

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: P961323

Luminaire Tested: **NAV-SB2A-722-U-T4FT**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P961323
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-24)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB2A-722-U-T4FT
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 2200K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7507.1 lumens
Efficiency: N/A
Efficacy: 131.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

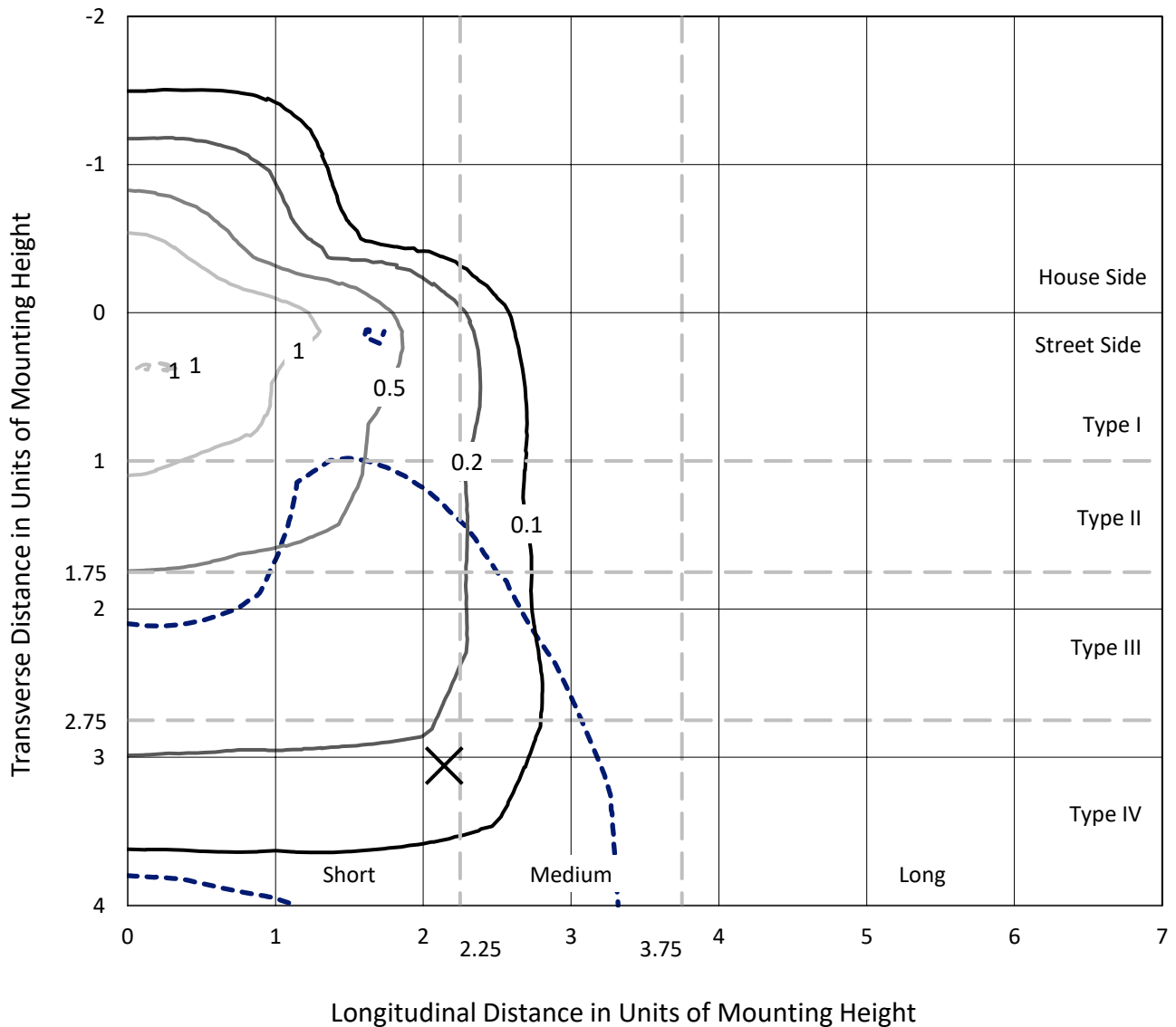
Input Watts (W): 57.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

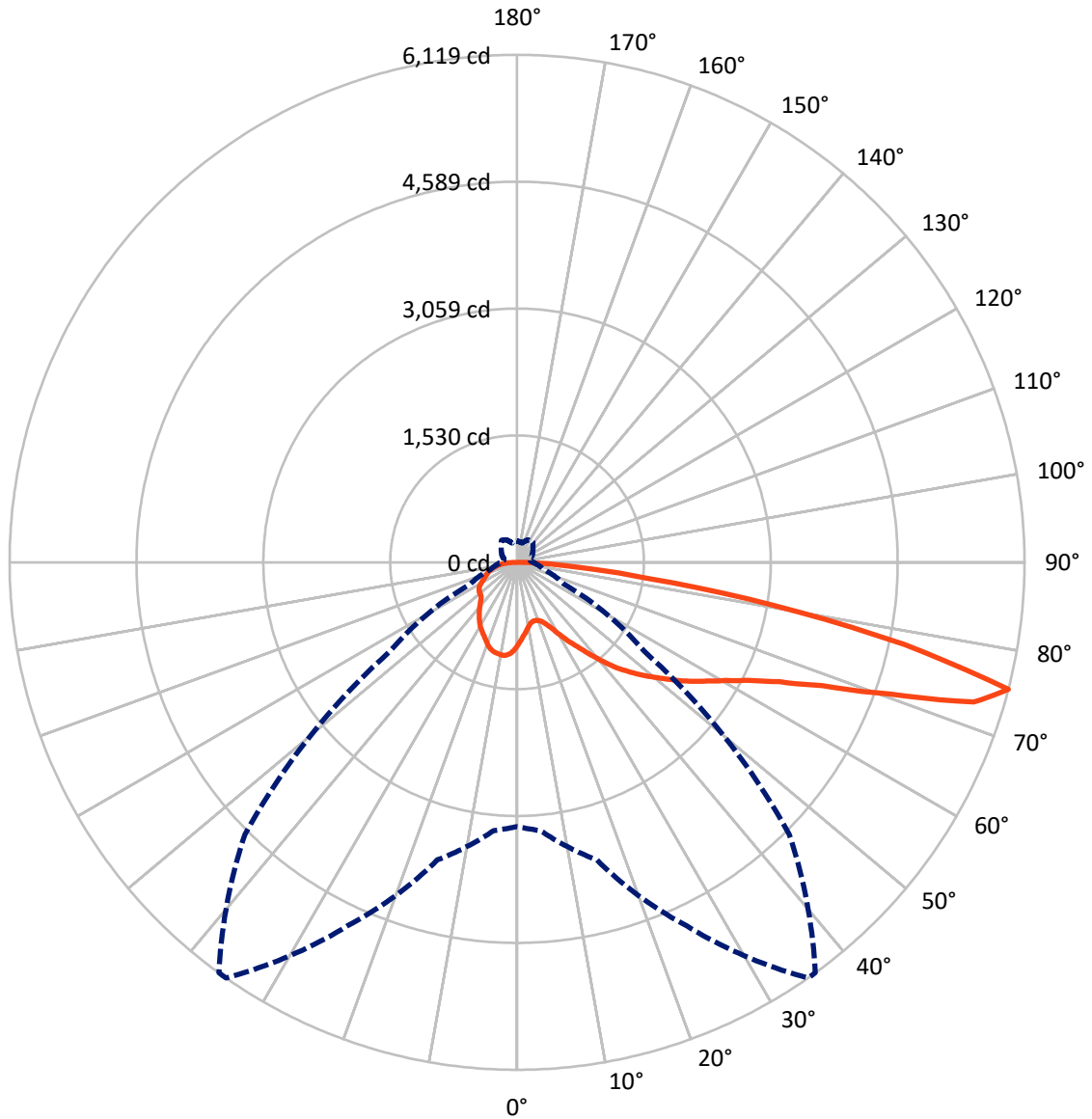
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.8 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1786.5	0.0	1786.5
	% Fixture	23.8	0.0	23.8
Street Side	Lumens	5720.6	0.0	5720.6
	% Fixture	76.2	0.0	76.2
Total	Lumens	7507.1	0.0	7507.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	94.7	1.3
10°-20°	273.2	3.6
20°-30°	458.8	6.1
30°-40°	713.0	9.5
40°-50°	1058.3	14.1
50°-60°	1461.0	19.5
60°-70°	1772.5	23.6
70°-80°	1464.9	19.5
80°-90°	210.7	2.8
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°	7507.1	100.0
0°-180°	7507.1	100.0

Coefficient of Utilization

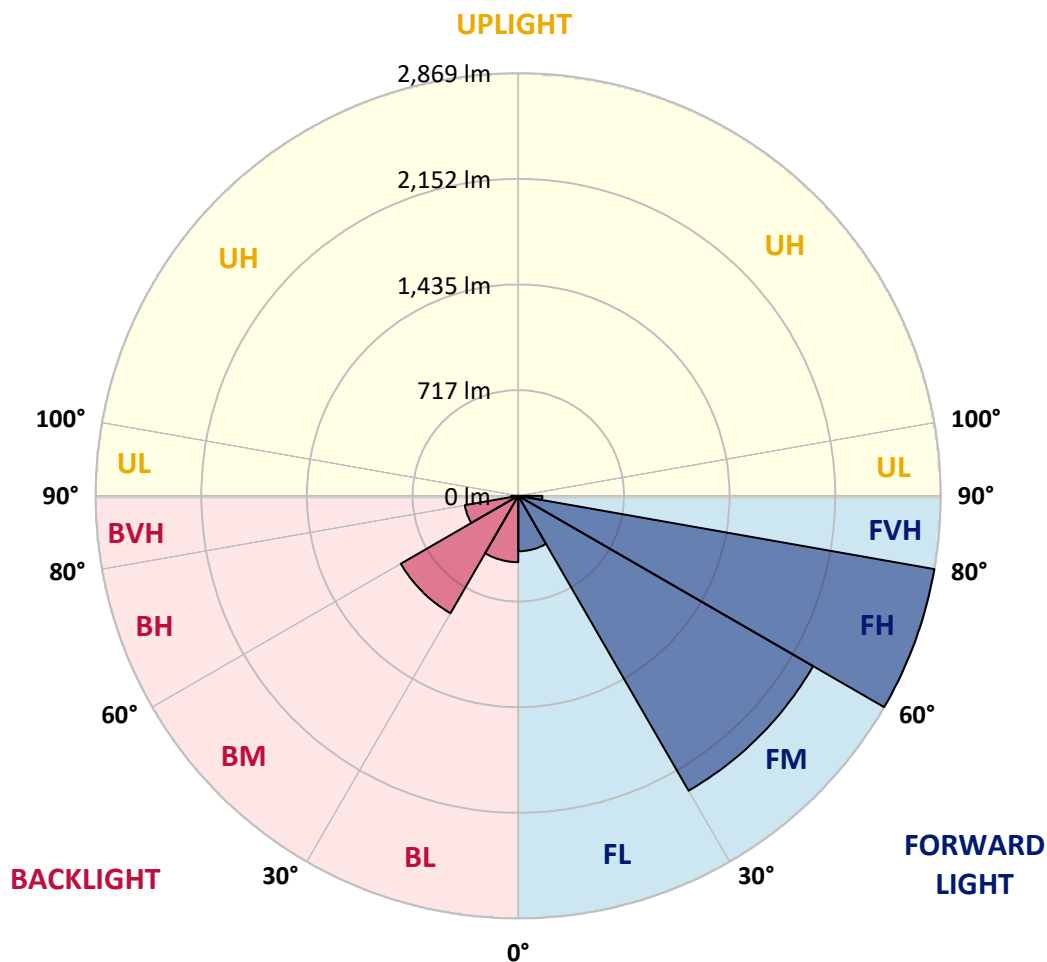


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	376.5	5.0			
FM (30°-60°)	2311.8	30.8			
FH (60°-80°)	2869.1	38.2			G2/5000
FVH (80°-90°)	163.2	2.2			G2/225
