

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: P960252

Luminaire Tested: **NAV-SB1C-722-U-SL4**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P960252
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-9)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB1C-722-U-SL4
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 2200K, 615mA LIGHTSQUARE WITH 26 LEDS AND TYPE IV SPILL LIGHT
ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6288.4 lumens
Efficiency: N/A
Efficacy: 115.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B2 - U0 - G2

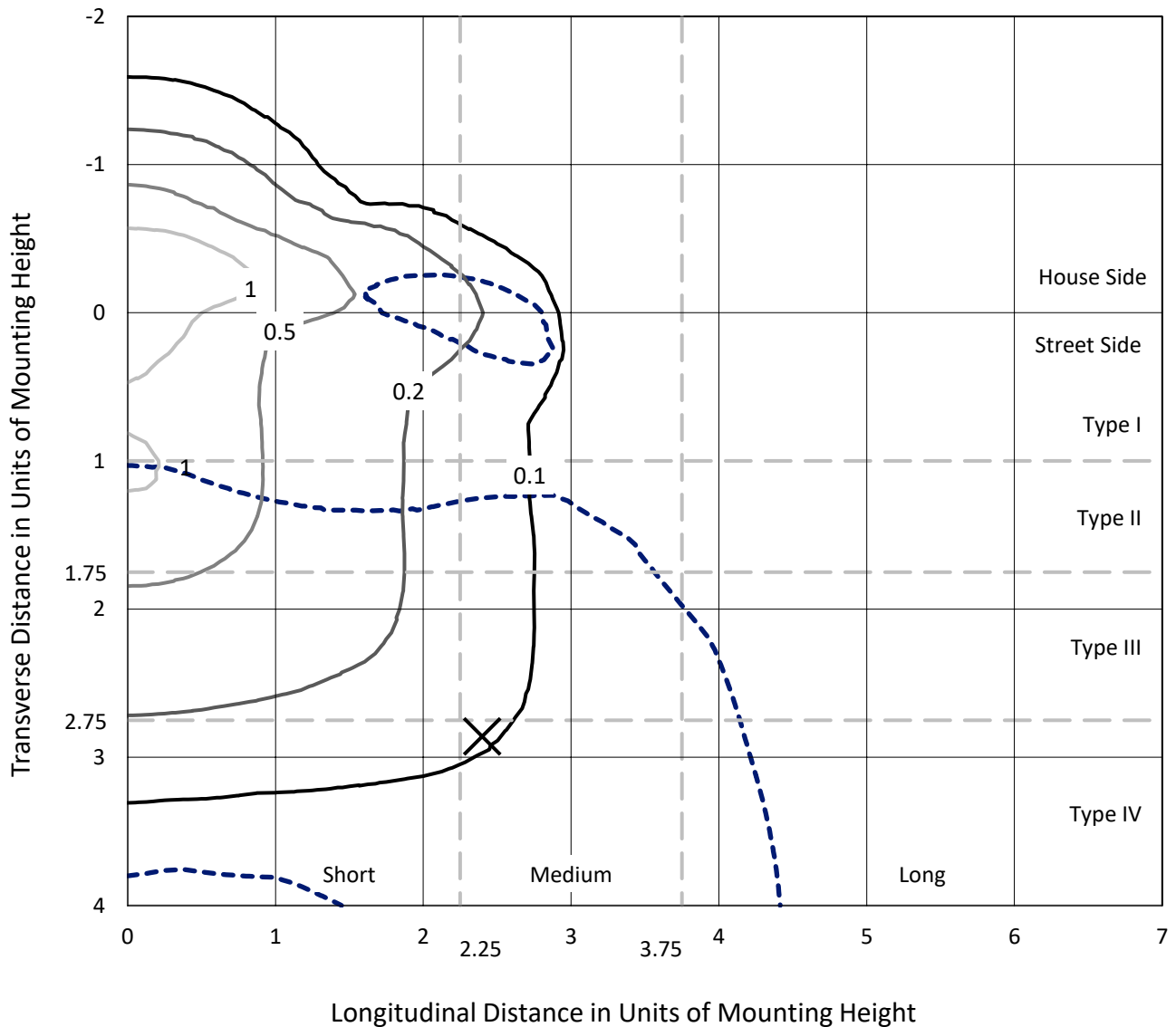
Input Watts (W): 54.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

