

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: P959783

Luminaire Tested: **NAV-SB1B-730-U-SL2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P959783
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-10)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB1B-730-U-SL2
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 3000K, 450mA LIGHTSQUARE WITH 26 LEDS AND TYPE II SPILL LIGHT
ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5739 lumens
Efficiency: N/A
Efficacy: 144.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G1

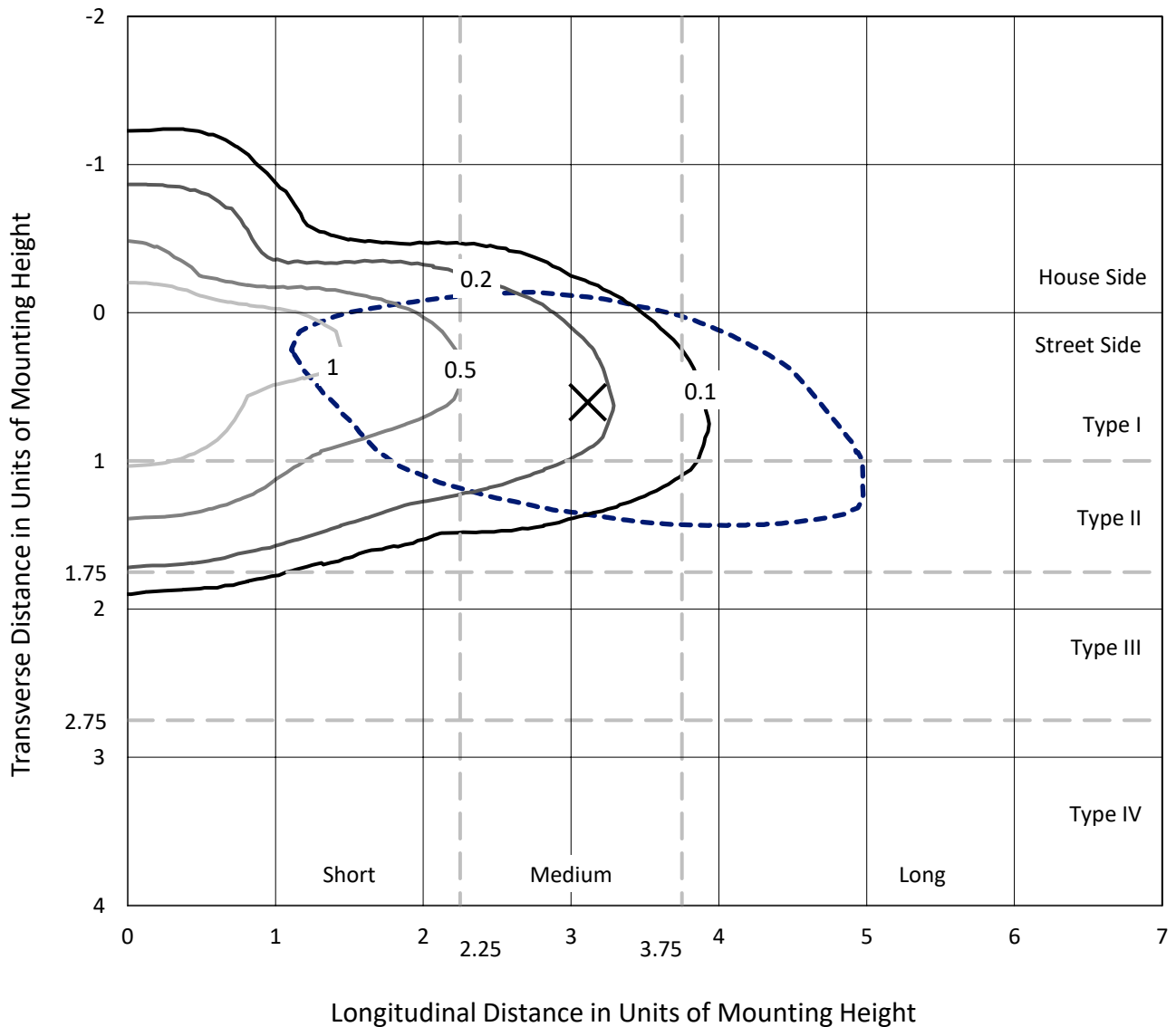
Input Watts (W): 39.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

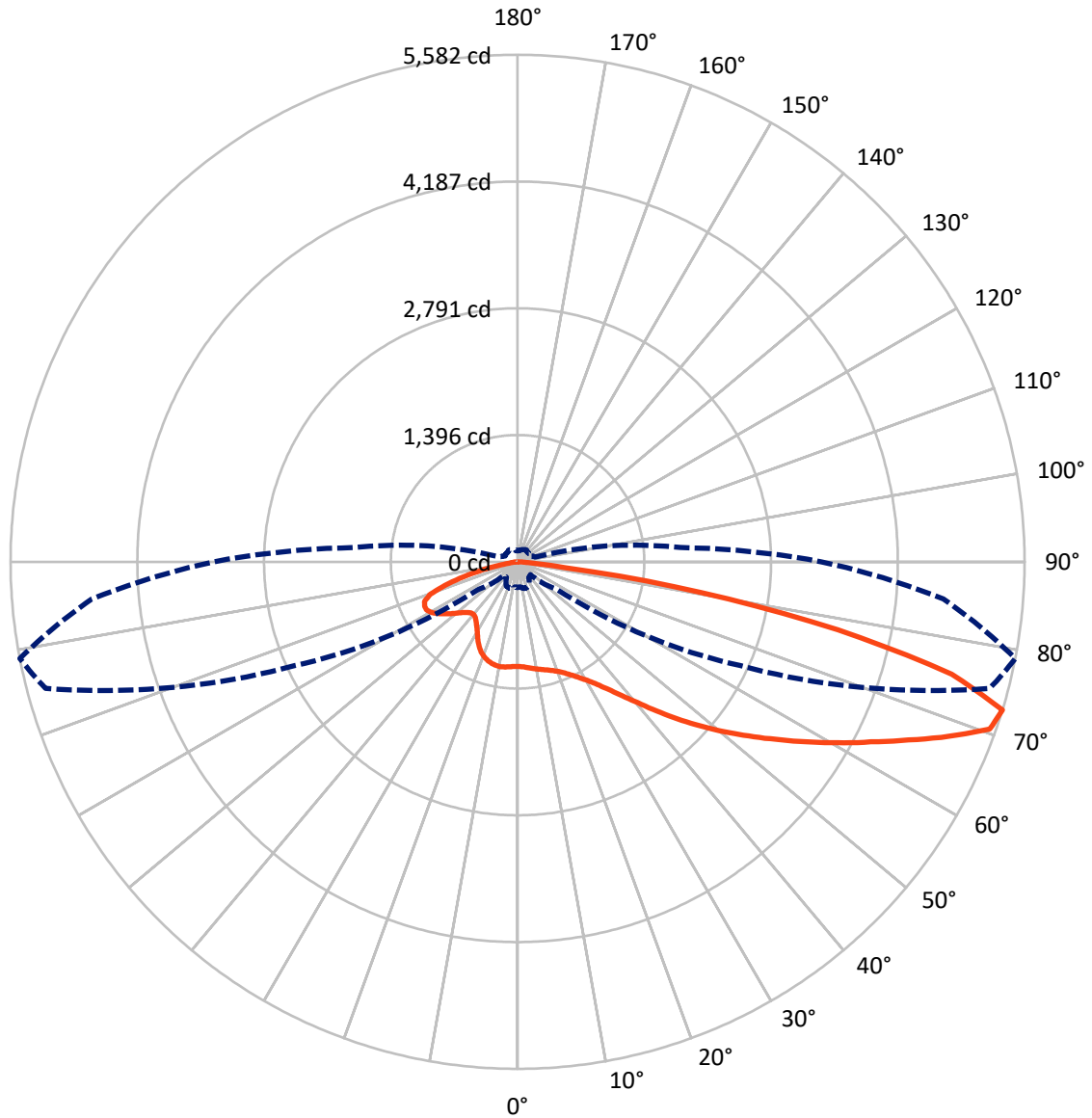
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.9 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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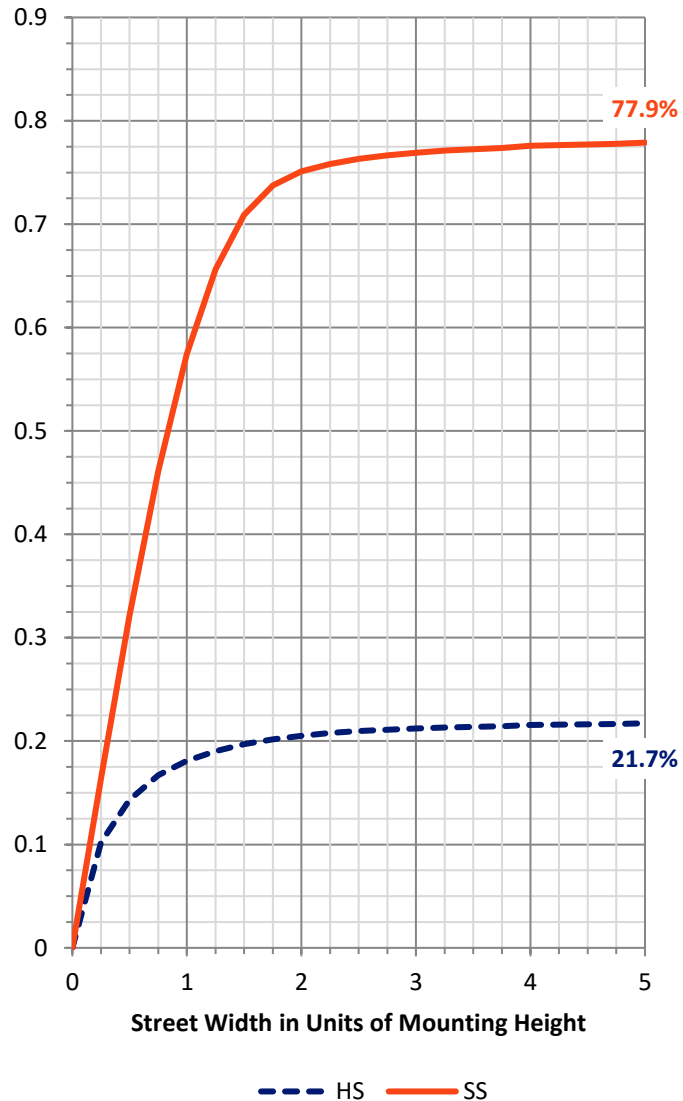
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1262.9	0.0	1262.9
	% Fixture	22.0	0.0	22.0
Street Side	Lumens	4476.1	0.0	4476.1
	% Fixture	78.0	0.0	78.0
Total	Lumens	5739.0	0.0	5739.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	104.6	1.8
10°-20°	273.4	4.8
20°-30°	441.2	7.7
30°-40°	662.1	11.5
40°-50°	939.3	16.4