BL (0°-30°)	450.2	6.0	B1/500		
BM (30°-60°)	920.5	12.3	B1/1000		
BH (60°-80°)	368.3	4.9	B1/500		G1/500
BVH (80°-90°)	47.4	0.6			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 IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°	85°
0°	1000.4	1000.4	1000.4	1000.4	1000.4	1000.4	1000.4	1000.4	1000.4	1000.4	1000.4
2.5°	922.5	928.1	930.6	929.4	935.4	934.6	943.1	953.7	968.3	982.6	1003.2
5°	851.5	857.5	862.8	867.7	879.4	883.0	896.5	916.8	943.5	970.8	1004.8
7.5°	785.3	790.6	798.7	807.6	827.5	831.2	853.4	885.1	922.5	962.3	1009.3
10°	731.3	736.6	745.1	755.2	780.0	784.4	812.9	855.1	903.7	954.1	1014.1
12.5°	708.2	709.8	714.6	724.8	746.3	749.2	780.4	828.7	885.5	948.0	1021.5
15°	706.9	710.2	710.6	715.9	733.7	734.9	763.7	811.7	874.1	946.8	1032.5
17.5°	719.1	721.6	717.9	721.2	736.2	738.2	761.0	803.5	870.5	952.1	1051.1
20°	751.6	753.6	742.7	738.2	749.2	750.8	773.2	808.8	874.1	963.0	1076.7
22.5°	820.6	821.8	795.0	776.7	777.6	778.4	797.9	830.4	888.4	982.9	1109.2
25°	928.1	927.3	884.7	849.4	829.1	824.6	837.6	865.2	912.4	1009.3	1151.0
27.5°	1053.9	1047.9	1005.2	952.5	908.3	901.8	898.9	910.7	946.4	1044.2	1202.1
30°	1196.0	1190.3	1144.4	1075.4	1014.1	1003.6	976.8	970.8	997.1	1091.7	1273.0
32.5°	1351.8	1348.2	1293.3	1209.8	1127.8	1115.6	1070.6	1054.3	1075.0	1163.5	1372.1
35°	1482.5	1479.3	1433.8	1347.8	1247.5	1232.5	1186.6	1168.4	1179.0	1255.6	1501.5
37.5°	1600.6	1599.0	1560.0	1492.2	1388.8	1370.5	1319.0	1312.8	1310.9	1377.0	1658.7
