9	3042.1	2849.7	2894.7	2876.7	2916.8	2867.1
42.5°	3818.0	3836.0	3783.3	3724.5	3644.2	3445.3	3204.5	3196.7	3167.9	3189.5	3137.9
45°	4028.4	4043.3	3996.0	3982.1	3980.4	3840.8	3592.1	3545.4	3505.2	3501.0	3439.3
47.5°	4105.6	4134.3	4154.7	4200.9	4290.8	4232.0	3993.0	3920.4	3875.5	3842.5	3744.9
50°	4135.0	4165.5	4235.0	4369.3	4582.0	4607.1	4392.0	4310.5	4255.4	4195.4	4051.7
52.5°	4095.4	4149.9	4243.4	4469.3	4777.9	4907.9	4774.9	4703.6	4640.7	4543.0	4329.7
55°	3862.3	3916.8	4108.0	4468.1	4875.5	5118.8	5136.8	5105.0	5034.3	4880.3	4554.4
57.5°	3371.0	3451.9	3754.5	4315.9	4873.8	5300.4	5491.5	5514.3	5435.2	5214.7	4731.2
60°	2690.3	2800.0	3169.1	3978.5	4723.4	5398.7	5802.5	5916.3	5832.5	5544.2	4874.4
62.5°	1877.3	2004.3	2353.6	3450.0	4379.4	5328.0	6029.6	6239.9	6176.3	5839.0	4929.4
65°	1145.0	1185.8	1467.4	2714.9	3794.7	5031.9	6099.7	6414.9	6393.8	6019.4	4847.9
67.5°	762.8	796.9	877.8	1861.7	2945.5	4440.5	5931.9	6384.3	6390.3	5990.0	4549.6
70°	459.6	488.9	541.7	1082.7	1909.0	3514.8	5412.4	5994.8	6029.6	5597.5	3984.0
72.5°	189.3	209.1	257.1	490.8	988.6	2230.7	4309.9	5146.9	5227.9	4706.6	3057.7
75°	107.2	117.5	151.0	246.3	429.1	1039.6	2610.7	3653.8	3773.0	3244.0	1839.5
77.5°	71.3	76.1	97.7	159.4	241.5	354.8	1115.7	1903.6	2131.3	1771.8	796.3
80°	48.0	52.2	67.1	106.7	157.0	152.2	355.3	705.2	867.7	608.7	194.1
82.5°	32.4	33.0	48.0	70.1	99.4	73.7	104.9	219.4	275.6	176.2	73.7
85°	18.6	17.9	35.4	40.8	44.4	30.5	31.8	65.9	86.3	74.3	41.9
87.5°	2.4	3.6	13.7	10.8	5.9	6.6	6.6	11.4	16.8	17.9	9.0
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°	1039.6	1039.6	1039.6	1039.6	1039.6	1039.6	1039.6	1039.6	1039.6	1039.6	1039.6
2.5°	1040.8	1040.2	1038.4	1036.6	1032.4	1030.0	1031.1	1030.0	1029.4	1030.0	1032.4
5°	1048.6	1046.7	1042.0	1036.0	1027.6	1017.4	1010.9	1001.2	992.2	986.9	988.1
7.5°	1069.6	1067.7	1061.2	1044.4	1017.4	974.9	935.9	901.8	876.0	861.0	861.6
10°	1103.1	1100.1	1089.9	1052.8	982.1	889.2	811.9	747.7	705.8	686.0	684.3
12.5°	1142.7	1139.1	1121.0	1045.0	914.9	770.0	663.3	592.0	553.1	535.7	533.9
15°	1189.4	1184.6	1149.2	1007.8	817.3	638.2	540.5	487.2	462.0	446.4	447.0
17.5°	1247.5	1239.1	1170.2	952.1	711.2	537.5	464.9	424.9	402.6	387.7	386.4
20°	1323.0	1309.2	1186.9	885.6	613.6	474.0	414.0	380.5	363.7	350.5	348.1
22.5°	1428.4	1408.7	1207.3	813.6	544.7	430.2	376.3	351.7	337.9	323.0	320.5
25°	1559.0	1535.7	1232.6	747.2	497.3	392.5	348.7	328.3	312.2	294.8	293.0
27.5°	1741.8	1699.9	1262.5	692.7	456.5	360.1	323.6	300.8	282.2	267.8	264.9
30°	1945.6	1876.7	1288.8	659.7	419.4	330.2	290.6	267.8	250.4	240.3	238.5
32.5°	2138.5	2045.0	1306.3	645.3	385.9	296.0	254.6	230.1	216.9	213.9	215.7
35°	2320.6	2197.2	1304.4	631.5	355.9	261.9	219.4	194.1	184.0	185.7	185.7
37.5°	2530.3	2359.5	1291.8	610.0	331.4	230.7	188.7	166.6	157.5	158.2	160.6
40°	2774.3	2547.1	1284.0	569.2	304.4	201.9	163.6	145.7	139.0	136.6	136.0
42.5°	3034.3	2728.7	1285.2	523.1	270.8	176.2	146.2	131.2	125.3	123.4	122.8
45°	3295.5	2901.9	1287.1	475.2	235.4	156.4	133.7	121.1	117.5	115.0	115.0
47.5°	3541.2	3049.3	1253.5	423.6	200.7	141.4	123.4	115.0	112.0	109.1	109.1
50°	3770.1	3147.5	1172.6	363.7	173.1	129.5	115.6	109.7	106.7	103.6	103.6
52.5°	3948.0	3163.0	1038.9	302.0	154.0	120.4	110.8	105.5	101.9	98.9	98.3
55°	4027.1	3065.5	849.0	244.5	139.0	112.6	106.1	100.7	96.5	93.5	92.9
57.5°	4006.7	2859.9	662.0	196.5	124.6	104.9	100.0	96.5	91.6	86.9	86.3
60°	3906.7	2584.8	499.1	163.6	111.4	96.5	93.5	90.5	83.8	76.7	75.5
62.5°	3733.5	2239.1	355.9	135.4	97.1	86.9	85.7	83.3	73.7	60.5	59.3
65°	3468.7	1819.2	239.6	112.6	83.3	76.1	76.7	72.5	60.0	44.9	43.8
67.5°	3081.6	1330.1	153.3	92.2	69.5	63.6	64.1	61.7	50.9	38.3	36.6
70°	2588.4	880.8	100.0	70.1	55.8	49.1	52.7	53.3	43.2	31.2	29.9
72.5°	1897.6	520.1	70.1	52.2	40.8	34.1	43.2	44.4	34.7	23.4	22.1
75°	1081.5	246.8	52.7	37.7	25.2	24.0	33.5	33.5	24.0	15.6	14.3
77.5°	454.2	103.0	37.1	24.6	14.3	13.7	22.8	21.0	12.0	7.2	7.2
80°	131.2	46.1	19.8	12.0	5.9	5.4	9.0	6.6	3.0	1.2	1.2
82.5°	51.6	20.4	7.8	4.8	2.4	2.4	1.2	0.0	0.0	0.0	0.0
85°	30.5	8.4	3.6	1.8	0.6	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	7.8	1.8	1.2	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)