50°-60°	1186.2	20.7
60°-70°	1204.7	21.0
70°-80°	821.1	14.3
80°-90°	106.5	1.9
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°	5739.0	100.0
0°-180°	5739.0	100.0

Coefficient of Utilization

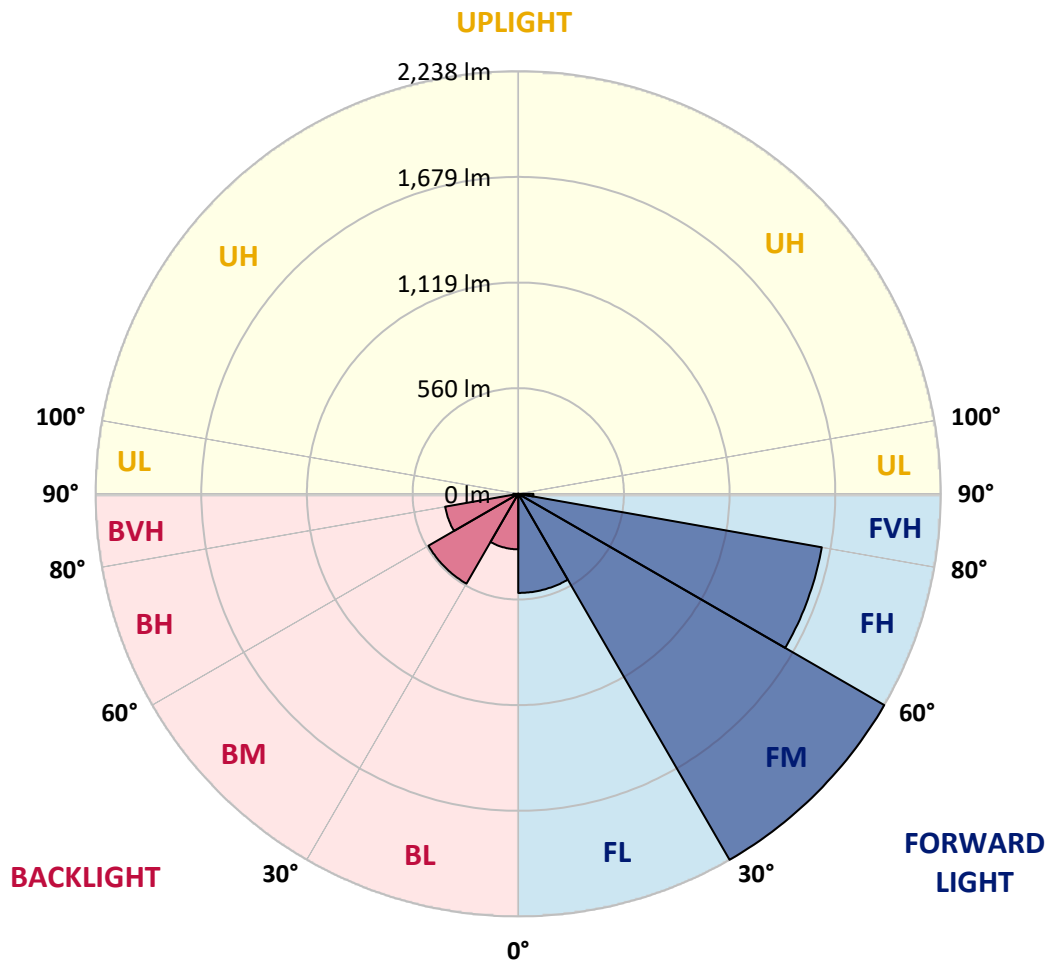


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	525.0	9.1			
FM (30°-60°)	2238.3	39.0			
FH (60°-80°)	1632.5	28.4			G1/1800
FVH (80°-90°)	80.2	1.4			G1/100
BL (0°-30°)	294.2	5.1	B1/500		
BM (30°-60°)	549.2	9.6	B1/1000		
BH (60°-80°)	393.2	6.9	B1/500		G1/500
BVH (80°-90°)	26.3	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1
 Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	1152.0	1152.0	1152.0	1152.0	1152.0	1152.0	1152.0	1152.0	1152.0	1152.0	1152.0
2.5°	1152.6	1147.2	1150.6	1149.3	1150.9	1152.6	1153.2	1154.1	1157.2	1156.9	1156.6
5°	1150.3	1144.7	1149.3	1147.8	1151.7	1156.0	1159.7	1163.0	1167.8	1169.9	1167.0
7.5°	1145.0	1141.4	1145.9	1150.6	1157.8	1164.2	1169.3	1176.9	1183.9	1185.1	1187.3
10°	1115.0	1112.2	1122.9	1134.8	1154.8	1172.1	1183.4	1192.1	1199.7	1200.9	1204.0
12.5°	1083.7	1080.5	1092.2	1108.3	1140.8	1172.1	1195.8	1207.2	1214.0	1217.9	1222.5
15°	1078.6	1075.8	1082.5	1096.4	1123.5	1163.9	1204.3	1225.5	1231.2	1235.8	1237.7