40°	1710.2	1706.1	1665.5	1629.9	1553.1	1536.5	1491.1	1485.7	1470.4	1526.3	1836.4
42.5°	1831.5	1820.9	1762.1	1745.5	1724.8	1710.9	1683.8	1684.6	1650.6	1694.7	2024.7
45°	1930.5	1924.4	1864.0	1854.2	1876.6	1870.8	1894.4	1900.5	1834.3	1871.2	2220.3
47.5°	2036.9	2031.1	1980.1	1973.1	2033.6	2035.2	2118.5	2120.4	2013.7	2054.7	2416.3
50°	2168.0	2159.9	2109.1	2117.6	2185.4	2191.4	2343.7	2329.8	2178.9	2241.0	2610.7
52.5°	2254.4	2259.3	2248.3	2262.1	2354.6	2360.3	2565.3	2529.9	2342.4	2424.8	2801.4
55°	2318.1	2327.9	2361.9	2393.6	2533.2	2538.9	2774.3	2720.2	2478.0	2595.3	2980.8
57.5°	2400.0	2386.3	2450.0	2511.7	2702.8	2717.9	2977.6	2903.7	2598.2	2742.2	3103.8
60°	2517.8	2508.1	2557.6	2648.8	2892.8	2916.7	3192.7	3068.8	2686.2	2858.6	3127.7
62.5°	2756.4	2732.0	2739.7	2820.5	3132.2	3163.9	3435.4	3213.0	2730.0	2904.1	2999.5
65°	3113.1	3071.3	3032.4	3088.3	3469.4	3500.7	3709.3	3326.2	2713.8	2816.1	2659.0
67.5°	3562.4	3521.0	3473.1	3525.9	3966.1	3990.9	4047.3	3389.9	2586.0	2476.8	2057.2
70°	3932.9	3917.4	3974.7	4191.8	4759.6	4760.4	4480.8	3337.1	2235.7	1756.0	1190.3
72.5°	3883.8	3874.5	4176.0	4847.2	5759.6	5738.1	4891.1	2937.9	1506.0	792.2	446.0
75°	3186.2	3246.7	3713.8	4835.4	6118.7	6115.9	4639.9	1867.7	623.0	328.3	230.5
77.5°	1708.6	1804.3	2411.0	3570.1	4776.6	4848.5	3262.1	653.4	267.4	210.2	159.5
80°	557.2	640.8	961.0	1817.7	3103.8	3090.4	1398.1	256.5	183.1	148.9	110.4
82.5°	236.6	246.3	429.4	858.3	1592.8	1568.1	445.2	147.3	128.6	101.9	68.2
