

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: P882041

Luminaire Tested: **NAV-SB1D-722-U-T4FT**

Issue Date: 10/7/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P882041  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-24)  
Test Lab: INNOVATION CENTER  
Issue Date: 10/7/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMARK  
Catalog Number: NAV-SB1D-722-U-T4FT  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(1) 70 CRI, 2200K, 900mA LIGHTSQUARE WITH 26 LEDS AND TYPE IV FORWARD  
THROW OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

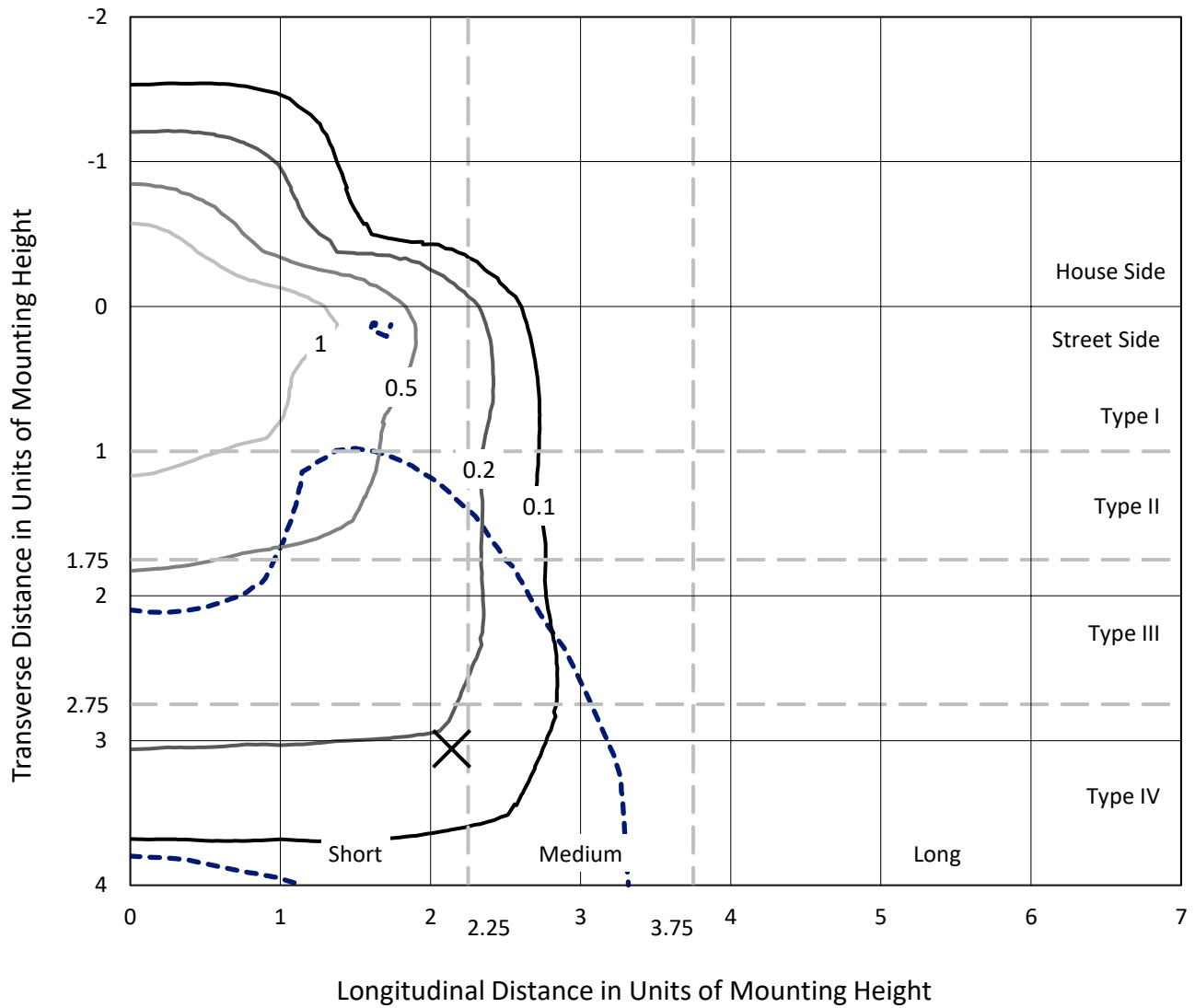
Lumens per Lamp: N/A  
Luminaire Lumens: 8022 lumens  
Efficiency: N/A  
Efficacy: 100.8 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 79.6  
Input Voltage (V): 120.0  
Input Current (Ain): 0.638  
Voltage Rise (V): NR  
Power Factor: 0.997  
Total Harmonic Distortion (THDi): 6.673  
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

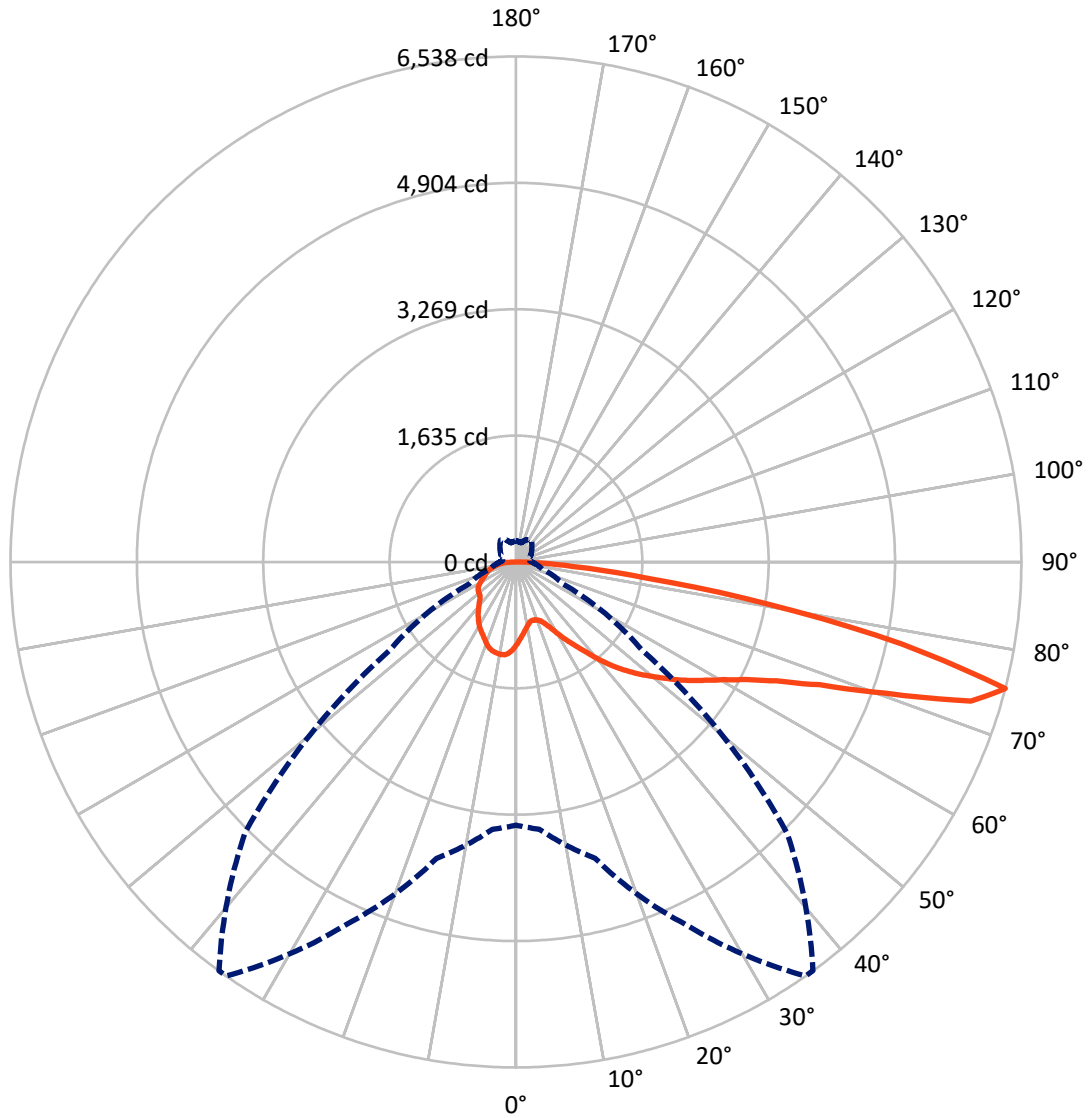
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.9 fc  
 Type 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
<b>House Side</b>	Lumens	1909.0	0.0	1909.0
	% Fixture	23.8	0.0	23.8
<b>Street Side</b>	Lumens	6113.0	0.0	6113.0
	% Fixture	76.2	0.0	76.2
<b>Total</b>	Lumens	8022.0	0.0	8022.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	101.2	1.3
10°-20°	291.9	3.6
20°-30°	490.2	6.1
30°-40°	761.9	9.5
40°-50°	1130.9	14.1
50°-60°	1561.2	19.5
60°-70°	1894.1	23.6
70°-80°	1565.3	19.5
