

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: P961405

Luminaire Tested: **NAV-SB2A-735-U-T2-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P961405
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-4)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB2A-735-U-T2-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 3500K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6714.8 lumens
Efficiency: N/A
Efficacy: 117.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G2

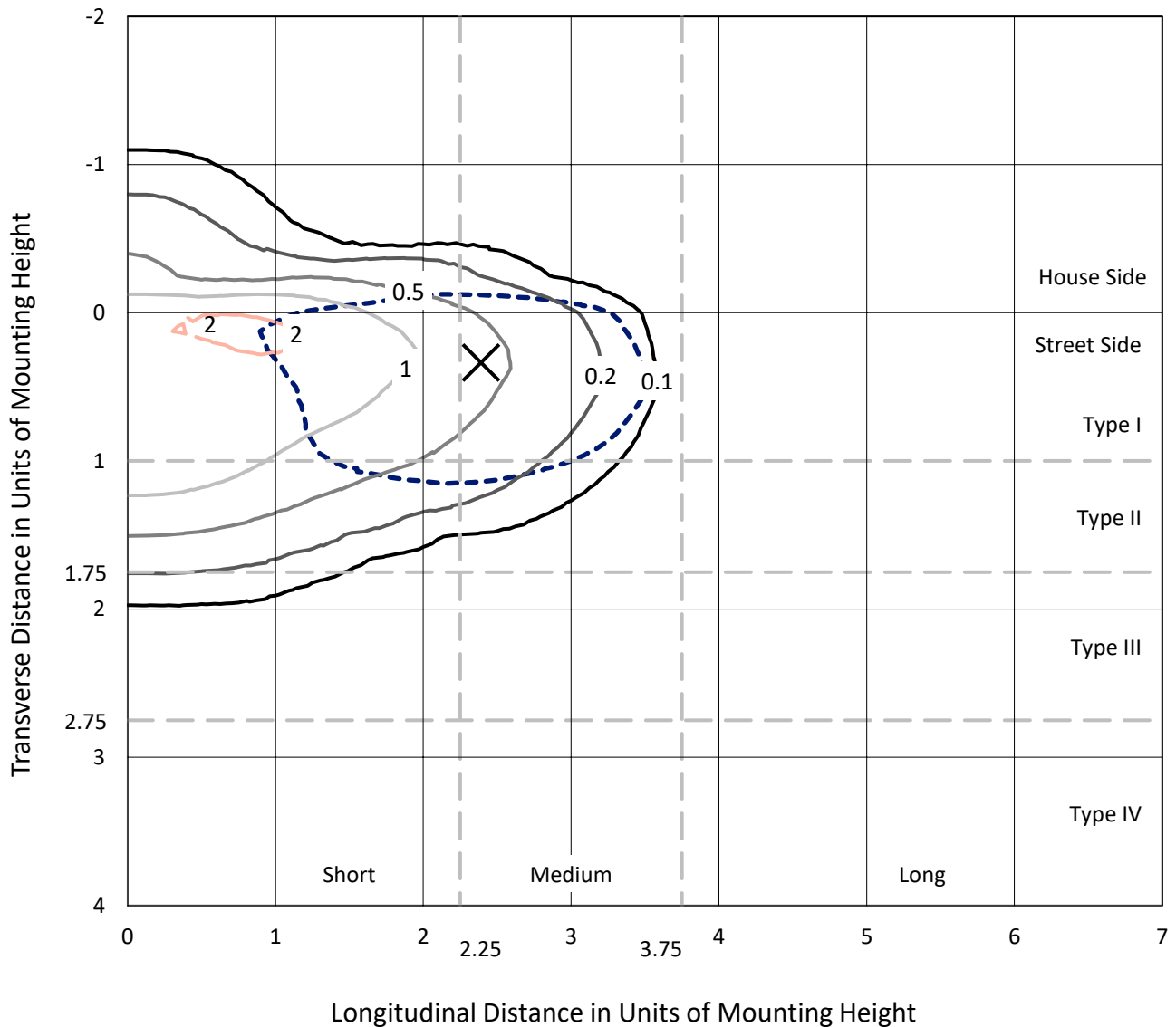
Input Watts (W): 57.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P961405
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Iso-Footcandle Lines of Horizontal Illumination

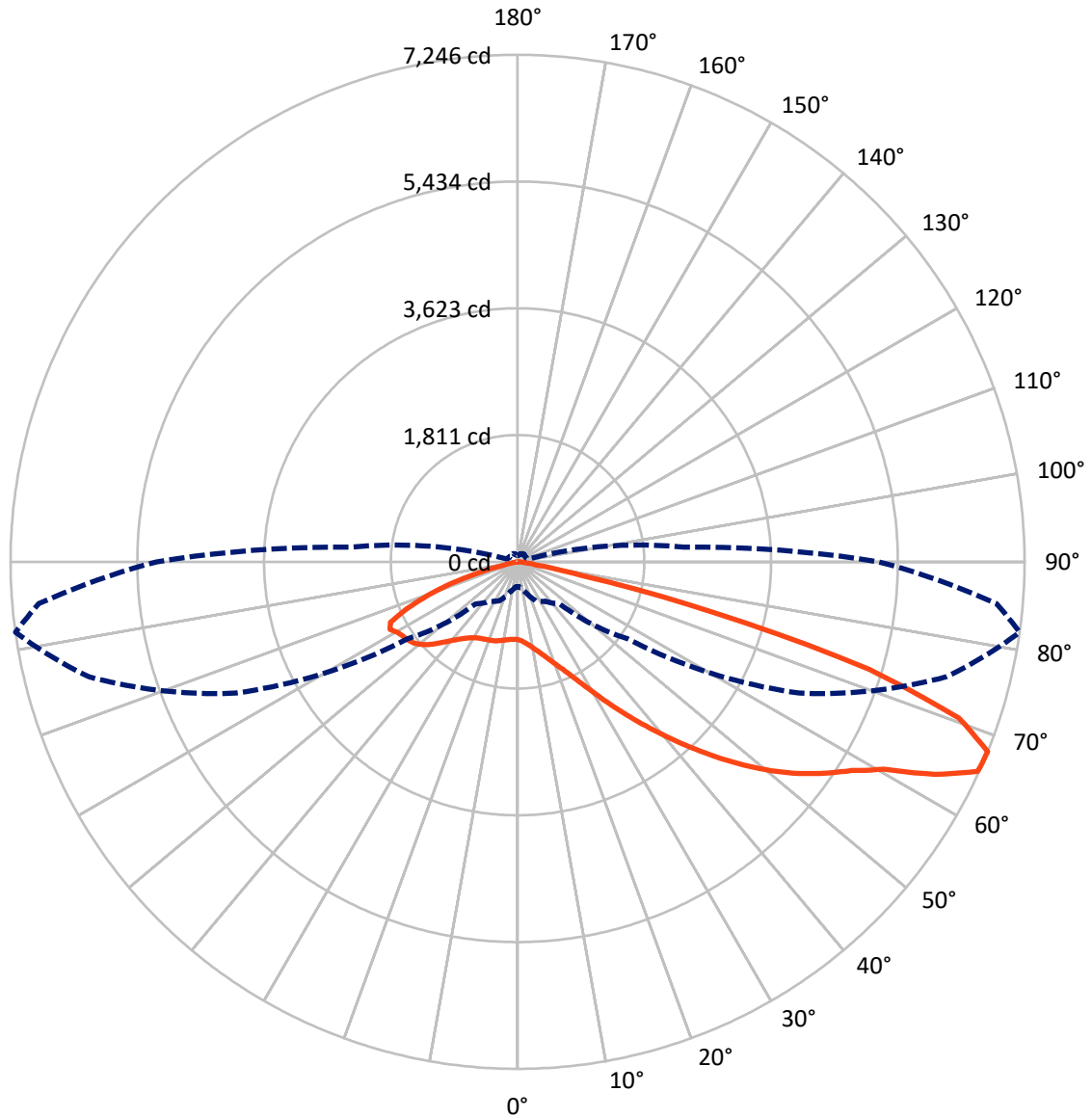
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.4 fc
 Type II - Medium - N/A

REPORT NUMBER: P961405
CATALOG NUMBER: NAV-SB2A-735-U-T2-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 82-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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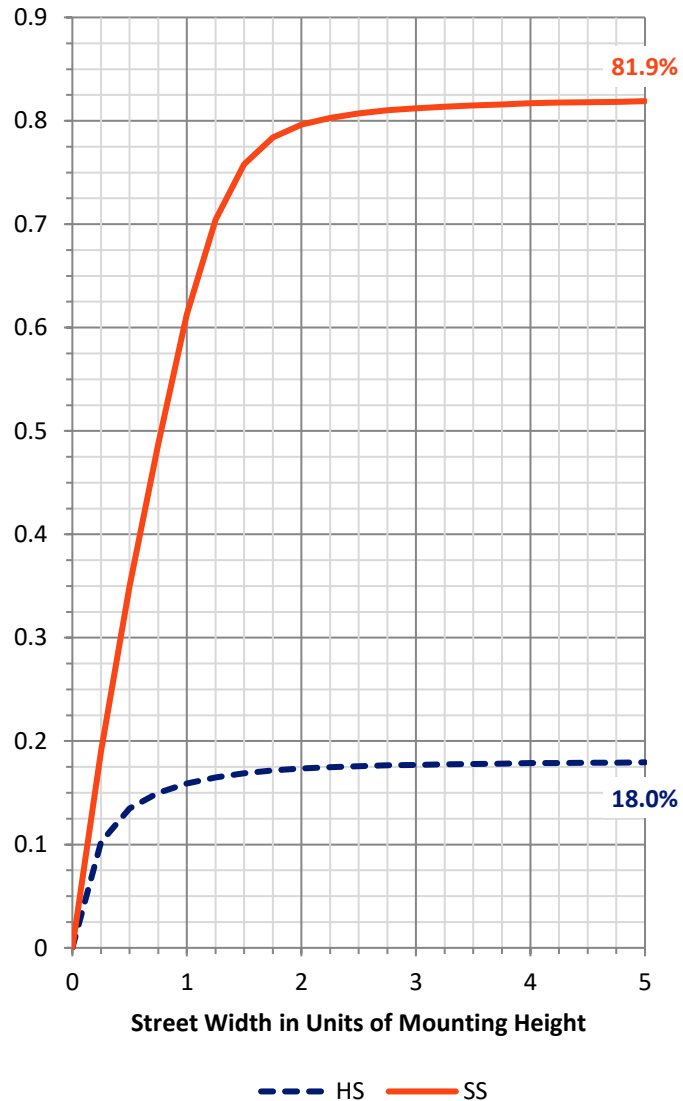
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1216.3	0.0	1216.3
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	5498.5	0.0	5498.5
	% Fixture	81.9	0.0	81.9
