

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: P960794

Luminaire Tested: **NAV-SB1D-722-U-T3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P960794
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-SB1D-722-U-T3
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 2200K, 900mA LIGHTSQUARE WITH 26 LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8625.4 lumens
Efficiency: N/A
Efficacy: 108.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

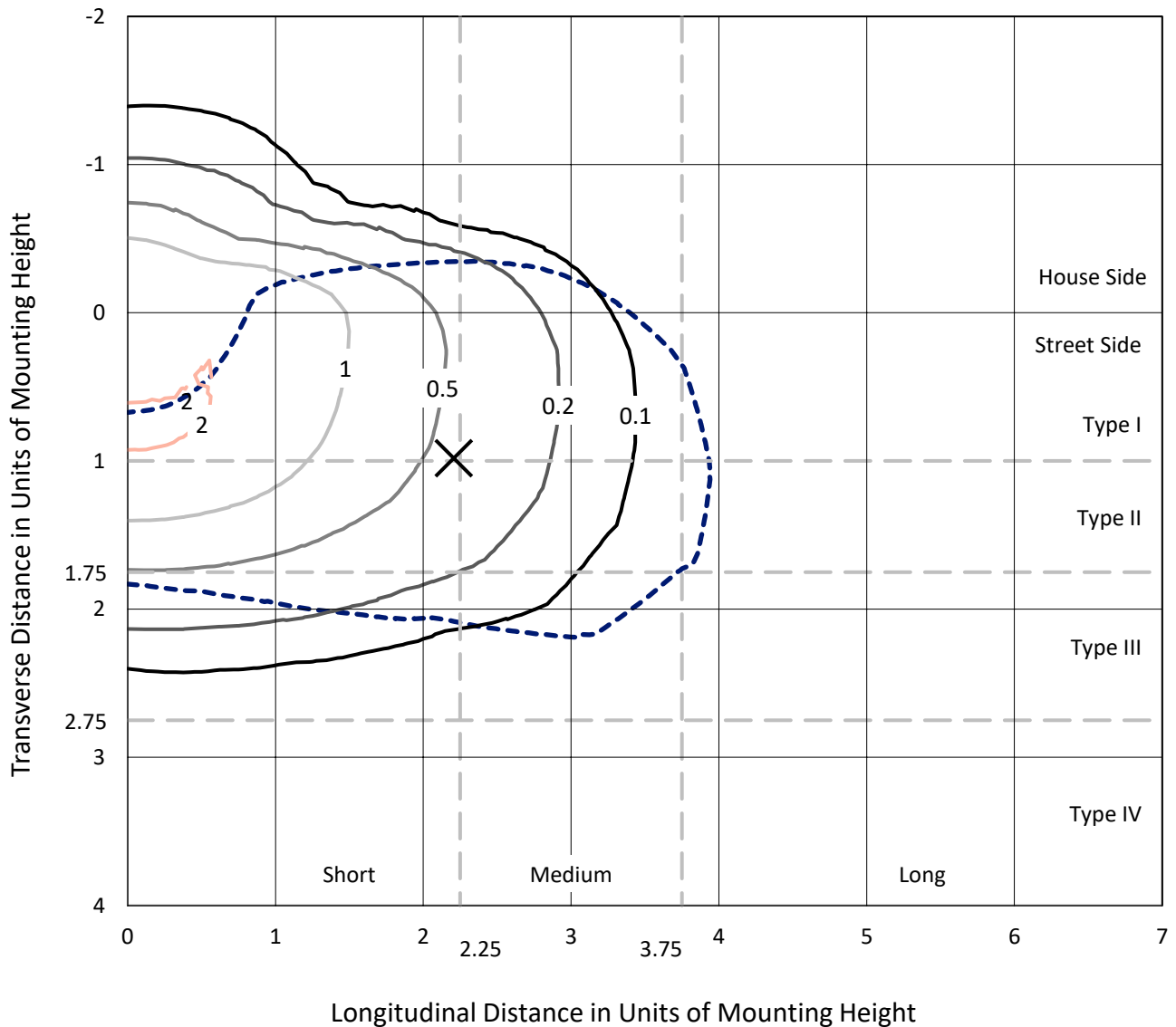
Input Watts (W): 79.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

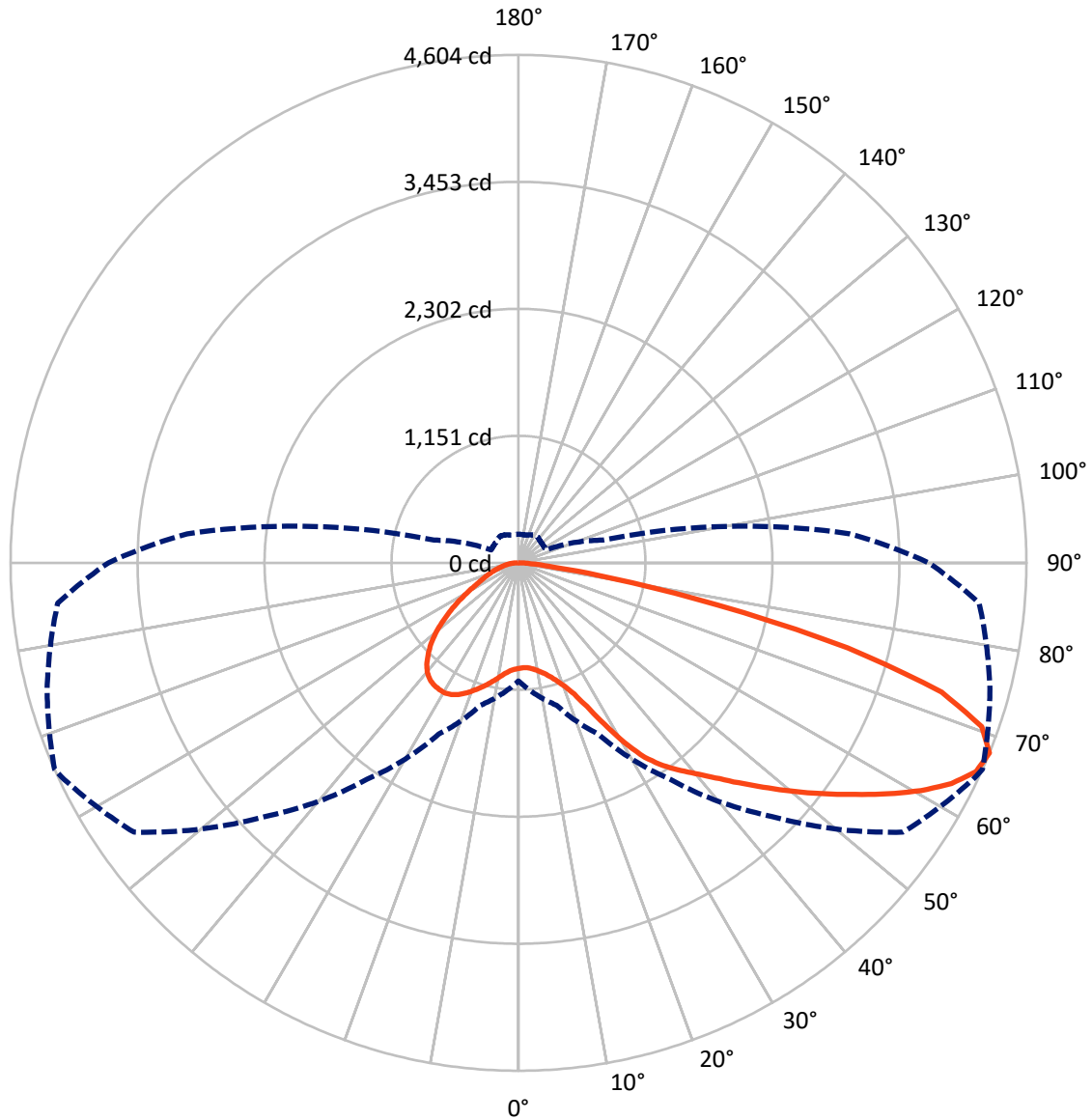
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.2 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2144.7	0.0	2144.7
	% Fixture	24.9	0.0	24.9
Street Side	Lumens	6480.7	0.0	6480.7
	% Fixture	75.1	0.0	75.1
Total	Lumens	8625.4	0.0	8625.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	94.8	1.1
10°-20°	313.4	3.6
20°-30°	604.0	7.0
30°-40°	1059.0	12.3
40°-50°	1574.5	18.3
50°-60°	1995.8	23.1
60°-70°	1952.8	22.6
70°-80°	931.5	10.8
80°-90°	99.5	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°	8625.4	100.0
0°-180°	8625.4	100.0

Coefficient of Utilization



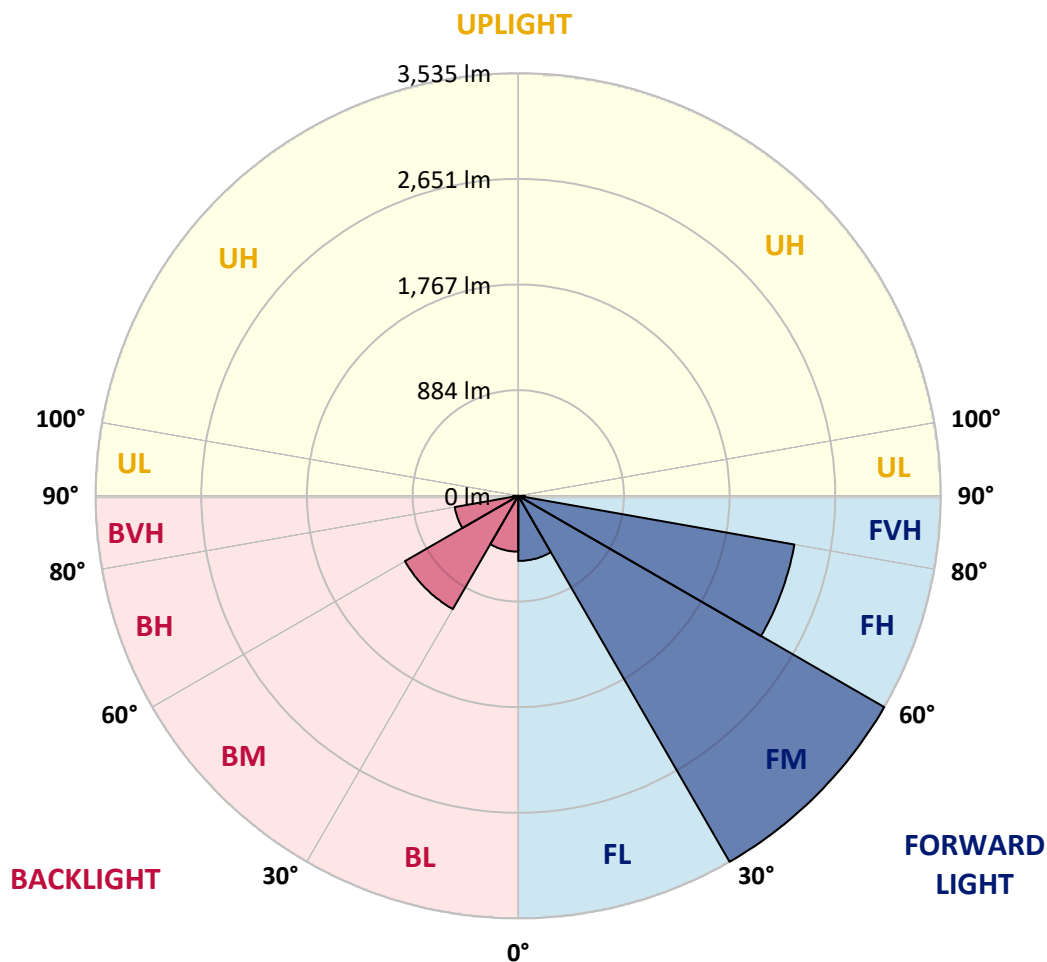
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	545.0	6.3			
FM (30°-60°)	3534.6	41.0			
FH (60°-80°)	2344.6	27.2			G2/5000
FVH (80°-90°)	56.4	0.7			G1/100
BL (0°-30°)	467.2	5.4	B1/500		