17.5°	1103.5	1098.3	1101.1	1105.9	1121.7	1156.3	1210.9	1246.2	1254.9	1259.8	1259.8
20°	1161.1	1153.8	1149.6	1139.9	1137.1	1157.5	1210.3	1271.0	1282.6	1288.6	1290.2
22.5°	1238.0	1233.1	1224.0	1199.4	1172.7	1172.4	1221.9	1302.9	1324.5	1330.2	1326.6
25°	1330.9	1323.6	1312.0	1278.6	1227.3	1201.8	1241.3	1343.6	1379.8	1381.3	1370.6
27.5°	1437.7	1426.8	1411.0	1366.9	1297.8	1247.9	1271.0	1390.3	1443.2	1442.6	1420.8
30°	1550.3	1539.4	1522.7	1469.2	1382.1	1310.2	1312.3	1440.7	1518.4	1515.2	1477.7
32.5°	1632.6	1624.4	1621.0	1579.7	1479.3	1383.6	1359.7	1496.6	1611.3	1608.3	1556.1
35°	1695.8	1685.1	1689.1	1668.1	1585.3	1466.0	1417.7	1563.1	1724.3	1723.9	1659.0
37.5°	1758.3	1748.9	1752.2	1738.2	1683.3	1570.4	1488.4	1644.4	1864.2	1870.9	1783.5
40°	1815.4	1805.3	1818.7	1805.6	1759.5	1681.5	1568.9	1736.5	2026.3	2039.0	1934.1
42.5°	1849.6	1841.7	1864.0	1864.2	1825.6	1775.3	1657.2	1837.8	2213.9	2242.5	2119.2
45°	1861.5	1858.7	1892.2	1899.1	1884.3	1829.6	1736.8	1948.3	2416.1	2467.1	2330.2
47.5°	1848.7	1843.6	1889.7	1915.5	1927.4	1855.1	1802.6	2067.9	2622.6	2697.2	2560.3
50°	1784.4	1774.4	1843.0	1897.3	1939.5	1871.9	1869.1	2206.0	2857.2	2938.9	2791.6
52.5°	1668.7	1661.1	1739.1	1833.5	1912.8	1880.0	1943.7	2356.9	3080.0	3185.7	3028.7
