

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: P960293

Luminaire Tested: **NAV-SB1C-727-U-T2U**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P960293
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-16)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB1C-727-U-T2U
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 2700K, 615mA LIGHTSQUARE WITH 26 LEDS AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7218 lumens
Efficiency: N/A
Efficacy: 132.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

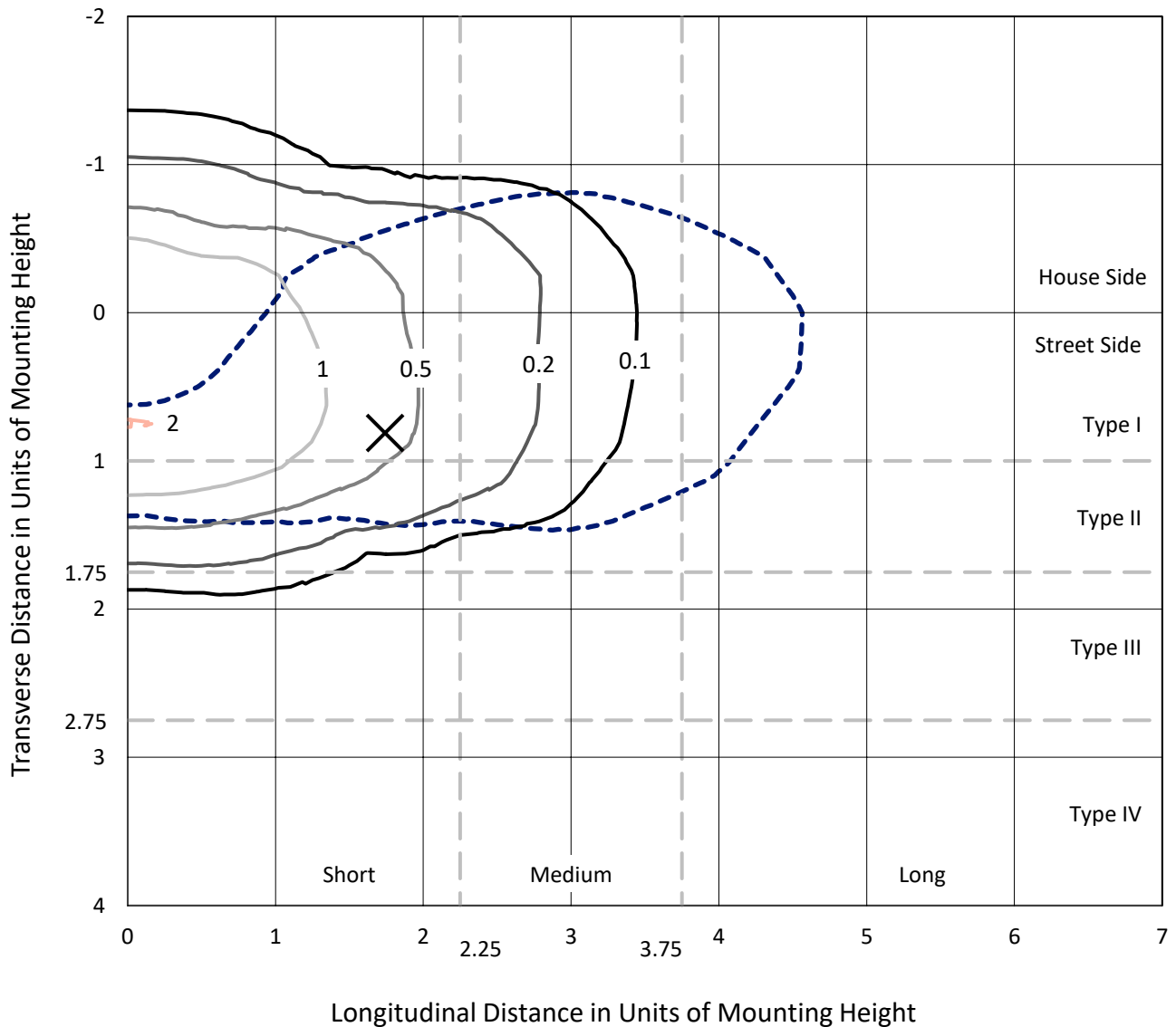
Input Watts (W): 54.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

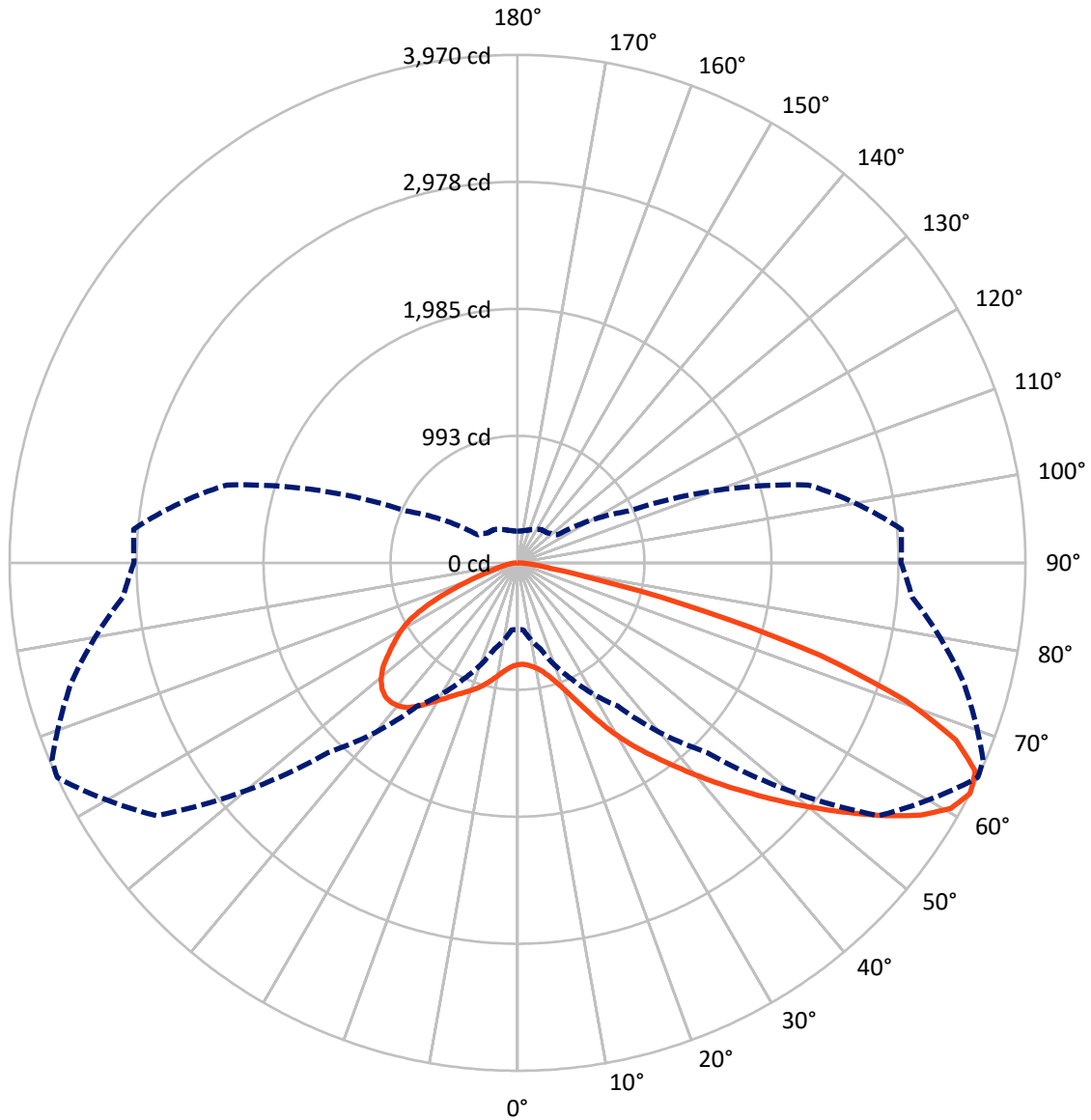
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2277.7	0.0	2277.7
	% Fixture	31.6	0.0	31.6
Street Side	Lumens	4940.3	0.0	4940.3
	% Fixture	68.4	0.0	68.4
Total	Lumens	7218.0	0.0	7218.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	79.3	1.1
10°-20°	268.9	3.7
20°-30°	545.3	7.6
30°-40°	943.5	13.1
40°-50°	1427.9	19.8
50°-60°	1674.1	23.2
60°-70°	1403.5	19.4
70°-80°	774.9	10.7
80°-90°	100.6	1.4
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°	7218.0	100.0
0°-180°	7218.0	100.0

Coefficient of Utilization

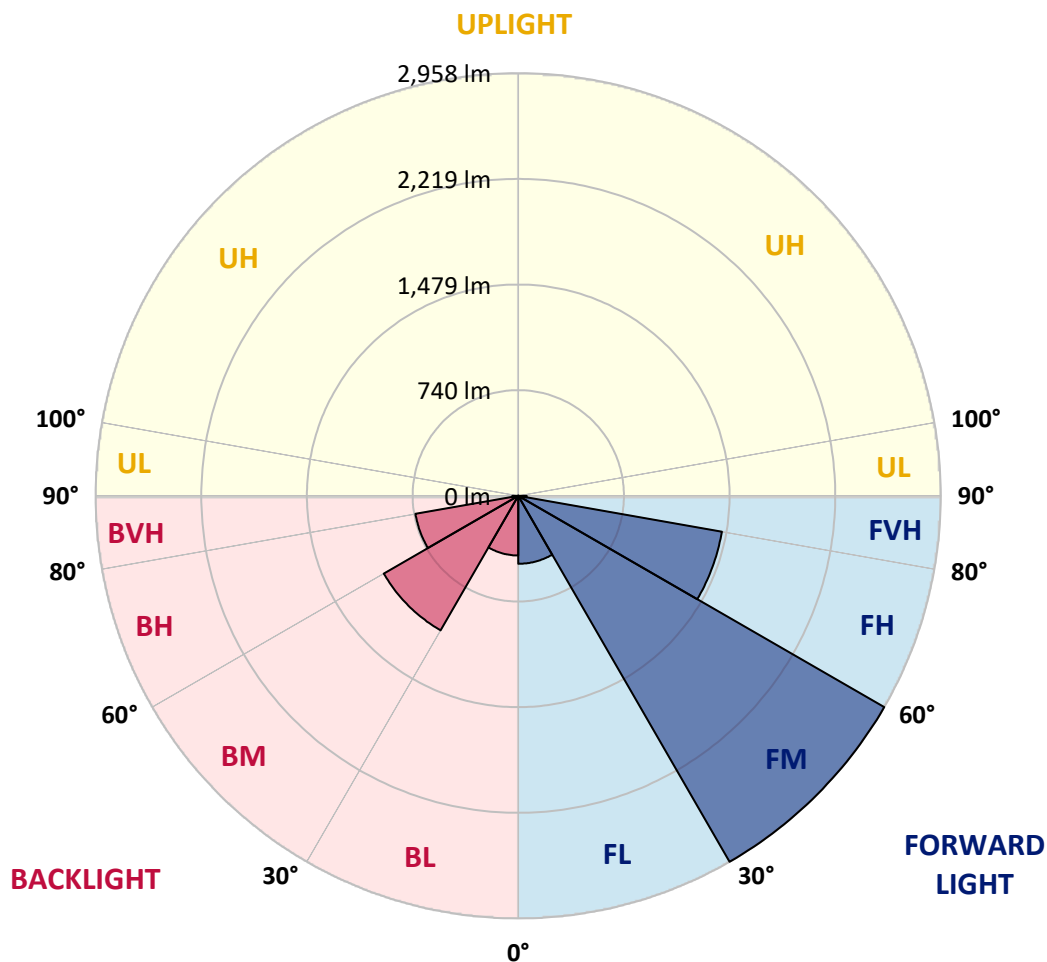


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	475.8	6.6			
FM (30°-60°)	2958.2	41.0			
FH (60°-80°)	1447.7	20.1			G1/1800
FVH (80°-90°)	58.7	0.8			G1/100