BM (30°-60°)	1094.7	12.7	B2/2500		
BH (60°-80°)	539.7	6.3	B2/1000		G2/1000
BVH (80°-90°)	43.1	0.5			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 III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	956.6	956.6	956.6	956.6	956.6	956.6	956.6	956.6	956.6	956.6	956.6
2.5°	946.7	952.1	950.8	948.5	948.0	948.9	950.3	951.7	951.2	953.5	957.1
5°	944.0	949.5	948.9	948.9	950.8	954.4	956.6	958.9	956.6	959.4	964.4
7.5°	945.8	949.9	951.7	953.5	958.1	964.8	970.3	975.3	972.5	975.7	982.1
10°	968.9	972.1	973.9	973.9	977.0	984.7	990.3	999.3	997.0	1001.9	1010.1
12.5°	1011.1	1014.2	1014.2	1012.4	1014.6	1019.7	1021.5	1031.5	1027.4	1035.6	1043.7
15°	1062.7	1069.1	1064.1	1060.9	1061.8	1066.8	1066.3	1074.0	1070.0	1076.8	1084.0
17.5°	1119.8	1128.0	1119.8	1119.4	1117.6	1123.0	1123.4	1130.3	1123.0	1128.0	1132.9
20°	1187.4	1198.6	1191.9	1194.1	1190.0	1192.3	1194.6	1204.6	1193.2	1196.9	1195.5
22.5°	1282.5	1296.1	1288.8	1297.4	1294.8	1292.9	1292.5	1310.2	1292.5	1293.9	1280.7
25°	1421.2	1437.5	1424.9	1436.5	1436.5	1442.5	1449.2	1471.9	1442.5	1433.9	1399.8
27.5°	1626.1	1642.4	1617.4	1624.6	1622.4	1636.9	1629.6	1685.8	1654.1	1640.1	1571.6
30°	1872.6	1901.6	1854.4	1852.6	1850.3	1873.5	1883.8	1921.1	1888.9	1874.8	1792.3
32.5°	2139.0	2169.4	2113.1	2096.8	2088.2	2102.3	2093.7	2123.6	2101.5	2079.6	1977.7
35°	2420.9	2450.8	2397.4	2365.6	2331.2	2301.7	2270.9	2278.6	2257.8	2224.7	2119.1
37.5°	2687.3	2742.2	2685.6	2651.6	2588.1	2530.5	2444.4	2408.6	2389.2	2358.8	2252.3
