

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: P959368

Luminaire Tested: **NAV-SB1A-750-U-T3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P959368
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-5)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB1A-750-U-T3
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 5000K, 350mA LIGHTSQUARE WITH 26 LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4869.8 lumens
Efficiency: N/A
Efficacy: 157.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G1

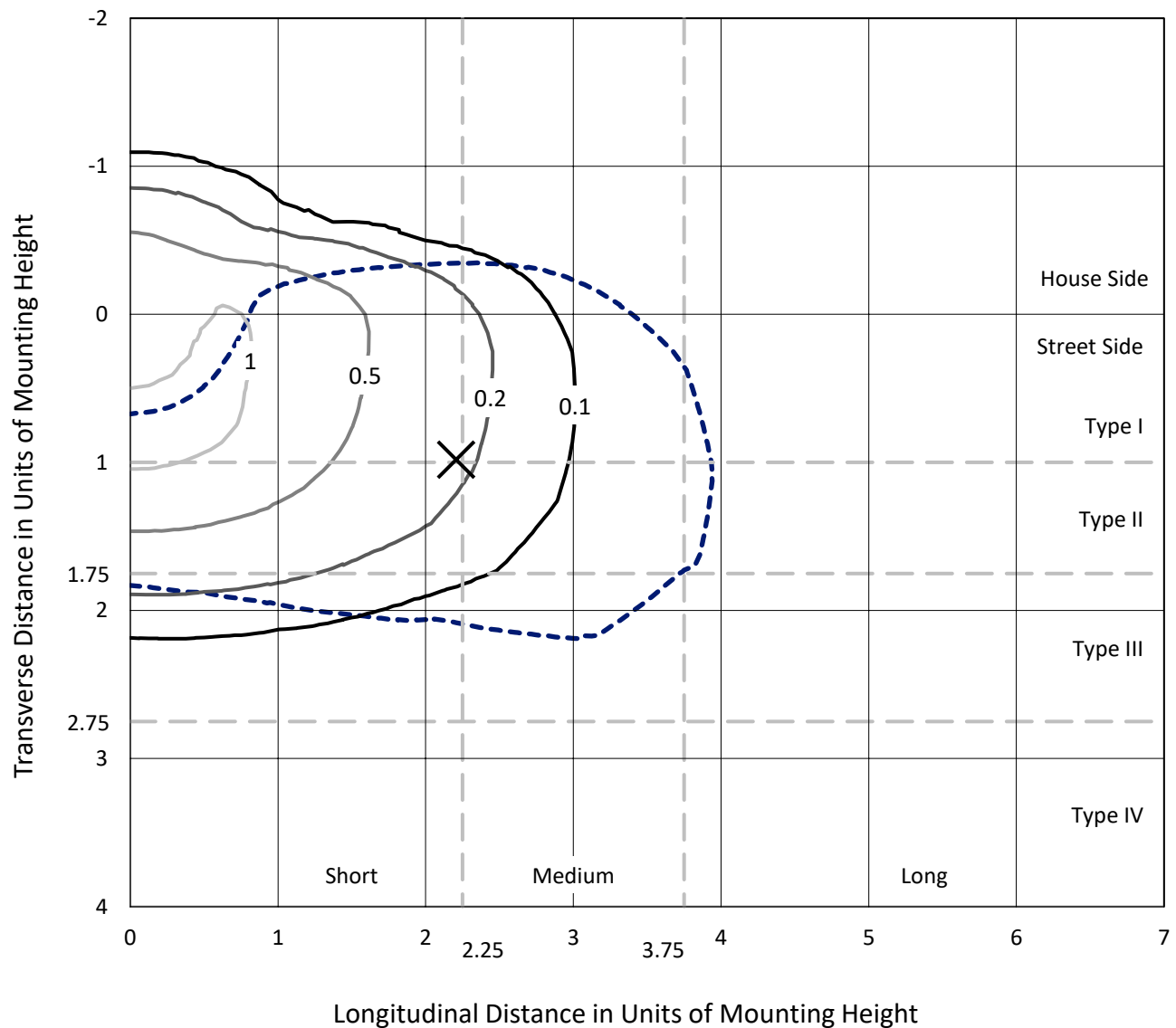
Input Watts (W): 30.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

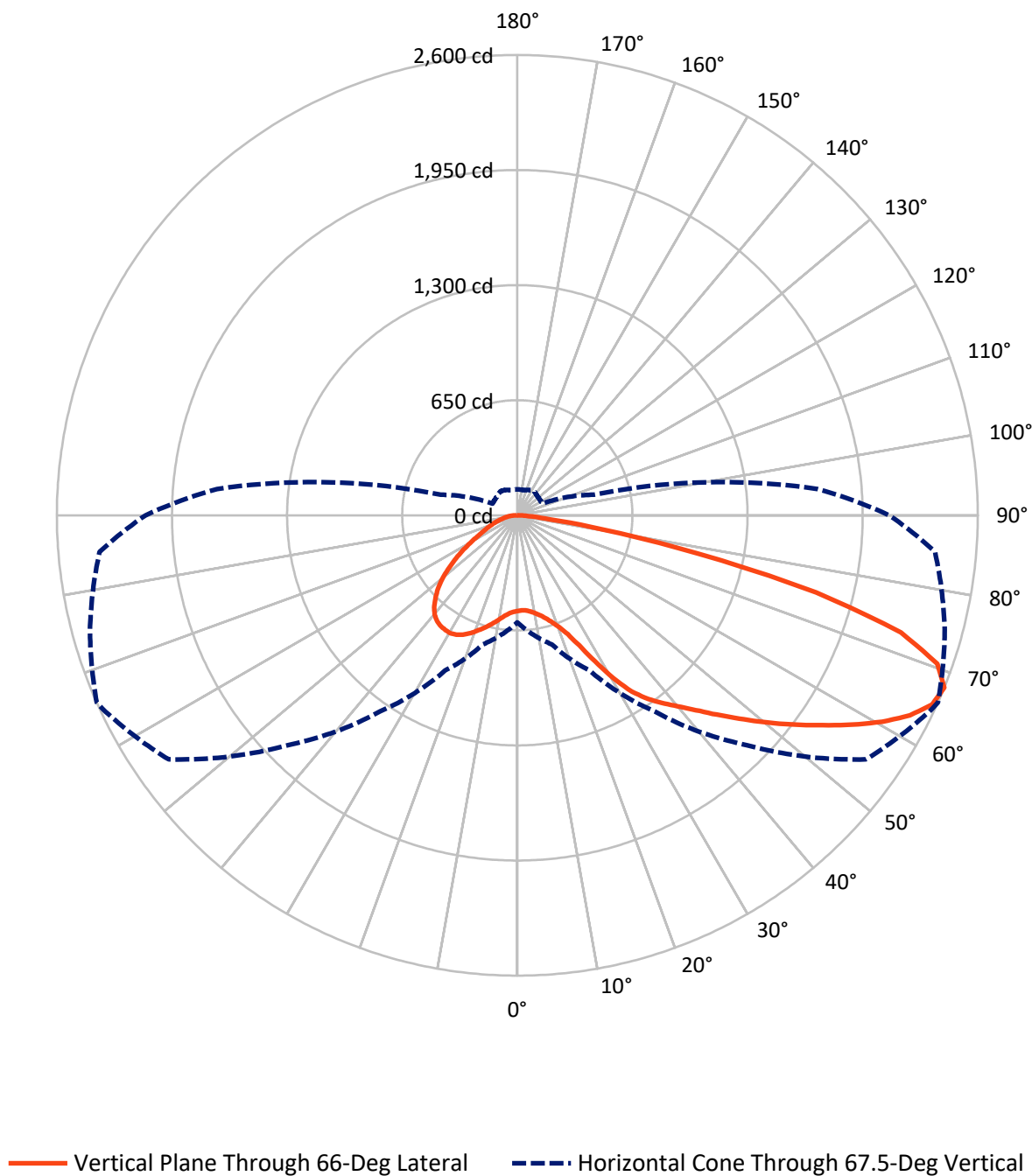
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.2 fc
Type III - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1210.9	0.0	1210.9
	% Fixture	24.9	0.0	24.9
Street Side	Lumens	3658.9	0.0	3658.9
	% Fixture	75.1	0.0	75.1
Total	Lumens	4869.8	0.0	4869.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	53.5	1.1
10°-20°	176.9	3.6
20°-30°	341.0	7.0
30°-40°	597.9	12.3
40°-50°	888.9	18.3
50°-60°	1126.8	23.1
60°-70°	1102.5	22.6
70°-80°	525.9	10.8
80°-90°	56.2	1.2
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°	4869.8	100.0
0°-180°	4869.8	100.0

Coefficient of Utilization



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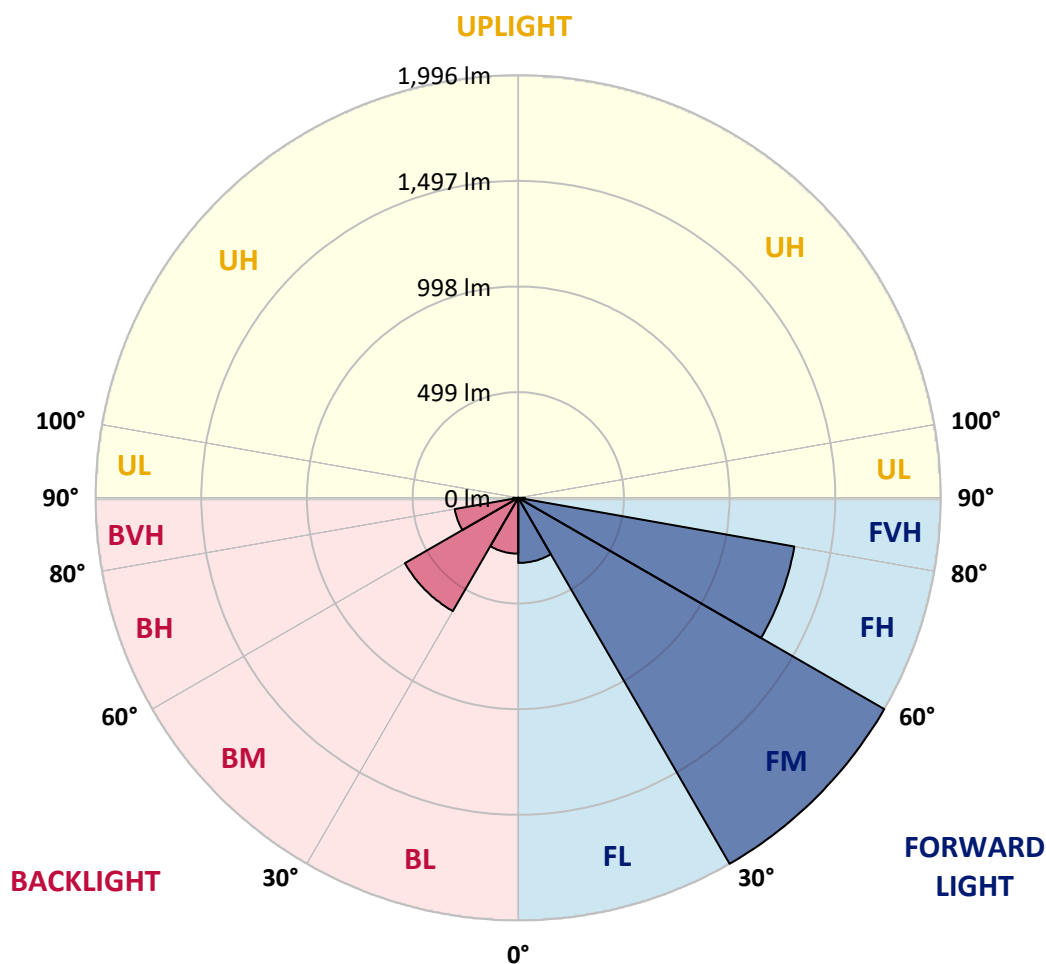
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	307.7	6.3			