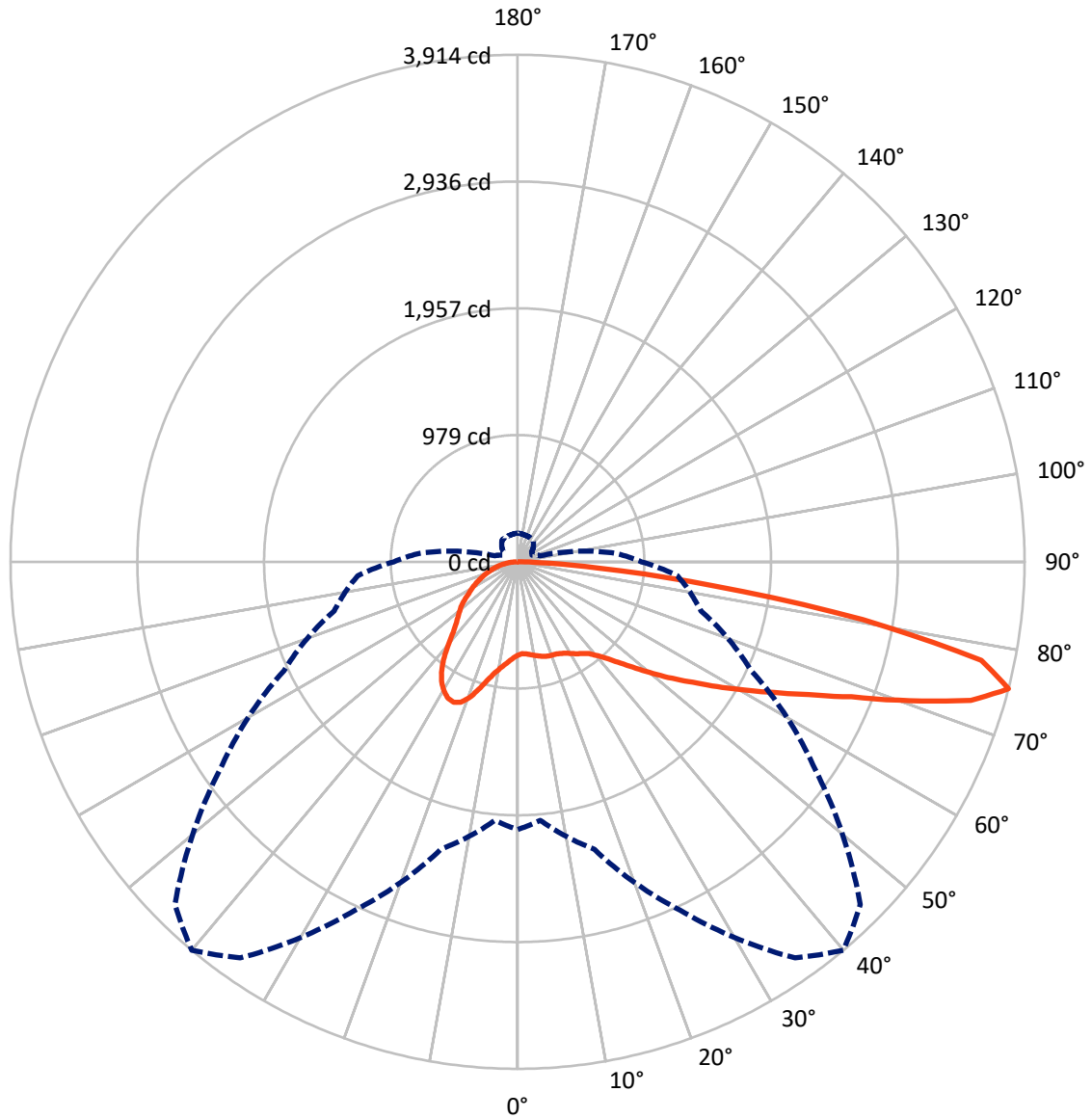
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.5 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1948.4	0.0	1948.4
	% Fixture	31.0	0.0	31.0
Street Side	Lumens	4340.0	0.0	4340.0
	% Fixture	69.0	0.0	69.0
Total	Lumens	6288.4	0.0	6288.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	71.8	1.1
10°-20°	241.0	3.8
20°-30°	440.0	7.0
30°-40°	624.1	9.9
40°-50°	842.7	13.4
50°-60°	1133.7	18.0
60°-70°	1438.9	22.9
70°-80°	1305.9	20.8
80°-90°	190.4	3.0
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°	6288.4	100.0
0°-180°	6288.4	100.0