85°	92.6	103.5	189.5	396.9	689.9	674.9	160.7	73.1	82.4	66.5	40.6
87.5°	30.4	36.9	67.8	135.9	214.6	206.9	39.4	25.1	35.7	30.4	14.7
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°	1000.4	1000.4	1000.4	1000.4	1000.4	1000.4	1000.4	1000.4	1000.4	1000.4	1000.4
2.5°	1008.9	1015.4	1023.1	1034.4	1044.2	1052.4	1060.9	1066.1	1068.2	1074.2	1073.8
5°	1016.2	1030.4	1049.5	1068.2	1086.4	1097.4	1107.1	1112.0	1116.4	1119.7	1120.5
7.5°	1028.4	1046.6	1076.7	1101.1	1116.4	1125.3	1131.9	1130.3	1131.9	1132.6	1133.9
10°	1038.9	1064.5	1100.2	1123.3	1135.1	1135.5	1133.9	1128.2	1125.3	1125.8	1126.6
12.5°	1051.5	1079.9	1118.5	1138.0	1141.2	1132.3	1125.3	1115.6	1112.0	1110.4	1109.6
15°	1068.6	1101.1	1138.4	1145.6	1137.5	1126.2	1114.4	1098.6	1090.5	1083.9	1086.0
17.5°	1089.3	1124.9	1153.7	1148.5	1131.1	1112.3	1093.3	1069.4	1052.7	1045.8	1046.2
20°	1118.1	1150.2	1165.5	1142.4	1116.0	1087.6	1055.1	1025.9	1010.5	1003.6	1002.8
22.5°	1152.9	1183.8	1176.9	1131.9	1094.5	1049.1	1008.5	987.0	979.3	974.4	975.2
25°	1194.7	1221.2	1185.0	1116.4	1059.2	997.9	966.7	959.8	956.1	952.5	952.5
27.5°	1249.2	1263.3	1191.2	1093.7	1004.0	943.5	932.2	933.4	932.2	926.1	927.3
30°	1321.0	1318.1	1196.8	1056.8	940.7	894.4	895.2	900.6	901.4	897.3	899.3
32.5°	1415.5	1386.7	1199.7	1008.9	880.3	851.5	852.3	857.9	862.0	855.1	858.3
35°	1530.0	1466.7	1195.1	948.8	833.5	810.5	804.3	806.0	807.2	800.7	805.1
37.5°	1663.5	1556.4	1175.3	882.3	795.0	770.3	757.3	746.3	739.8	733.7	737.8