FM	(30°-60°)	1995.6	41.0			
FH	(60°-80°)	1323.7	27.2			G1/1800
FVH	(80°-90°)	31.9	0.7			G1/100
BL	(0°-30°)	263.8	5.4	B1/500		
BM	(30°-60°)	618.0	12.7	B1/1000		
BH	(60°-80°)	304.7	6.3	B1/500		G1/500
BVH	(80°-90°)	24.3	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 III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	540.1	540.1	540.1	540.1	540.1	540.1	540.1	540.1	540.1	540.1	540.1
2.5°	534.5	537.6	536.8	535.6	535.3	535.8	536.6	537.3	537.1	538.3	540.4
5°	533.0	536.1	535.8	535.8	536.8	538.8	540.1	541.4	540.1	541.6	544.5
7.5°	534.0	536.3	537.3	538.3	540.9	544.7	547.8	550.6	549.1	550.8	554.4
10°	547.0	548.8	549.8	549.8	551.7	556.0	559.0	564.2	562.9	565.7	570.3
12.5°	570.8	572.7	572.7	571.6	572.9	575.6	576.7	582.3	580.0	584.7	589.3
15°	600.0	603.6	600.8	599.0	599.5	602.3	602.1	606.4	604.1	607.9	612.0
17.5°	632.2	636.8	632.2	632.0	631.0	634.1	634.3	638.2	634.1	636.8	639.7
20°	670.3	676.7	672.9	674.1	671.9	673.2	674.4	680.1	673.7	675.7	675.0
22.5°	724.1	731.7	727.6	732.6	731.0	730.0	729.7	739.7	729.7	730.5	723.0
25°	802.4	811.6	804.4	811.1	811.1	814.4	818.3	831.1	814.4	809.5	790.4
27.5°	918.0	927.2	913.2	917.3	915.9	924.1	920.0	951.8	933.9	926.0	887.3
30°	1057.2	1073.6	1046.9	1045.9	1044.7	1057.7	1063.6	1084.6	1066.4	1058.5	1011.9
32.5°	1207.7	1224.8	1193.1	1183.9	1179.1	1186.9	1182.0	1198.9	1186.4	1174.1	1116.5
35°	1366.8	1383.6	1353.5	1335.6	1316.1	1299.5	1282.1	1286.5	1274.7	1256.0	1196.4