40°	2958.9	2990.1	2947.1	2918.1	2849.2	2759.0	2621.2	2545.5	2519.2	2489.8	2399.6
42.5°	3158.6	3188.6	3165.5	3145.5	3091.6	2987.0	2808.8	2714.1	2676.1	2643.0	2566.4
45°	3317.3	3339.4	3325.0	3332.3	3309.1	3207.6	3003.2	2894.9	2855.5	2815.2	2754.9
47.5°	3381.2	3404.7	3427.9	3471.0	3510.3	3435.6	3212.1	3090.7	3049.0	3007.8	2948.4
50°	3374.0	3398.0	3465.0	3556.5	3678.9	3654.0	3432.4	3299.2	3260.6	3213.5	3158.6
52.5°	3316.0	3343.1	3429.2	3581.5	3776.4	3817.6	3656.7	3514.4	3478.1	3422.0	3367.1
55°	3163.7	3180.0	3309.1	3524.9	3799.5	3931.8	3876.6	3743.7	3707.5	3629.1	3569.3
57.5°	2881.4	2904.8	3092.9	3372.1	3741.5	4009.3	4069.6	3984.8	3949.9	3837.1	3774.6
60°	2512.9	2550.5	2765.8	3115.6	3593.8	4008.9	4244.9	4221.9	4192.9	4042.0	3976.7
62.5°	2095.9	2139.5	2346.5	2753.0	3335.5	3895.1	4354.6	4420.3	4405.3	4230.9	4147.6
65°	1609.7	1639.6	1845.8	2284.0	2933.4	3650.8	4367.3	4555.8	4558.6	4374.6	4236.8
67.5°	1071.7	1157.8	1336.9	1713.9	2395.1	3251.6	4255.8	4578.1	4604.3	4424.0	4191.9
70°	523.0	636.2	811.7	1114.0	1713.9	2639.4	3964.4	4395.9	4454.3	4279.9	3924.5
72.5°	217.1	253.8	349.4	549.7	983.9	1781.0	3378.9	3901.9	4010.2	3792.2	3299.6
75°	146.4	158.6	199.9	281.9	448.2	878.2	2436.7	2909.5	3083.9	2864.2	2341.1
77.5°	112.9	120.5	145.4	197.1	266.5	332.2	1304.2	1753.4	1843.6	1706.7	1218.1
80°	88.9	94.7	108.8	143.7	189.0	177.6	444.5	794.5	846.5	710.1	391.5
82.5°	77.1	79.3	77.9	97.5	125.6	103.7	146.0	293.3	323.6	234.7	127.8