55°	1520.9	1510.8	1596.7	1720.1	1846.3	1877.3	2018.4	2525.7	3342.9	3450.0	3273.6
57.5°	1286.5	1266.5	1375.1	1520.9	1737.9	1873.9	2096.1	2693.6	3610.0	3738.5	3535.0
60°	944.7	914.9	1048.3	1221.0	1526.0	1841.4	2192.4	2881.8	3930.6	4046.3	3820.4
62.5°	550.1	532.8	619.9	781.0	1150.3	1650.2	2246.4	3100.6	4245.8	4367.1	4100.9
65°	427.1	422.3	429.9	442.3	640.2	1235.5	2079.7	3314.0	4646.4	4731.4	4393.3
67.5°	390.7	387.0	390.4	367.1	324.8	688.2	1645.3	3368.2	5075.7	5127.3	4649.2
70°	347.3	343.1	353.9	333.9	255.6	312.9	1063.1	3172.0	5417.2	5514.0	4843.7
72.5°	282.9	278.1	303.6	294.5	215.2	201.0	534.0	2706.0	5381.4	5582.4	4704.4
75°	217.4	214.6	245.0	252.6	175.5	158.2	256.2	2011.5	4735.7	4938.1	4054.5
77.5°	168.8	166.7	182.1	209.7	141.4	122.7	157.5	1275.9	3568.7	3604.3	2794.0
80°	126.6	120.5	134.8	162.4	110.2	89.6	106.9	744.0	2255.8	2044.9	1216.1
82.5°	79.2	76.2	88.0	108.3	77.7	61.6	69.5	411.0	904.0	532.5	234.6
85°	45.2	44.0	48.0	61.9	42.2	35.6	39.8	181.5	165.1	113.6	70.7
87.5°	18.2	17.6	21.8	27.7	15.5	13.0	13.9	43.7	36.4	33.7	23.4
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°	1152.0	1152.0	1152.0	1152.0	1152.0	1152.0	1152.0	1152.0	1152.0	1152.0	1152.0
2.5°	1155.4	1155.4	1151.2	1144.4	1136.8	1132.0	1124.1	1122.0	1113.8	1111.4	1115.3