37.5°	1517.2	1548.3	1516.3	1497.0	1461.2	1428.7	1380.2	1359.9	1348.9	1331.8	1271.6
40°	1670.5	1688.2	1663.9	1647.5	1608.6	1557.7	1479.9	1437.2	1422.3	1405.7	1354.7
42.5°	1783.4	1800.2	1787.2	1775.9	1745.5	1686.3	1585.8	1532.4	1510.8	1492.2	1448.9
45°	1872.9	1885.5	1877.3	1881.4	1868.3	1811.0	1695.6	1634.5	1612.2	1589.4	1555.3
47.5°	1909.0	1922.3	1935.3	1959.6	1981.9	1939.7	1813.5	1745.0	1721.4	1698.1	1664.6
50°	1904.9	1918.5	1956.3	2008.0	2077.1	2063.0	1937.9	1862.6	1840.9	1814.4	1783.4
52.5°	1872.2	1887.4	1936.1	2022.1	2132.1	2155.4	2064.6	1984.2	1963.7	1932.0	1901.1
55°	1786.2	1795.4	1868.3	1990.0	2145.1	2219.8	2188.7	2113.7	2093.2	2049.0	2015.2
57.5°	1626.8	1640.1	1746.3	1903.8	2112.4	2263.6	2297.6	2249.8	2230.1	2166.3	2131.1
60°	1418.7	1440.0	1561.5	1759.0	2029.0	2263.3	2396.7	2383.6	2367.2	2282.1	2245.2
62.5°	1183.4	1208.0	1324.8	1554.3	1883.1	2199.1	2458.6	2495.7	2487.3	2388.8	2341.6
65°	908.9	925.7	1042.1	1289.6	1656.2	2061.2	2465.7	2572.1	2573.7	2469.8	2392.0
67.5°	605.2	653.7	754.8	967.7	1352.2	1835.8	2402.8	2584.7	2599.5	2497.7	2366.7
70°	295.3	359.3	458.3	628.9	967.7	1490.1	2238.3	2481.8	2514.8	2416.3	2215.7
72.5°	122.6	143.3	197.3	310.4	555.4	1005.5	1907.7	2202.9	2264.1	2141.0	1862.9
75°	82.6	89.6	112.9	159.2	253.1	495.9	1375.8	1642.7	1741.2	1617.0	1321.7
77.5°	63.8	68.1	82.1	111.3	150.5	187.6	736.4	989.9	1040.9	963.6	687.8
80°	50.1	53.5	61.4	81.1	106.7	100.3	251.0	448.5	478.0	401.0	221.1