BL (0°-30°)	417.7	5.8	B1/500		
BM (30°-60°)	1087.3	15.1	B2/2500		
BH (60°-80°)	730.7	10.1	B2/1000		G2/1000
BVH (80°-90°)	42.0	0.6			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2
 Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	795.4	795.4	795.4	795.4	795.4	795.4	795.4	795.4	795.4	795.4	795.4
2.5°	790.2	787.9	789.8	789.8	790.5	790.2	792.7	793.6	794.7	796.9	796.9
5°	782.3	781.9	785.3	788.3	791.3	793.9	797.2	802.2	802.9	805.5	808.9
7.5°	779.7	777.5	782.7	786.4	793.6	799.9	808.9	817.1	820.5	821.6	828.0
10°	799.9	796.1	801.0	803.3	809.2	815.6	826.2	839.2	843.0	847.5	854.5
12.5°	834.4	830.2	837.3	840.7	846.3	852.0	859.1	871.8	873.7	881.9	888.7
15°	881.5	876.7	881.2	885.3	894.6	899.8	907.0	919.3	919.3	925.7	930.6
17.5°	945.6	939.2	942.6	944.0	950.1	958.0	969.9	980.7	986.4	984.1	977.4
20°	1041.1	1033.2	1033.2	1025.7	1023.5	1029.8	1045.5	1060.6	1066.5	1054.9	1038.4
22.5°	1184.5	1173.2	1166.9	1141.4	1131.3	1132.0	1147.8	1166.1	1171.0	1150.4	1113.4
25°	1366.8	1349.2	1340.6	1303.2	1280.3	1260.5	1272.8	1296.4	1303.2	1277.8	1217.8
27.5°	1549.2	1550.3	1542.1	1497.2	1459.4	1423.0	1416.7	1441.4	1448.5	1419.6	1345.5
30°	1805.0	1778.4	1762.7	1708.8	1654.9	1603.9	1577.7	1587.8	1589.7	1555.2	1469.1
32.5°	2025.6	2018.8	1985.1	1938.0	1868.7	1788.9	1745.1	1729.0	1726.0	1676.9	1574.7
35°	2276.8	2273.1	2237.6	2181.3	2106.5	1995.6	1916.5	1870.5	1866.8	1797.8	1679.2
37.5°	2532.3	2532.3	2497.4	2436.0	2358.5	2219.9	2099.7	2026.7	2014.7	1924.8	1785.6