80°-90°	225.1	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°	8022.0	100.0
0°-180°	8022.0	100.0



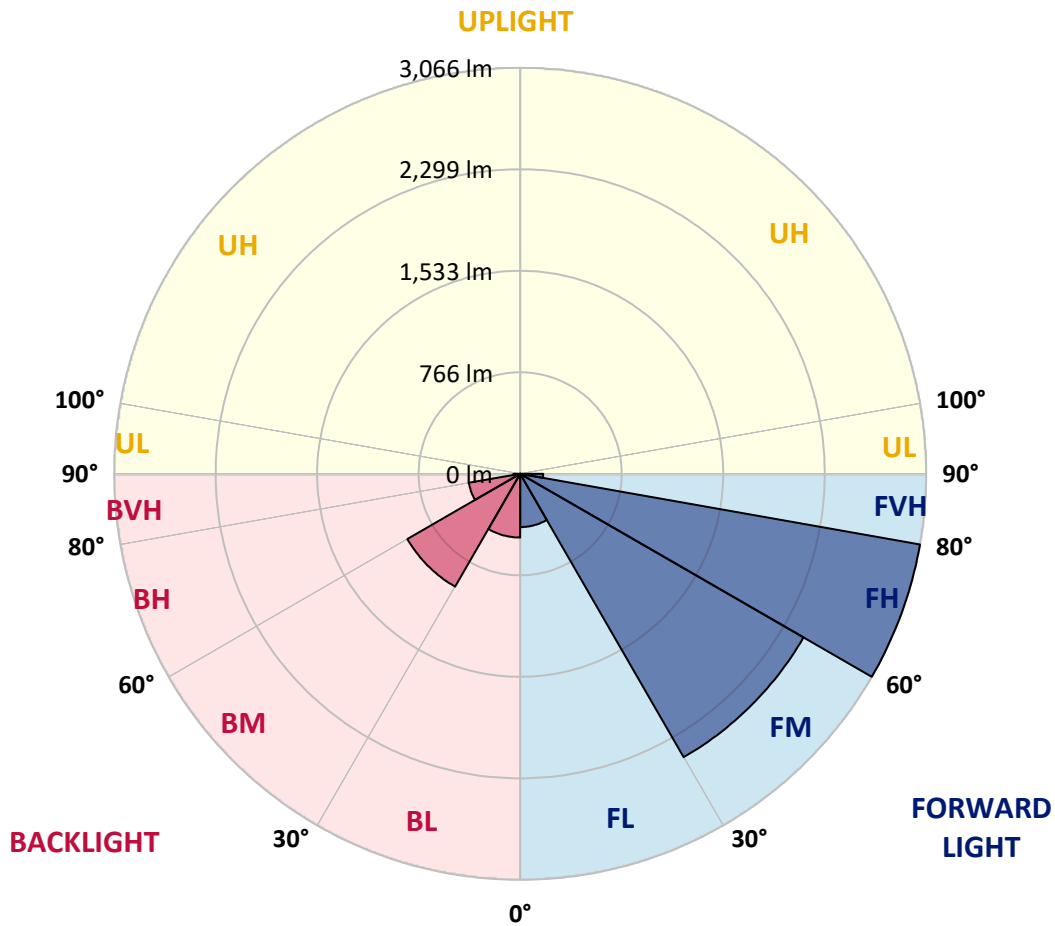
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	402.3	5.0			
FM (30°-60°)	2470.3	30.8			
FH (60°-80°)	3065.9	38.2			G2/5000
FVH (80°-90°)	174.4	2.2			G2/225
BL (0°-30°)	481.1	6.0	B1/500		
BM (30°-60°)	983.7	12.3	B1/1000		
BH (60°-80°)	393.6	4.9	B1/500		G1/500
BVH (80°-90°)	50.7	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°	1069.0	1069.0	1069.0	1069.0	1069.0	1069.0	1069.0	1069.0	1069.0	1069.0	1069.0
2.5°	985.7	991.8	994.4	993.1	999.6	998.7	1007.8	1019.1	1034.7	1049.9	1072.0
5°	909.8	916.3	922.0	927.2	939.8	943.7	958.0	979.7	1008.3	1037.3	1073.8
7.5°	839.1	844.8	853.5	863.0	884.2	888.1	912.0	945.8	985.7	1028.2	1078.5
10°	781.5	787.1	796.2	807.1	833.5	838.3	868.6	913.7	965.8	1019.5	1083.7
12.5°	756.7	758.5	763.7	774.5	797.5	800.5	833.9	885.5	946.3	1013.0	1091.5
15°	755.4	758.9	759.3	765.0	784.1	785.4	816.2	867.3	934.1	1011.7	1103.2
17.5°	768.5	771.1	767.2	770.6	786.7	788.8	813.1	858.7	930.2	1017.4	1123.2
20°	803.1	805.3	793.6	788.8	800.5	802.3	826.1	864.3	934.1	1029.1	1150.5
22.5°	876.9	878.2	849.6	830.0	830.9	831.8	852.6	887.3	949.3	1050.3	1185.2
25°	991.8	990.9	945.4	907.7	886.0	881.2	895.1	924.6	974.9	1078.5	1229.9
27.5°	1126.2	1119.7	1074.2	1017.8	970.5	963.6	960.6	973.1	1011.3	1115.8	1284.5
30°	1278.0	1271.9	1222.9	1149.2	1083.7	1072.5	1043.8	1037.3	1065.5	1166.6	1360.4
32.5°	1444.5	1440.6	1382.1	1292.8	1205.2	1192.1	1144.0	1126.7	1148.8	1243.3	1466.2