Total	Lumens	6714.8	0.0	6714.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	99.1	1.5
10°-20°	257.5	3.8
20°-30°	412.5	6.1
30°-40°	729.4	10.9
40°-50°	1278.0	19.0
50°-60°	1704.5	25.4
60°-70°	1586.8	23.6
70°-80°	609.0	9.1
80°-90°	37.8	0.6
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°	6714.8	100.0
0°-180°	6714.8	100.0

Coefficient of Utilization

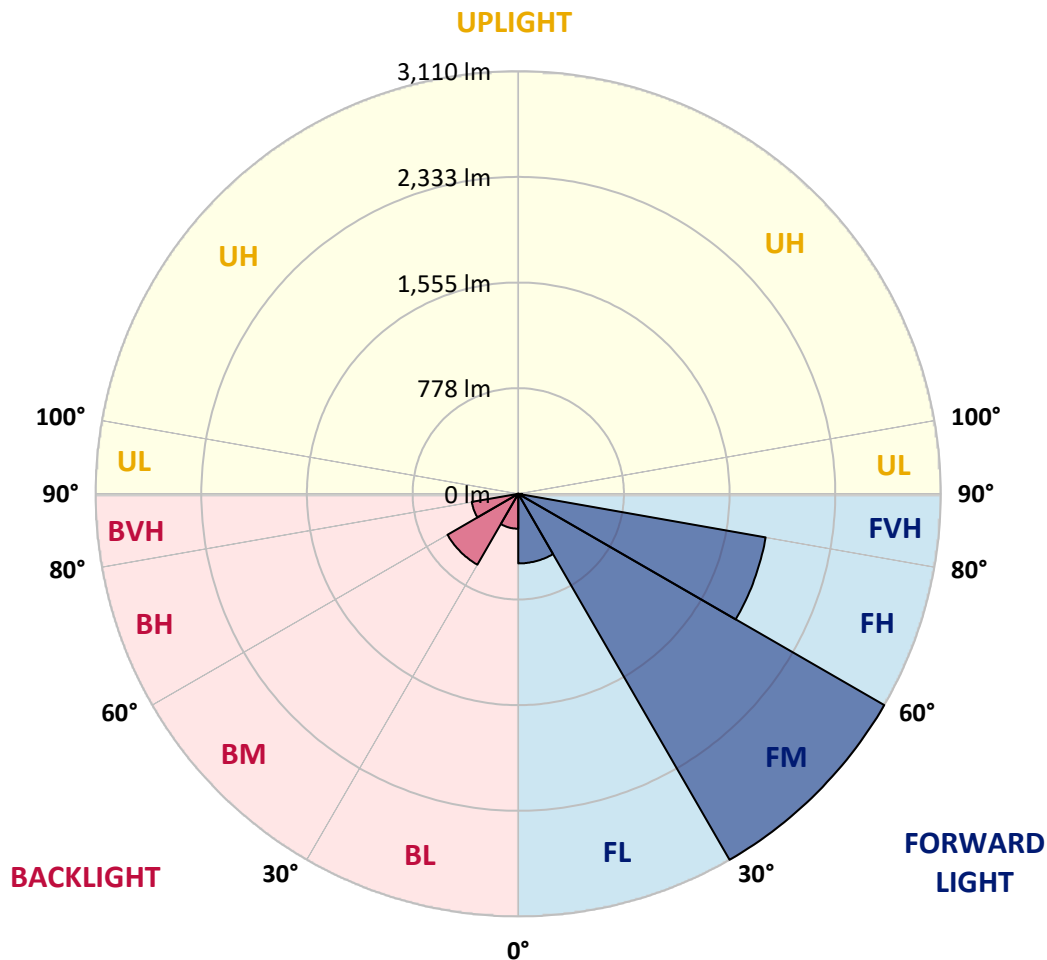


REPORT NUMBER: P961405
 CATALOG NUMBER: NAV-SB2A-735-U-T2-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	512.3	7.6			
FM (30°-60°)	3110.0	46.3			
FH (60°-80°)	1848.7	27.5			G2/5000
FVH (80°-90°)	27.5	0.4			G1/100
BL (0°-30°)	256.9	3.8	B1/500		
BM (30°-60°)	602.0	9.0	B1/1000		
BH (60°-80°)	347.2	5.2	B1/500		G1/500
BVH (80°-90°)	10.3	0.2			G1/100
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



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°	85°
0°	1112.4	1112.4	1112.4	1112.4	1112.4	1112.4	1112.4	1112.4	1112.4	1112.4	1112.4
2.5°	1175.8	1182.5	1178.6	1176.7	1173.3	1168.5	1164.6	1152.5	1140.0	1131.7	1128.8
5°	1199.5	1206.2	1205.7	1207.7	1210.1	1211.6	1210.5	1197.0	1179.2	1165.1	1156.9
7.5°	1179.2	1186.8	1193.1	1202.8	1219.8	1237.6	1246.3	1243.4	1225.1	1205.7	1195.6
10°	1121.6	1129.9	1144.8	1167.5	1203.4	1242.0	1274.4	1289.3	1277.8	1256.4	1242.5