40°	2735.9	2723.6	2730.0	2704.2	2615.4	2468.2	2303.1	2197.1	2181.0	2073.2	1898.6
42.5°	2851.7	2847.6	2885.8	2914.6	2878.3	2760.6	2527.0	2381.7	2359.2	2236.4	2029.0
45°	2877.5	2873.0	2941.1	3046.8	3097.8	3049.4	2770.4	2576.0	2548.8	2407.2	2168.6
47.5°	2817.9	2809.0	2909.0	3075.6	3238.9	3323.9	3034.0	2786.9	2747.2	2573.5	2312.1
50°	2639.0	2630.4	2781.6	3002.9	3286.5	3510.4	3320.2	3010.4	2949.7	2751.7	2456.9
52.5°	2249.9	2254.0	2491.1	2795.2	3223.9	3626.4	3566.6	3246.0	3173.0	2934.1	2592.9
55°	1752.5	1761.6	2052.9	2387.7	2973.7	3608.9	3734.7	3488.7	3416.0	3105.5	2733.4
57.5°	1254.9	1294.6	1567.5	1899.0	2493.3	3329.9	3771.4	3719.3	3648.9	3292.8	2870.8
60°	813.3	820.5	1101.4	1435.4	1898.6	2834.0	3696.9	3894.2	3839.1	3483.8	2985.7
62.5°	521.3	526.1	697.3	1004.0	1366.5	2096.7	3445.9	3970.2	3953.4	3609.9	3096.2
65°	383.1	379.4	468.4	663.6	920.4	1293.0	2958.8	3933.5	3966.9	3689.0	3187.5
67.5°	319.8	314.6	358.3	459.5	678.1	734.3	2189.2	3695.0	3817.1	3680.1	3254.6
70°	291.3	286.9	313.4	341.1	529.1	491.7	1103.6	3212.2	3400.3	3577.8	3243.7
72.5°	246.8	238.9	275.2	303.0	411.5	377.1	456.1	2467.5	2696.7	3250.2	3091.0
75°	191.4	186.1	217.2	266.6	309.3	294.4	288.3	1498.3	1748.4	2513.5	2704.2
77.5°	151.7	144.5	173.0	207.9	278.3	222.1	210.1	645.2	893.2	1604.6	2023.4
80°	114.2	107.8	131.4	164.4	213.8	167.4	135.9	263.2	336.6	813.0	1017.4
82.5°	81.3	75.6	91.7	120.5	143.8	150.2	83.5	147.5	165.8	313.4	227.3