82.5°	43.5	44.8	44.0	55.0	70.8	58.6	82.4	165.5	182.7	132.5	72.2
85°	31.5	35.1	36.6	34.0	37.6	29.7	33.7	58.6	64.5	57.6	40.7
87.5°	12.8	19.0	23.3	22.0	13.8	8.4	10.5	17.1	19.7	21.5	13.3
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°	540.1	540.1	540.1	540.1	540.1	540.1	540.1	540.1	540.1	540.1	540.1
2.5°	540.6	542.4	543.7	545.2	546.2	547.8	550.8	552.7	552.9	554.2	553.9
5°	545.5	548.1	550.8	554.9	559.5	563.4	569.3	573.4	574.9	576.2	575.9
7.5°	556.0	559.5	564.7	571.8	578.5	583.6	590.8	595.6	600.5	602.3	602.6
10°	571.6	576.7	584.1	593.9	601.1	607.6	615.1	619.2	624.0	626.1	627.1
12.5°	591.0	596.4	606.2	619.7	626.4	631.0	633.6	632.5	633.6	635.3	635.8
15°	613.3	619.2	630.2	644.7	649.3	645.2	639.7	634.6	633.8	634.3	636.1
17.5°	639.7	644.0	656.8	669.1	665.7	648.8	636.6	628.4	624.3	623.0	624.8
20°	676.5	676.5	687.0	694.6	672.4	643.7	624.5	611.2	602.8	599.2	598.5
22.5°	721.3	717.2	723.9	718.4	671.2	629.5	602.8	579.7	567.0	561.9	561.1
25°	778.1	773.3	771.4	738.2	661.9	606.6	563.4	535.6	524.3	521.4	521.9
27.5°	863.8	851.5	828.2	748.9	645.0	570.8	517.3	491.5	485.1	485.3	486.2
30°	977.8	953.4	896.3	750.7	617.4	520.2	470.3	451.8	448.7	450.1	454.4
32.5°	1083.5	1060.3	965.9	742.5	574.9	470.6	428.0	415.7	411.1	412.7	414.7
35°	1166.4	1160.1	1030.3	731.0	522.8	423.9	390.2	379.7	370.7	368.7	370.2
37.5°	1244.8	1242.2	1078.7	714.8	471.1	390.9	359.8	345.9	332.9	325.7	326.0
40°	1330.8	1328.2	1110.5	690.0	425.3	362.3	332.4	314.2	298.1	285.1	286.3