12.5°	1016.2	1024.4	1053.9	1103.2	1163.2	1230.4	1292.2	1332.4	1335.3	1314.0	1297.5
15°	897.8	906.0	937.4	999.3	1090.7	1198.4	1302.0	1377.8	1403.4	1385.1	1365.3
17.5°	824.3	831.5	855.3	905.0	1000.3	1134.7	1298.6	1426.2	1484.7	1470.2	1446.5
20°	802.1	808.3	819.5	854.2	933.6	1068.5	1276.3	1471.6	1572.1	1563.9	1537.4
22.5°	825.7	831.5	834.9	850.3	900.2	1024.9	1248.2	1518.0	1673.7	1674.6	1642.3
25°	880.4	886.1	882.3	892.0	913.7	1011.4	1237.6	1572.7	1801.3	1812.0	1775.2
27.5°	970.3	970.8	961.6	961.1	964.5	1031.7	1248.8	1631.2	1962.3	1982.1	1936.7
30°	1150.6	1143.4	1108.0	1069.9	1052.5	1092.5	1279.7	1700.3	2152.3	2187.6	2130.6
32.5°	1428.5	1418.0	1353.2	1261.8	1169.9	1190.7	1335.3	1779.1	2359.2	2423.0	2353.4
35°	1730.3	1727.3	1659.7	1523.9	1363.4	1330.4	1425.7	1882.5	2584.9	2686.5	2603.8
37.5°	2010.6	2009.2	1970.6	1810.5	1615.2	1525.3	1570.7	2017.9	2826.7	2973.7	2876.0
40°	2266.9	2271.2	2232.6	2089.5	1892.7	1775.2	1767.9	2185.2	3095.5	3286.5	3170.4
42.5°	2488.3	2493.1	2454.0	2348.1	2166.8	2051.7	2010.1	2390.2	3358.0	3622.5	3485.2
45°	2638.7	2668.6	2662.8	2578.2	2448.2	2328.8	2301.2	2647.4	3657.3	3978.7	3817.8
47.5°	2681.2	2708.8	2752.2	2763.9	2684.6	2567.1	2600.0	2957.2	3959.9	4335.5	4152.3
50°	2576.3	2601.9	2692.3	2812.7	2867.8	2831.6	2890.5	3289.3	4269.8	4691.3	4480.6
