

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: P961904

Luminaire Tested: **NAV-SB2B-730-U-T2U-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P961904
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-730-U-T2U-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 3000K, 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: 8821.2 lumens
Efficiency: N/A
Efficacy: 119.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

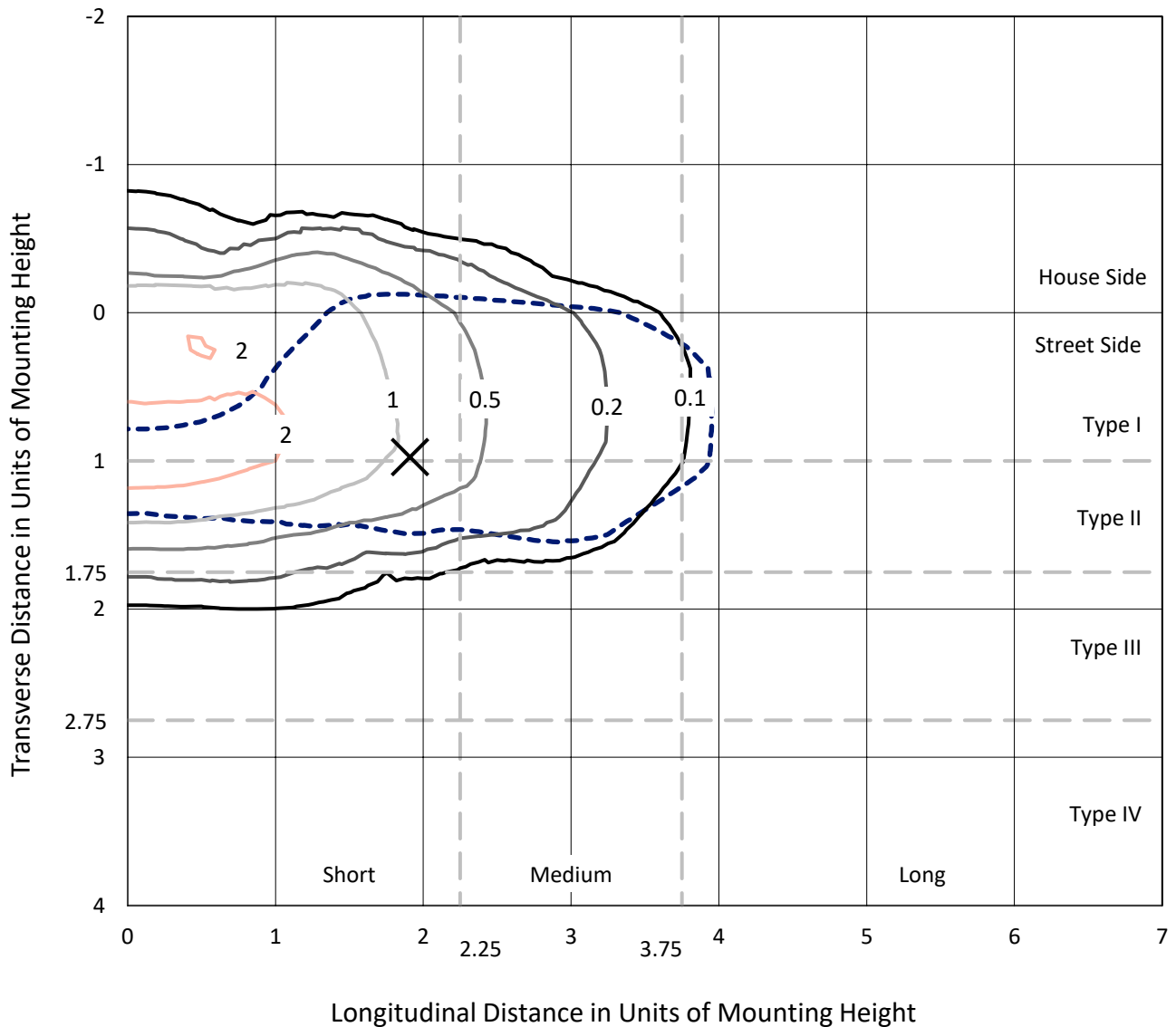
Input Watts (W): 73.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

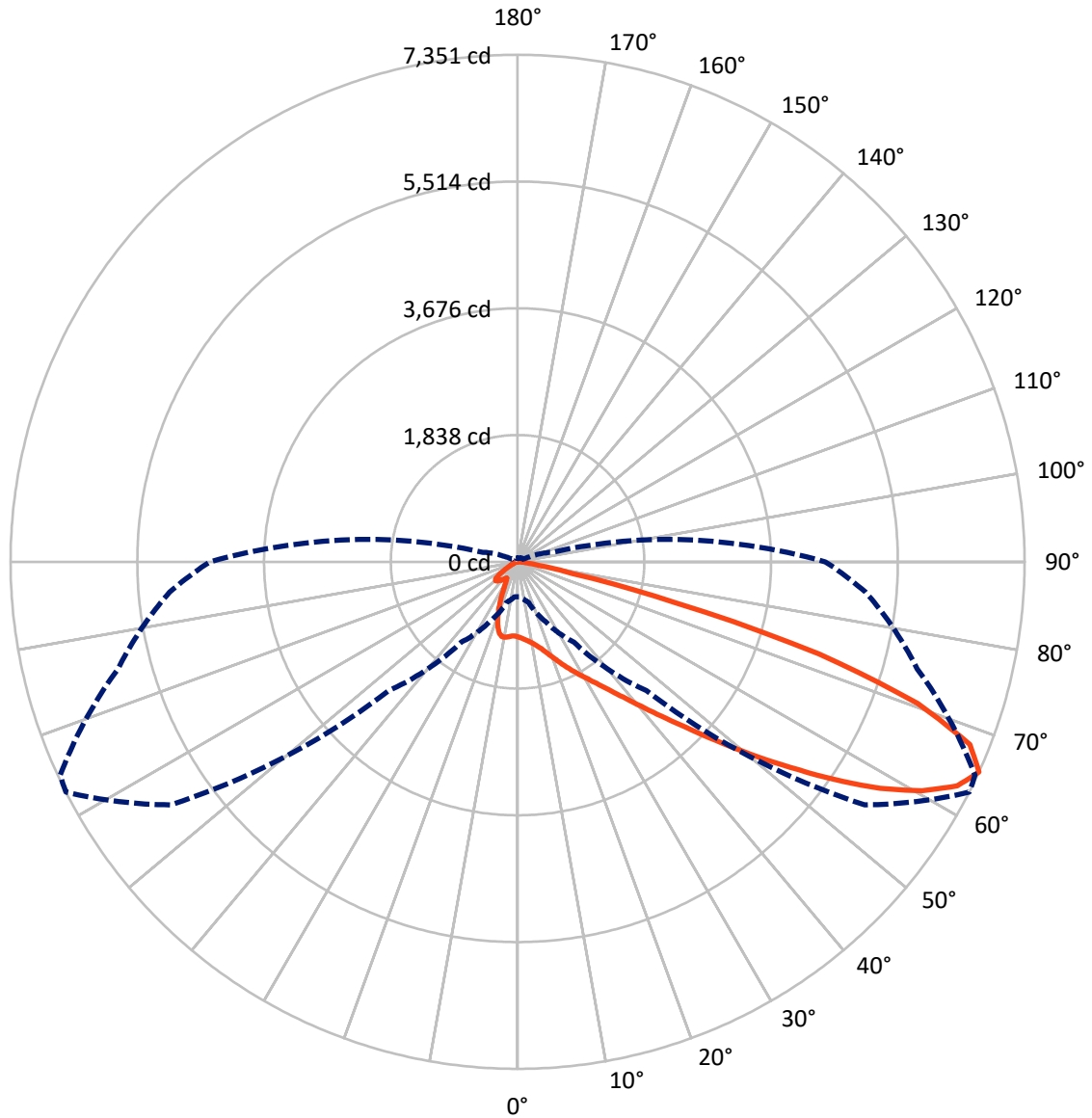
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3 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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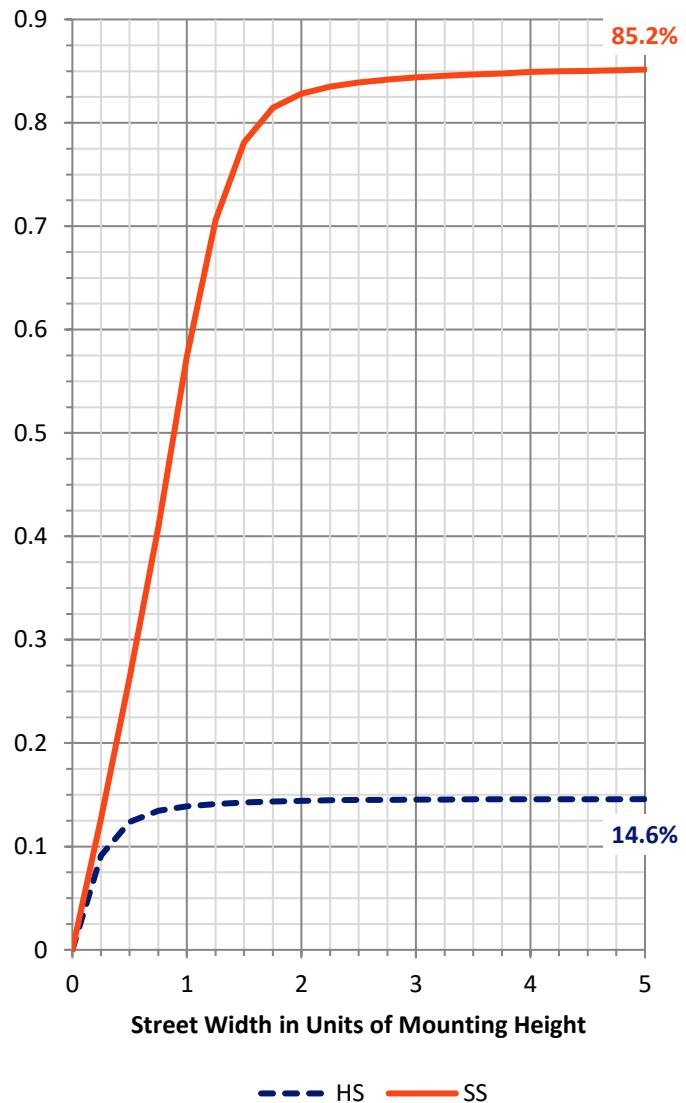
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1296.6	0.0	1296.6
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	7524.5	0.0	7524.5
	% Fixture	85.3	0.0	85.3
Total	Lumens	8821.2	0.0	8821.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	102.6	1.2
10°-20°	284.6	3.2
20°-30°	495.6	5.6
30°-40°	893.2	10.1
40°-50°	1771.6	20.1
50°-60°	2413.2	27.4
60°-70°	1926.2	21.8
70°-80°	871.6	9.9