40°	1810.0	1654.1	1138.8	817.3	752.0	727.6	708.2	687.5	665.5	657.4	661.1
42.5°	1963.4	1754.8	1094.5	755.2	702.5	682.6	661.9	631.9	599.0	582.4	584.4
45°	2122.5	1857.9	1051.1	693.9	651.8	643.3	619.3	583.2	547.5	526.3	524.7
47.5°	2278.4	1955.3	987.4	632.3	604.2	613.6	594.9	561.7	521.9	488.6	484.9
50°	2427.3	2046.6	883.0	569.8	565.7	604.6	586.8	538.9	493.5	450.9	447.2
52.5°	2575.0	2120.4	749.6	513.0	545.0	602.3	576.3	523.6	467.9	423.3	418.4
55°	2700.4	2158.6	620.9	464.2	515.0	581.6	563.6	505.2	431.8	384.3	380.3
57.5°	2771.8	2127.8	513.7	416.4	473.7	547.5	542.2	466.3	388.8	352.3	347.4
60°	2741.0	2002.7	426.1	374.5	434.2	510.6	504.8	427.7	355.9	321.4	316.5
62.5°	2570.9	1764.5	356.7	338.0	398.5	472.8	467.5	398.1	330.8	297.5	292.2
65°	2228.5	1435.4	302.8	307.6	362.4	427.3	435.0	373.4	310.9	278.4	273.2
67.5°	1699.7	1039.8	260.6	281.3	327.1	382.7	405.0	355.5	294.3	263.4	258.5
70°	968.7	590.5	224.8	255.6	295.8	341.3	381.9	341.3	276.3	250.8	247.5
72.5°	367.3	271.1	194.4	230.1	265.8	306.4	356.3	319.0	255.6	236.6	233.4
75°	196.0	165.1	163.6	200.1	231.3	272.3	324.2	297.0	240.3	250.0	258.1
77.5°	133.6	116.8	136.7	171.3	193.6	234.5	290.2	263.8	208.2	207.4	191.2
80°	92.6	82.8	111.2	138.0	149.8	197.2	253.3	226.4	169.6	158.3	151.4
82.5°	55.6	54.0	83.2	103.1	105.9	152.2	209.8	189.9	138.8	121.0	121.8
85°	30.4	32.1	53.2	60.5	61.7	106.3	164.4	146.9	106.7	89.7	90.5
87.5°	8.5	11.0	19.5	24.0	29.6	55.1	97.8	87.2	53.6	37.3	37.3
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)