52.5°	2369.4	2395.5	2509.6	2700.1	2924.8	3038.9	3182.0	3616.7	4570.1	5028.3	4791.5
55°	2070.1	2097.7	2244.1	2459.8	2816.1	3124.5	3425.2	3943.5	4845.1	5331.4	5071.8
57.5°	1663.1	1683.4	1835.7	2137.3	2542.4	3039.4	3604.6	4300.3	5104.2	5629.3	5349.8
60°	1083.9	1101.8	1278.7	1615.2	2089.0	2755.2	3640.4	4698.1	5448.5	6016.5	5724.5
62.5°	720.8	732.9	837.8	1084.9	1471.1	2209.4	3431.0	5015.7	5953.2	6690.4	6367.0
65°	494.6	506.7	611.5	783.7	950.5	1461.4	2829.1	4973.7	6410.6	7225.6	6843.2
67.5°	352.9	363.1	452.0	614.5	688.0	848.9	1917.9	4436.1	6344.7	7245.9	6868.8
70°	252.9	258.6	332.1	478.6	546.7	510.0	1066.5	3392.9	5555.3	6690.9	6345.7
72.5°	176.9	178.9	230.6	364.5	440.4	372.3	507.6	2262.1	4201.7	5251.7	4919.6
75°	119.9	122.3	155.2	267.3	353.4	284.2	268.8	1213.0	2466.6	2907.0	2605.8
77.5°	73.5	74.4	100.0	182.8	264.4	216.6	173.1	513.9	954.3	937.0	798.7
80°	41.6	41.6	63.9	113.6	180.3	139.7	121.4	218.5	302.2	265.4	234.0
82.5°	23.2	23.7	46.4	70.6	119.4	82.7	66.7	101.1	130.5	115.5	100.6
85°	9.6	10.7	28.5	33.3	57.1	41.1	27.1	42.5	48.4	43.0	31.5
87.5°	0.9	1.4	8.7	6.3	6.8	8.2	3.9	8.2	6.8	6.8	4.8
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: P961405
 CATALOG NUMBER: NAV-SB2A-735-U-T2-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1112.4	1112.4	1112.4	1112.4	1112.4	1112.4	1112.4	1112.4	1112.4	1112.4	1112.4