80°-90°	62.6	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°	8821.2	100.0
0°-180°	8821.2	100.0

Coefficient of Utilization

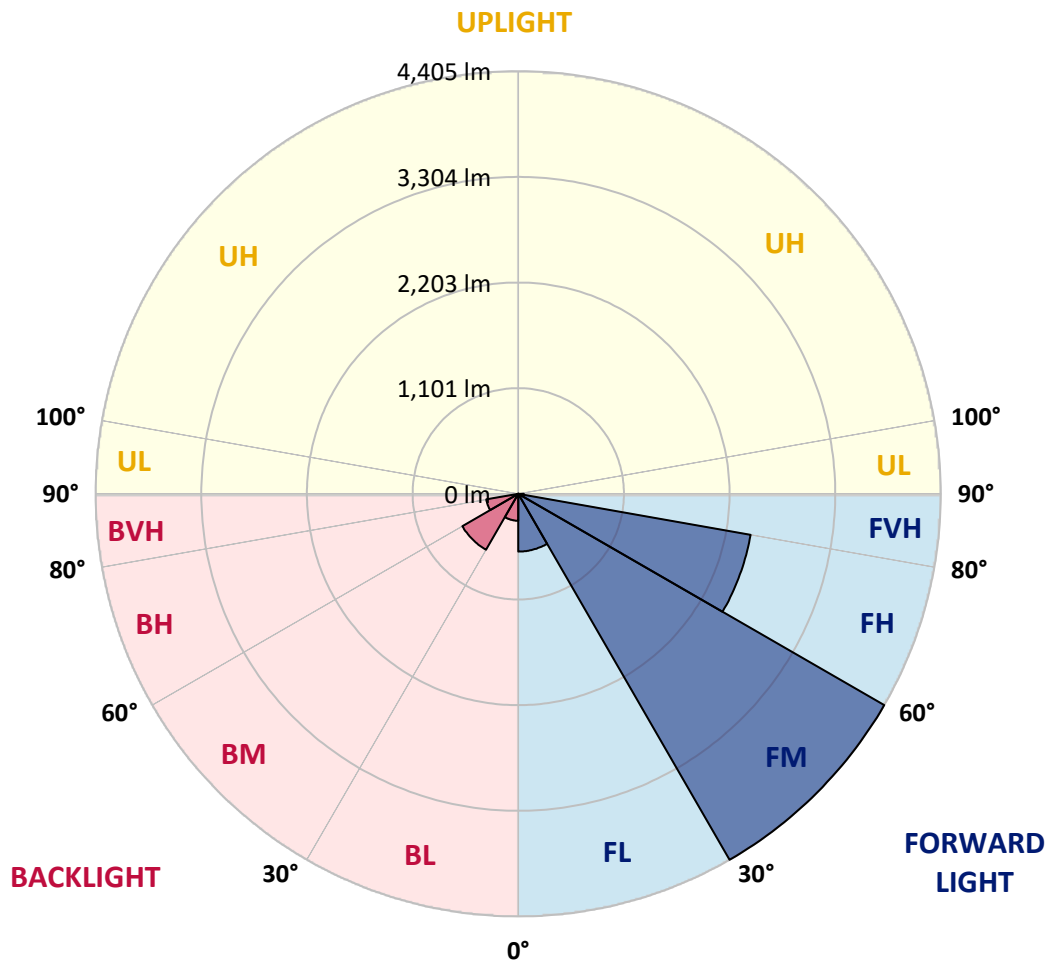


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	602.2	6.8			
FM (30°-60°)	4405.1	49.9			
FH (60°-80°)	2459.3	27.9			G2/5000
FVH (80°-90°)	58.0	0.7			G1/100
BL (0°-30°)	280.6	3.2	B1/500		
BM (30°-60°)	672.9	7.6	B1/1000		
BH (60°-80°)	338.5	3.8	B1/500		G1/500
BVH (80°-90°)	4.6	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°	1088.7	1088.7	1088.7	1088.7	1088.7	1088.7	1088.7	1088.7	1088.7	1088.7	1088.7
2.5°	1114.2	1111.1	1115.4	1113.6	1112.3	1110.0	1108.7	1107.5	1105.1	1103.3	1095.9
5°	1117.2	1115.4	1119.6	1123.3	1126.9	1130.6	1132.4	1134.8	1132.4	1127.5	1120.2
7.5°	1091.7	1090.5	1099.6	1110.6	1126.9	1140.9	1156.1	1164.5	1165.1	1163.4	1155.5
10°	1089.9	1086.9	1095.9	1109.4	1130.6	1155.5	1182.1	1200.4	1202.7	1210.6	1202.2
12.5°	1118.5	1115.4	1128.1	1142.7	1164.5	1190.6	1223.4	1248.9	1252.6	1263.5	1257.4
15°	1166.3	1162.1	1176.7	1195.5	1223.4	1253.2	1287.7	1310.8	1313.8	1327.2	1316.3
17.5°	1222.2	1218.0	1234.9	1255.0	1285.4	1325.9	1366.0	1391.5	1395.1	1403.6	1383.6