85°	52.1	48.7	61.4	75.6	91.3	96.7	50.9	77.2	84.7	129.1	94.7
87.5°	28.5	23.3	33.0	35.2	42.3	38.5	24.3	28.1	30.3	46.8	40.1
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°	795.4	795.4	795.4	795.4	795.4	795.4	795.4	795.4	795.4	795.4	795.4
2.5°	798.4	799.5	803.3	804.4	807.0	810.4	812.6	814.9	814.9	817.1	817.1
5°	809.2	811.9	819.7	823.9	830.6	837.3	841.4	846.3	849.3	850.9	851.6
7.5°	830.2	834.4	845.6	852.7	864.3	873.7	880.1	886.7	888.3	892.4	890.9
10°	858.6	863.6	876.3	889.8	903.6	915.2	921.3	926.1	927.9	928.8	926.8
12.5°	891.2	898.4	914.8	931.3	946.0	956.0	957.6	956.4	951.2	946.7	946.7
15°	931.3	937.7	956.0	974.1	988.3	990.1	980.7	974.8	968.4	967.3	967.3
17.5°	979.3	982.7	999.5	1017.1	1018.2	1011.9	998.0	992.4	986.4	982.3	982.7
20°	1035.0	1033.9	1045.9	1053.4	1045.5	1026.1	1005.1	995.8	989.7	984.9	985.2
22.5°	1101.8	1093.1	1091.6	1089.8	1068.8	1028.0	999.5	987.5	978.2	971.4	973.6
25°	1198.7	1165.7	1142.9	1130.2	1083.0	1017.8	981.5	954.9	937.4	925.7	930.2
27.5°	1320.0	1264.6	1206.9	1175.9	1083.0	997.2	938.1	895.0	866.1	854.2	860.2
30°	1435.7	1377.7	1292.7	1230.9	1080.4	963.5	868.1	808.1	774.4	762.4	769.6
32.5°	1534.6	1471.3	1383.7	1291.2	1074.0	908.9	781.2	714.8	682.3	668.1	675.2
35°	1626.4	1558.9	1475.1	1357.5	1057.2	828.7	685.7	635.1	598.8	575.9	583.4
37.5°	1720.4	1640.2	1561.6	1417.4	1026.8	735.1	612.2	569.2	526.5	495.8	504.1
40°	1822.6	1726.7	1654.0	1452.9	977.0	646.0	555.3	516.0	470.7	438.2	444.5