2.5°	1119.7	1112.4	1094.1	1072.8	1044.7	1031.1	1012.8	1000.3	989.6	990.6	980.9
5°	1141.4	1123.1	1082.0	1030.7	966.9	921.5	873.1	839.8	812.7	806.9	793.9
7.5°	1171.4	1142.4	1070.3	978.1	870.2	788.5	715.4	668.6	635.3	624.6	614.0
10°	1210.1	1168.0	1055.3	911.7	756.6	652.6	574.3	537.6	514.9	507.2	501.3
12.5°	1255.0	1197.5	1035.6	831.1	639.6	539.6	489.7	471.4	464.1	461.7	460.2
15°	1311.6	1234.2	1005.5	735.3	540.5	470.4	449.2	446.7	447.7	446.7	446.2
17.5°	1378.8	1274.4	956.7	636.7	473.8	435.1	427.3	429.3	431.7	431.2	430.3
20°	1452.3	1314.0	894.4	549.2	428.3	410.0	405.6	407.5	409.5	408.5	408.1
22.5°	1535.9	1356.6	825.2	481.0	397.9	386.7	381.9	382.4	382.4	380.5	379.5
25°	1636.0	1403.4	752.8	432.7	374.6	365.9	360.2	358.2	355.4	349.5	348.6
27.5°	1755.4	1453.2	683.1	398.8	356.3	348.1	341.3	336.5	329.2	319.6	318.6
30°	1889.8	1513.7	624.1	377.6	341.8	333.5	325.8	318.6	307.9	295.9	294.9
32.5°	2047.8	1578.5	581.1	363.6	328.7	320.0	310.9	302.2	290.6	278.5	278.9
35°	2236.4	1656.8	556.0	353.9	318.6	307.0	296.8	287.2	278.5	267.8	266.9
37.5°	2440.9	1739.9	548.3	349.0	311.8	294.0	282.3	275.5	274.6	268.3	267.8
40°	2664.8	1838.5	554.0	346.1	304.5	281.4	268.8	267.3	269.8	258.6	259.1
42.5°	2901.7	1955.5	563.8	342.8	294.4	268.8	256.7	256.7	254.8	239.3	239.3