20°	1293.9	1288.3	1301.8	1319.9	1352.1	1400.7	1448.5	1485.0	1484.4	1484.4	1451.6
22.5°	1377.0	1368.5	1380.0	1394.5	1424.9	1483.8	1547.4	1590.6	1590.6	1573.6	1519.6
25°	1466.2	1457.7	1470.4	1483.8	1510.4	1577.2	1651.9	1705.3	1707.6	1678.5	1592.3
27.5°	1577.8	1566.9	1576.7	1592.3	1608.1	1676.2	1764.7	1826.7	1827.9	1783.0	1661.5
30°	1792.6	1761.7	1731.3	1714.3	1721.7	1789.0	1883.6	1952.2	1958.4	1896.5	1736.9
32.5°	2185.9	2179.9	2073.1	1933.5	1860.6	1910.4	2016.6	2099.1	2102.8	2023.2	1834.5
35°	2797.0	2789.7	2618.0	2352.2	2114.9	2073.1	2178.0	2275.7	2273.2	2183.5	1961.3
37.5°	3526.4	3519.7	3293.4	2937.8	2553.7	2318.8	2386.2	2488.7	2503.9	2386.2	2125.2
40°	4149.7	4124.8	3981.6	3638.6	3136.2	2726.6	2682.3	2750.3	2766.1	2626.5	2333.3
42.5°	4621.8	4600.6	4527.7	4313.5	3841.4	3329.8	3031.2	3057.4	3074.9	2907.4	2572.4
45°	4866.4	4861.5	4890.7	4870.6	4559.9	4070.2	3530.1	3421.4	3428.1	3218.7	2843.8
47.5°	4900.9	4898.6	5031.4	5219.5	5177.7	4905.2	4170.3	3875.4	3851.7	3570.1	3138.7
50°	4697.1	4692.2	4947.1	5299.7	5590.3	5606.7	4897.3	4387.0	4334.7	3933.6	3446.4
52.5°	4045.9	4044.6	4463.4	5050.3	5735.4	6220.8	5615.9	4948.9	4861.5	4318.3	3771.6
55°	3113.1	3135.6	3615.7	4309.3	5470.8	6516.4	6260.9	5572.7	5438.6	4705.6	4071.4