35°	1584.2	1580.7	1532.1	1440.2	1333.1	1317.0	1268.0	1248.5	1259.8	1341.8	1604.6
37.5°	1710.4	1708.6	1667.0	1594.6	1484.0	1464.5	1409.4	1402.9	1400.7	1471.4	1772.4
40°	1827.5	1823.1	1779.8	1741.6	1659.6	1641.9	1593.3	1587.6	1571.2	1631.0	1962.3
42.5°	1957.1	1945.9	1883.0	1865.2	1843.1	1828.3	1799.3	1800.1	1763.7	1811.0	2163.6
45°	2062.9	2056.4	1991.8	1981.4	2005.3	1999.2	2024.4	2030.9	1960.2	1999.6	2372.6
47.5°	2176.6	2170.5	2115.9	2108.5	2173.1	2174.8	2263.7	2265.9	2151.8	2195.6	2582.0
50°	2316.6	2308.0	2253.8	2262.9	2335.3	2341.8	2504.4	2489.7	2328.4	2394.7	2789.8
52.5°	2409.0	2414.2	2402.5	2417.3	2516.1	2522.2	2741.2	2703.5	2503.1	2591.2	2993.6
55°	2477.1	2487.5	2523.9	2557.8	2706.9	2713.0	2964.5	2906.9	2648.0	2773.3	3185.3
57.5°	2564.7	2550.0	2618.0	2684.0	2888.2	2904.3	3181.8	3102.9	2776.3	2930.3	3316.7
60°	2690.5	2680.1	2733.0	2830.5	3091.2	3116.8	3411.6	3279.4	2870.4	3054.7	3342.3
62.5°	2945.5	2919.4	2927.7	3014.0	3347.0	3380.9	3671.0	3433.3	2917.3	3103.3	3205.2
65°	3326.6	3282.0	3240.3	3300.2	3707.4	3740.8	3963.7	3554.3	2899.9	3009.2	2841.4
67.5°	3806.7	3762.5	3711.3	3767.7	4238.2	4264.7	4324.9	3622.4	2763.3	2646.7	2198.3
70°	4202.7	4186.2	4247.3	4479.3	5086.0	5086.9	4788.1	3566.0	2389.1	1876.5	1271.9
72.5°	4150.2	4140.2	4462.4	5179.7	6154.6	6131.6	5226.5	3139.3	1609.3	846.5	476.6
75°	3404.7	3469.3	3968.5	5167.1	6538.4	6535.3	4958.1	1995.7	665.7	350.8	246.3
77.5°	1825.7	1928.1	2576.4	3815.0	5104.2	5181.0	3485.8	698.2	285.8	224.6	170.4
80°	595.4	684.8	1026.9	1942.4	3316.7	3302.4	1494.0	274.1	195.6	159.2	118.0