45°	3157.9	2090.4	573.4	334.6	282.3	256.2	247.0	243.6	235.4	220.5	220.0
47.5°	3416.0	2227.7	580.7	319.6	267.8	245.6	237.4	229.6	217.5	204.0	203.6
50°	3661.1	2351.0	572.9	297.4	251.4	235.4	226.7	216.1	203.1	193.8	192.4
52.5°	3880.1	2457.8	540.0	271.2	234.0	224.8	217.1	205.9	195.3	185.6	184.7
55°	4070.6	2544.4	482.0	246.5	218.5	215.7	207.9	193.8	179.4	171.2	170.1
57.5°	4253.3	2610.2	409.5	226.2	204.5	205.5	193.8	181.3	167.8	159.1	158.1
60°	4496.6	2698.1	336.0	207.4	189.5	192.4	179.9	170.7	153.8	142.6	141.1
62.5°	4885.3	2834.9	266.9	184.2	172.1	173.1	167.8	156.6	136.3	123.3	122.3
65°	5193.7	2784.6	210.3	159.1	152.3	153.8	153.8	141.7	119.9	104.9	103.4
67.5°	5158.8	2384.4	167.8	134.4	133.5	134.4	137.8	127.6	106.4	94.3	92.4
70°	4752.3	1896.6	134.4	111.7	116.0	113.6	123.3	116.5	95.7	83.6	82.2
72.5°	3877.7	1366.2	102.5	92.4	89.0	92.9	111.2	104.9	79.7	66.2	64.8
75°	2265.9	729.1	76.4	73.0	64.3	77.4	98.6	89.5	60.9	48.8	47.4
77.5°	737.7	254.3	56.1	53.7	47.9	62.3	84.2	75.4	49.8	38.6	37.2
80°	197.7	76.9	38.2	35.3	31.0	46.4	66.7	60.0	35.8	25.1	24.7
82.5°	79.3	32.4	22.2	19.8	16.9	31.9	52.7	48.4	26.5	16.0	16.0
85°	25.6	10.7	8.2	6.3	7.7	19.8	31.5	32.9	18.9	8.2	6.3
87.5°	3.4	1.4	1.4	1.9	1.4	3.4	9.6	9.2	5.3	0.9	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)