57.5°	2205.3	2238.1	2712.7	3330.4	4650.3	6341.7	6697.2	6197.8	6053.3	5091.5	4375.4
60°	1184.6	1213.7	1688.9	2426.2	3459.7	5689.9	6927.3	6740.3	6603.8	5458.0	4649.7
62.5°	705.8	715.4	912.1	1566.3	2340.1	4346.9	6829.6	7153.6	7041.3	5765.7	4888.2
65°	506.8	508.5	607.4	956.4	1420.6	2641.0	6144.4	7351.4	7316.9	5997.6	5064.8
67.5°	426.6	425.4	466.7	635.4	967.9	1323.0	4709.2	7071.7	7218.6	6144.4	5165.0
70°	365.9	367.8	416.3	465.5	727.6	748.9	2341.2	6157.2	6470.3	6183.2	5158.8
72.5°	272.4	278.6	323.5	424.1	549.2	515.3	808.3	4565.3	5131.6	5825.8	4891.2
75°	192.4	195.4	227.6	356.8	409.6	375.0	412.7	2360.1	3085.9	4466.4	4003.4
77.5°	148.1	153.5	172.3	249.4	403.5	263.4	252.5	816.8	1255.0	2698.1	2744.8
80°	80.2	89.8	124.4	180.2	283.4	186.3	125.0	325.2	425.4	1261.7	1058.3
82.5°	41.3	46.1	86.8	129.9	161.4	162.7	61.9	135.3	175.4	389.6	145.0
85°	16.4	20.0	58.2	71.6	83.1	80.2	27.9	54.6	63.1	108.0	44.3
87.5°	3.7	6.0	21.2	16.4	15.8	17.0	6.7	12.7	12.1	12.7	7.9
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°	1088.7	1088.7	1088.7	1088.7	1088.7	1088.7	1088.7	1088.7	1088.7	1088.7	1088.7
2.5°	1095.4	1093.0	1086.3	1079.0	1070.5	1065.6	1062.6	1062.0	1057.7	1054.7	1057.7