42.5°	1942.1	1830.4	1757.1	1471.3	908.9	582.7	518.2	479.7	437.1	410.4	415.6
45°	2066.8	1944.6	1851.0	1471.0	832.8	553.1	506.2	468.1	421.0	393.2	397.7
47.5°	2197.5	2064.1	1932.3	1447.0	766.9	557.2	499.6	443.0	390.9	364.0	367.8
50°	2328.5	2194.8	2010.9	1402.1	738.8	548.3	474.5	407.8	346.3	322.1	323.6
52.5°	2458.5	2333.7	2078.7	1338.0	710.4	515.0	442.3	362.1	328.0	311.2	311.2
55°	2589.1	2471.2	2152.5	1244.8	639.2	476.0	388.4	344.9	313.4	298.1	296.6
57.5°	2720.2	2629.9	2222.5	1151.5	549.7	428.0	358.7	323.9	298.8	285.8	283.5
60°	2856.6	2811.6	2294.8	1065.8	461.4	366.6	337.0	307.1	281.6	267.0	265.9
62.5°	2997.0	3011.6	2351.4	955.3	380.1	329.1	317.5	286.9	262.1	248.3	247.9
65°	3138.5	3204.5	2388.5	802.2	308.2	293.6	296.6	264.8	239.6	227.7	227.3
67.5°	3245.3	3343.3	2378.0	607.0	252.8	259.9	270.4	241.5	217.9	208.6	209.0
70°	3257.2	3326.8	2274.6	415.6	211.6	226.9	241.2	218.7	194.3	187.6	188.0
72.5°	3097.8	3102.2	1986.7	271.5	179.0	199.3	210.4	195.5	171.9	165.1	164.8
75°	2679.5	2565.6	1458.6	179.0	149.8	171.2	181.6	171.2	148.3	149.8	144.5
77.5°	2030.0	1817.0	885.6	127.3	125.0	143.8	158.1	150.6	131.1	147.2	129.6
80°	1045.9	983.0	395.0	95.1	98.9	115.0	130.0	120.2	103.7	98.9	90.2
82.5°	239.6	278.6	155.8	68.2	71.5	82.7	99.2	90.2	74.5	62.9	62.1
85°	83.8	91.7	68.9	42.6	41.9	51.7	67.4	60.3	50.5	40.5	42.6
87.5°	26.5	34.8	25.8	17.2	17.9	23.3	31.1	28.5	23.6	15.4	16.1
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)