5°	1169.3	1167.0	1153.8	1135.1	1109.3	1085.6	1059.4	1043.0	1020.0	1011.8	1017.8
7.5°	1186.9	1180.3	1157.8	1116.5	1062.5	1009.3	954.1	912.2	872.2	857.9	859.7
10°	1203.0	1193.6	1155.4	1083.1	989.6	897.7	809.6	748.0	701.2	682.1	686.3
12.5°	1219.1	1201.8	1139.3	1027.6	886.1	761.4	667.6	619.6	590.7	567.6	575.2
15°	1234.3	1210.0	1114.4	953.2	772.5	646.0	576.8	538.5	515.5	500.3	503.0
17.5°	1251.9	1217.0	1077.1	858.8	664.5	566.1	509.7	486.7	482.1	480.2	481.4
20°	1276.5	1223.3	1027.9	753.2	585.0	502.5	473.2	471.1	470.9	470.0	472.9
22.5°	1302.9	1230.9	962.9	657.2	517.3	462.7	457.5	453.3	450.5	450.2	453.6
25°	1334.1	1233.4	881.6	578.6	459.6	443.8	437.8	431.4	429.6	429.6	431.4
27.5°	1364.6	1225.2	786.9	510.3	427.1	426.5	418.6	416.5	416.2	417.1	419.5
30°	1394.9	1209.7	692.7	447.2	408.3	408.3	405.6	407.1	408.3	411.3	413.5
32.5°	1435.9	1193.3	614.1	400.4	391.9	388.9	391.7	394.6	395.9	399.7	403.1
35°	1496.0	1181.8	551.6	374.9	374.9	370.9	372.5	371.9	369.1	367.4	371.6
37.5°	1575.5	1181.2	500.0	363.1	360.6	360.1	360.3	356.4	345.7	333.0	333.3
40°	1671.2	1197.6	460.2	354.9	353.0	356.7	354.9	344.3	315.1	292.9	292.3
42.5°	1799.6	1244.4	434.7	344.8	350.3	354.9	347.6	310.9	291.1	276.2	275.6
45°	1950.8	1320.2	421.7	334.3	345.1	350.7	315.4	299.3	283.5	265.6	264.4