5°	1113.6	1111.1	1098.4	1083.2	1066.8	1054.1	1042.0	1031.0	1015.3	1012.2	1011.1
7.5°	1149.9	1143.3	1122.7	1102.1	1071.1	1034.1	989.1	937.6	891.4	877.5	870.8
10°	1194.9	1185.8	1159.7	1123.3	1054.7	954.0	845.3	744.6	664.5	642.1	633.6
12.5°	1245.9	1238.0	1203.4	1136.0	986.2	803.5	637.2	512.2	434.5	415.1	409.6
15°	1306.6	1295.0	1247.1	1116.6	863.6	610.5	437.6	363.5	335.6	332.0	328.3
17.5°	1370.8	1352.1	1286.0	1046.8	698.5	433.9	338.0	316.8	304.6	301.0	299.2
20°	1429.8	1405.5	1309.0	941.3	521.9	338.0	302.8	288.8	278.0	273.7	271.2
22.5°	1488.6	1454.1	1309.0	797.4	391.4	299.8	278.0	265.2	252.5	247.0	244.0
25°	1549.9	1503.8	1286.0	637.2	315.0	274.9	254.3	240.4	229.4	222.7	220.3
27.5°	1609.4	1545.7	1233.2	485.4	280.3	253.1	232.5	219.0	208.8	203.9	203.9
30°	1665.8	1586.9	1159.1	368.4	257.9	231.9	212.4	200.9	190.5	185.7	186.3
32.5°	1742.3	1639.1	1080.2	302.2	238.5	211.8	194.2	183.3	174.1	170.6	170.6
35°	1848.5	1716.2	1012.2	296.7	222.1	195.4	177.8	167.5	158.4	155.4	155.4
37.5°	1999.0	1840.6	976.4	333.1	208.8	180.8	164.4	153.5	145.0	142.6	142.0
40°	2184.7	2009.3	995.9	369.6	199.7	168.1	152.3	141.3	134.1	131.1	130.5
42.5°	2405.0	2217.5	1103.3	397.5	193.6	157.1	140.8	128.6	123.8	122.6	122.6