Coefficient of Utilization

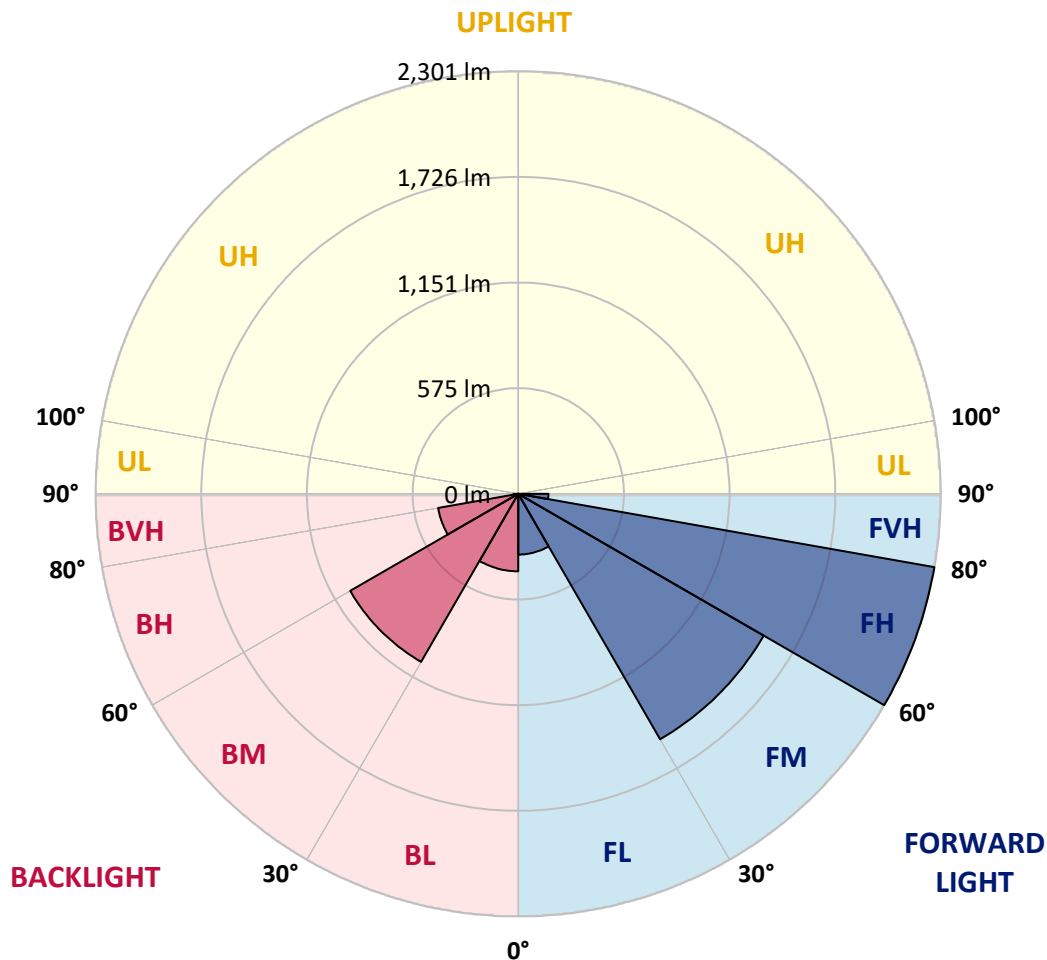


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	330.8	5.3			
FM (30°-60°)	1543.7	24.5			
FH (60°-80°)	2301.4	36.6			G2/5000
FVH (80°-90°)	164.1	2.6			G2/225
BL (0°-30°)	422.0	6.7	B1/500		
BM (30°-60°)	1056.8	16.8	B2/2500		
BH (60°-80°)	443.3	7.0	B1/500		G1/500
BVH (80°-90°)	26.2	0.4			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 IV Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	719.0	719.0	719.0	719.0	719.0	719.0	719.0	719.0	719.0	719.0	719.0
2.5°	708.1	712.1	711.0	709.7	709.7	710.1	709.7	712.1	714.4	716.8	720.4
5°	715.4	719.4	717.4	715.8	714.4	714.1	713.1	712.8	714.1	717.1	722.1
7.5°	729.8	733.8	730.7	727.7	725.1	723.8	722.4	720.4	719.4	721.1	728.1
10°	745.8	749.8	746.1	740.8	736.5	734.7	733.4	731.4	730.1	731.1	738.7
12.5°	761.8	765.8	760.8	753.5	747.7	746.8	745.1	744.5	744.0	743.7	751.4
15°	776.7	780.1	773.8	765.1	759.1	757.5	755.7	756.8	758.4	760.4	769.2
17.5°	788.4	791.8	782.5	771.1	765.5	764.8	763.7	767.1	771.8	776.7	787.5
20°	799.1	802.5	790.5	775.1	768.4	768.4	768.7	775.8	782.5	789.8	804.4
22.5°	814.2	816.8	802.2	781.2	771.4	772.1	774.8	781.8	790.2	800.1	820.5
25°	836.5	838.4	820.5	792.4	781.5	783.4	785.8	789.1	797.1	808.8	836.2
27.5°	872.5	874.2	850.4	812.5	795.8	799.1	802.5	800.1	803.8	813.8	848.8
30°	923.2	924.2	894.2	843.8	820.1	821.8	822.5	812.8	805.8	813.8	857.8
32.5°	983.3	982.9	947.2	881.8	847.8	846.1	840.5	821.4	805.1	812.1	865.8
35°	1076.2	1072.7	1026.6	935.2	879.1	868.8	855.5	831.2	808.5	810.5	872.9
37.5°	1230.4	1219.0	1155.4	1022.6	925.9	899.5	879.9	846.9	815.8	809.9	881.2
40°	1404.1	1389.8	1319.8	1142.4	995.9	953.6	921.9	869.2	827.8	812.8	893.5