82.5°	252.8	263.2	458.8	917.2	1702.1	1675.7	475.7	157.4	137.5	108.9	72.9
85°	98.9	110.6	202.5	424.1	737.2	721.2	171.7	78.1	88.0	71.1	43.4
87.5°	32.5	39.5	72.4	145.3	229.4	221.2	42.1	26.9	38.2	32.5	15.6
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°	1069.0	1069.0	1069.0	1069.0	1069.0	1069.0	1069.0	1069.0	1069.0	1069.0	1069.0
2.5°	1078.1	1085.0	1093.3	1105.4	1115.8	1124.5	1133.6	1139.2	1141.4	1147.9	1147.5
5°	1085.9	1101.1	1121.5	1141.4	1160.9	1172.6	1183.0	1188.2	1193.0	1196.5	1197.4
7.5°	1098.9	1118.4	1150.5	1176.5	1193.0	1202.6	1209.5	1207.8	1209.5	1210.4	1211.7
10°	1110.2	1137.5	1175.7	1200.4	1213.0	1213.4	1211.7	1205.6	1202.6	1203.0	1203.9
12.5°	1123.6	1154.0	1195.2	1216.0	1219.5	1209.9	1202.6	1192.1	1188.2	1186.5	1185.6
15°	1141.8	1176.5	1216.4	1224.2	1215.6	1203.4	1190.8	1173.9	1165.3	1158.3	1160.5
17.5°	1164.0	1202.1	1232.9	1227.3	1208.6	1188.7	1168.3	1142.7	1124.9	1117.6	1118.0
20°	1194.7	1229.0	1245.5	1220.8	1192.6	1162.2	1127.5	1096.3	1079.8	1072.5	1071.6
22.5°	1232.0	1265.0	1257.6	1209.5	1169.6	1121.0	1077.7	1054.7	1046.4	1041.2	1042.1
25°	1276.7	1304.9	1266.3	1193.0	1131.9	1066.4	1033.0	1025.6	1021.7	1017.8	1017.8
27.5°	1334.8	1350.0	1272.8	1168.7	1072.9	1008.3	996.1	997.4	996.1	989.6	990.9
30°	1411.6	1408.5	1278.9	1129.3	1005.2	955.8	956.7	962.3	963.2	958.8	961.0
32.5°	1512.6	1481.8	1281.9	1078.1	940.6	909.8	910.7	916.8	921.1	913.7	917.2
35°	1634.9	1567.3	1277.1	1013.9	890.7	866.0	859.5	861.3	862.6	855.6	860.4