85°	55.8	62.1	64.8	60.3	66.6	52.6	59.9	103.7	114.2	102.0	72.1
87.5°	22.7	33.5	41.2	38.9	24.5	15.0	18.6	30.3	34.8	38.0	23.6
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°	956.6	956.6	956.6	956.6	956.6	956.6	956.6	956.6	956.6	956.6	956.6
2.5°	957.6	960.7	963.0	965.8	967.5	970.3	975.7	978.9	979.3	981.6	981.1
5°	966.2	970.7	975.7	983.0	991.1	997.9	1008.3	1015.6	1018.3	1020.6	1020.1
7.5°	984.7	991.1	1000.2	1012.9	1024.7	1033.7	1046.4	1055.0	1063.6	1066.8	1067.2
10°	1012.4	1021.5	1034.6	1051.9	1064.6	1076.4	1089.5	1096.8	1105.4	1108.9	1110.8
12.5°	1046.8	1056.4	1073.6	1097.6	1109.4	1117.6	1122.1	1120.2	1122.1	1125.2	1126.2
15°	1086.3	1096.8	1116.2	1142.1	1150.2	1142.9	1132.9	1123.9	1122.6	1123.4	1126.6
17.5°	1132.9	1140.6	1163.3	1185.1	1179.2	1149.2	1127.5	1113.0	1105.8	1103.5	1106.7
20°	1198.2	1198.2	1216.8	1230.4	1190.9	1140.2	1106.2	1082.6	1067.7	1061.4	1060.0
22.5°	1277.6	1270.3	1282.1	1272.5	1188.7	1114.8	1067.7	1026.9	1004.3	995.2	993.8
25°	1378.1	1369.5	1366.3	1307.4	1172.4	1074.5	997.9	948.5	928.5	923.6	924.4
27.5°	1529.9	1508.2	1467.0	1326.5	1142.5	1011.1	916.4	870.5	859.3	859.7	861.0
30°	1732.0	1688.6	1587.5	1329.6	1093.6	921.3	832.9	800.3	794.9	797.1	804.8
32.5°	1919.2	1878.0	1710.7	1315.2	1018.3	833.4	758.2	736.5	728.3	731.0	734.6
35°	2066.1	2054.7	1825.0	1294.8	925.9	750.9	691.1	672.5	656.6	653.0	655.8
37.5°	2204.8	2200.2	1910.6	1266.2	834.4	692.5	637.1	612.7	589.6	576.9	577.4
40°	2357.0	2352.5	1966.8	1222.2	753.2	641.8	588.7	556.5	528.0	504.8	507.1