45°	2658.0	2446.3	1267.7	427.2	183.9	146.9	129.3	120.1	116.5	115.9	115.3
47.5°	2945.6	2697.5	1458.3	464.2	174.1	137.1	120.1	114.1	111.0	109.9	109.9
50°	3230.9	2950.6	1654.2	484.9	166.3	128.0	112.9	108.0	105.6	105.0	105.0
52.5°	3529.5	3210.9	1812.7	465.5	159.6	120.7	106.8	103.1	100.8	100.1	100.1
55°	3814.1	3421.4	1840.0	395.0	146.3	113.5	100.1	98.3	95.3	95.3	94.7
57.5°	4059.2	3527.0	1647.0	290.1	132.9	102.6	93.5	91.6	89.2	88.6	87.9
60°	4284.4	3496.7	1271.4	195.4	118.4	91.6	85.0	83.7	81.3	78.3	77.7
62.5°	4411.2	3363.2	869.6	127.4	103.7	80.2	75.2	74.6	69.2	63.1	61.9
65°	4459.2	3088.8	542.5	92.9	86.8	68.6	64.9	63.8	55.9	49.2	48.6
67.5°	4417.3	2637.4	273.7	73.4	68.6	57.1	53.4	53.4	48.0	41.9	41.3
70°	4249.8	1977.1	115.3	58.8	52.8	43.7	43.7	46.1	40.7	34.0	33.4
72.5°	3886.3	1330.2	61.3	44.9	39.5	31.0	35.8	37.6	32.2	25.5	25.5
75°	3089.5	811.4	42.4	33.4	24.9	21.8	27.3	28.5	21.8	17.0	16.4
77.5°	2113.0	466.1	28.5	21.2	15.8	12.7	18.9	17.6	11.5	7.9	8.5
80°	927.8	194.2	16.4	9.7	6.0	4.8	6.7	4.8	3.7	2.5	2.5
82.5°	108.6	45.5	6.0	3.7	2.5	1.2	0.6	0.0	0.0	0.0	0.0
85°	22.4	5.4	3.1	1.2	0.6	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	4.2	1.2	0.6	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)