42.5°	1427.4	1412.3	1125.6	654.5	386.3	337.9	310.1	285.6	264.3	252.3	253.1
45°	1533.1	1499.1	1125.2	609.2	353.6	315.7	286.3	251.5	231.9	220.6	220.1
47.5°	1645.2	1582.0	1111.5	559.0	321.8	291.2	249.5	222.8	209.8	202.8	201.4
50°	1760.8	1659.5	1087.9	501.5	289.4	263.3	226.4	208.3	198.3	191.9	189.6
52.5°	1869.6	1729.9	1059.5	436.2	256.4	236.2	216.2	202.1	191.7	184.5	181.4
55°	1970.7	1790.5	1019.4	369.5	229.5	218.0	211.4	199.6	187.6	179.1	175.8
57.5°	2060.5	1829.9	950.0	306.8	210.3	205.4	206.2	195.3	181.4	174.2	169.6
60°	2135.2	1858.8	847.4	248.7	194.7	193.2	198.3	187.1	170.9	162.8	159.2
62.5°	2180.0	1858.3	721.5	203.7	181.4	181.9	187.8	176.8	160.4	152.7	150.5
65°	2176.1	1812.8	583.3	174.2	168.6	169.1	176.8	165.5	151.7	147.1	146.9
67.5°	2099.1	1701.7	447.5	155.1	154.6	156.8	165.8	157.8	146.4	145.9	146.6
70°	1890.5	1471.2	322.4	139.7	139.9	143.3	155.1	153.0	143.5	144.5	144.3
72.5°	1516.0	1121.7	216.5	123.6	123.8	129.3	144.8	149.1	140.7	154.3	156.3
75°	1009.6	699.6	139.2	106.4	106.7	113.6	135.8	141.8	133.0	153.8	155.1
77.5°	485.1	314.5	100.9	89.6	89.6	95.9	117.5	126.9	113.4	119.5	109.5
80°	167.6	118.2	79.3	72.2	70.6	74.9	99.0	110.0	97.8	90.1	84.5
82.5°	66.0	61.4	63.8	56.1	50.9	53.7	77.0	90.8	71.9	65.0	64.8
85°	37.8	39.9	45.0	37.1	29.4	33.0	56.6	65.3	54.2	47.9	48.9
87.5°	10.2	14.0	20.7	19.2	13.3	14.0	26.9	36.1	31.3	24.1	24.8
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)