47.5°	2122.0	1415.8	418.6	324.2	333.6	336.9	301.8	294.5	276.5	257.2	255.6
50°	2308.3	1529.1	426.8	312.4	316.9	305.3	297.1	290.5	272.0	252.9	250.7
52.5°	2501.1	1653.8	443.2	296.3	300.2	287.5	295.4	289.6	269.3	243.4	241.6
55°	2690.5	1779.5	459.0	277.5	283.2	271.4	290.2	286.0	256.9	227.7	226.1
57.5°	2883.0	1904.6	474.5	260.8	266.8	255.9	282.0	276.2	242.8	213.1	212.5
60°	3083.1	2026.0	481.7	244.7	249.0	241.6	269.6	259.5	227.0	198.2	197.3
62.5°	3270.4	2127.1	470.0	228.6	231.3	228.3	253.2	239.8	211.3	181.5	181.2
65°	3458.2	2187.2	433.5	212.8	213.4	211.9	230.1	218.5	192.8	167.0	165.1
67.5°	3628.6	2220.9	375.6	195.8	194.2	193.7	208.6	195.5	174.9	152.4	150.6
70°	3664.7	2135.3	286.9	175.8	175.8	174.2	184.9	171.5	155.1	136.9	136.3
72.5°	3347.1	1796.2	203.7	153.0	155.4	152.4	161.2	150.0	135.1	122.9	119.3
75°	2699.0	1317.2	148.1	129.7	133.9	128.7	136.9	129.0	116.2	115.9	104.4
77.5°	1854.5	814.5	107.4	106.9	109.9	103.2	112.6	108.3	96.9	91.6	85.9
80°	791.4	324.8	78.3	82.6	82.6	76.5	87.4	88.7	78.6	76.2	76.2
82.5°	157.5	92.2	54.9	56.8	53.4	51.6	61.9	68.6	94.7	105.4	105.7
85°	47.4	34.0	33.1	31.0	27.4	27.7	36.4	68.9	85.0	48.6	41.9
87.5°	13.0	8.5	8.8	7.0	5.7	7.6	12.4	52.2	28.5	12.1	10.4
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)