42.5°	2528.3	2501.6	1993.5	1159.3	684.3	598.7	549.3	505.7	468.1	446.8	448.2
45°	2715.4	2655.2	1993.1	1079.0	626.3	559.2	507.1	445.5	410.6	390.6	389.7
47.5°	2914.0	2802.0	1968.6	990.3	570.1	515.7	441.9	394.7	371.6	359.4	356.7
50°	3118.8	2939.3	1926.9	888.3	512.5	466.4	401.1	368.9	351.3	339.9	335.8
52.5°	3311.4	3063.9	1876.7	772.6	454.1	418.3	382.9	358.0	339.5	326.8	321.3
55°	3490.4	3171.4	1805.4	654.4	406.5	386.1	374.3	353.5	332.2	317.2	311.3
57.5°	3649.5	3241.2	1682.6	543.4	372.5	363.9	365.3	345.7	321.3	308.6	300.4
60°	3781.8	3292.4	1500.9	440.4	344.9	342.1	351.3	331.3	302.7	288.2	281.9
62.5°	3861.1	3291.5	1278.0	360.7	321.3	322.3	332.6	313.1	284.1	270.6	266.5
65°	3854.3	3210.8	1033.3	308.6	298.7	299.5	313.1	293.3	268.8	260.6	260.1
67.5°	3717.9	3014.1	792.6	274.6	273.7	277.8	293.7	279.6	259.2	258.3	259.6
70°	3348.6	2605.8	571.0	247.4	247.8	253.8	274.6	271.0	254.2	256.0	255.6
72.5°	2685.1	1986.8	383.3	218.8	219.4	228.9	256.5	264.2	249.3	273.3	276.9
75°	1788.2	1239.0	246.5	188.5	189.0	201.2	240.7	251.0	235.6	272.3	274.6
77.5°	859.3	557.0	178.6	158.6	158.6	169.9	208.0	224.8	200.8	211.7	193.9
80°	296.8	209.4	140.5	127.8	125.0	132.7	175.4	194.9	173.1	159.5	149.5
82.5°	117.0	108.8	112.9	99.2	90.2	95.1	136.4	160.9	127.3	115.1	114.7
85°	67.0	70.7	79.7	65.7	52.1	58.4	100.1	115.5	96.0	84.8	86.5
87.5°	18.1	24.9	36.7	34.0	23.6	24.9	47.6	63.9	55.2	42.6	44.0
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)