37.5°	1777.6	1663.1	1255.9	942.8	849.6	823.1	809.2	797.5	790.6	784.1	788.4
40°	1934.1	1767.6	1216.9	873.4	803.6	777.6	756.7	734.6	711.2	702.5	706.4
42.5°	2098.1	1875.2	1169.6	807.1	750.7	729.4	707.3	675.2	640.1	622.3	624.5
45°	2268.1	1985.3	1123.2	741.6	696.5	687.4	661.8	623.2	585.0	562.5	560.7
47.5°	2434.6	2089.4	1055.1	675.7	645.7	655.7	635.8	600.2	557.7	522.1	518.2
50°	2593.8	2187.0	943.7	608.9	604.5	646.2	627.1	575.9	527.3	481.8	477.9
52.5°	2751.6	2265.9	801.0	548.2	582.4	643.6	615.8	559.4	500.0	452.3	447.1
55°	2885.6	2306.7	663.5	496.1	550.3	621.4	602.4	539.9	461.4	410.7	406.3
57.5°	2961.9	2273.7	549.0	444.9	506.1	585.0	579.4	498.3	415.5	376.4	371.2
60°	2929.0	2140.1	455.3	400.3	464.0	545.6	539.5	457.1	380.3	343.5	338.3
62.5°	2747.3	1885.6	381.2	361.2	425.9	505.2	499.6	425.4	353.4	317.9	312.2
65°	2381.3	1533.9	323.5	328.7	387.3	456.6	464.9	399.0	332.2	297.5	291.9
67.5°	1816.2	1111.1	278.4	300.5	349.5	408.9	432.8	379.9	314.4	281.4	276.2
70°	1035.2	631.0	240.3	273.2	316.1	364.7	408.1	364.7	295.3	268.0	264.5
72.5°	392.5	289.7	207.7	245.9	284.1	327.4	380.8	340.9	273.2	252.8	249.4
75°	209.5	176.5	174.8	213.8	247.2	291.0	346.5	317.4	256.7	267.1	275.8
77.5°	142.7	124.9	146.1	183.0	206.9	250.7	310.1	281.9	222.5	221.6	204.3
80°	98.9	88.5	118.8	147.4	160.0	210.8	270.6	242.0	181.3	169.1	161.8
82.5°	59.4	57.7	88.9	110.2	113.2	162.6	224.2	203.0	148.3	129.2	130.1
85°	32.5	34.3	56.8	64.6	65.9	113.6	175.6	157.0	114.1	95.8	96.7
87.5°	9.1	11.7	20.8	25.6	31.7	59.0	104.5	93.2	57.2	39.9	39.9
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)