42.5°	1610.3	1589.9	1514.5	1283.4	1084.7	1023.3	975.6	897.5	845.5	822.5	910.2
45°	1863.4	1836.4	1729.7	1442.5	1196.4	1114.7	1050.9	940.5	872.5	841.1	935.2
47.5°	2119.2	2125.8	1974.2	1624.6	1330.4	1227.3	1145.3	1005.2	911.8	871.1	975.6
50°	2391.0	2395.7	2217.3	1826.3	1482.6	1354.7	1251.4	1077.6	966.6	913.9	1036.0
52.5°	2603.2	2603.8	2438.1	2037.5	1640.9	1494.9	1365.8	1160.3	1029.9	970.6	1116.3
55°	2735.9	2734.3	2592.8	2237.3	1823.1	1641.9	1492.5	1254.4	1107.3	1037.3	1217.4
57.5°	2832.3	2827.3	2699.5	2409.1	2017.2	1815.7	1635.9	1361.1	1198.7	1116.6	1350.4
60°	2869.0	2866.0	2771.9	2557.5	2221.3	2007.9	1801.3	1480.5	1302.5	1210.3	1521.5
62.5°	2883.0	2888.7	2842.9	2701.3	2439.7	2220.7	1983.2	1623.3	1419.1	1316.4	1702.0
65°	2932.3	2942.7	2933.3	2889.4	2686.5	2469.7	2224.2	1793.0	1546.5	1430.2	1890.4
67.5°	3030.1	3040.5	3044.5	3114.5	2988.1	2780.3	2525.1	2004.5	1695.7	1548.3	2032.2
70°	3027.7	3024.8	3095.5	3293.5	3365.6	3210.2	2930.7	2264.6	1873.4	1646.3	2050.2
72.5°	2755.9	2731.9	2899.0	3291.6	3679.9	3659.1	3426.0	2600.2	2026.8	1658.2	1779.0
75°	2067.5	2003.5	2298.7	2966.4	3732.1	3914.0	3740.8	2808.3	1990.4	1465.1	1238.1
77.5°	884.2	819.8	1167.7	2196.0	3340.3	3658.8	3452.0	2450.1	1589.0	968.9	608.0
80°	231.4	231.1	352.9	995.6	2271.6	2701.9	2370.4	1582.3	907.8	346.2	167.8
82.5°	95.7	93.4	129.8	387.2	1110.0	1516.2	1237.4	705.7	327.9	93.7	55.7
85°	35.7	35.4	63.0	133.8	391.5	625.4	452.6	180.4	81.7	45.7	25.0
87.5°	10.0	9.6	13.6	46.3	95.4	144.7	77.4	29.7	23.1	18.0	7.4
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°	719.0	719.0	719.0	719.0	719.0	719.0	719.0	719.0	719.0	719.0	719.0
2.5°	721.4	723.1	726.1	728.5	731.4	734.7	739.4	742.4	745.5	747.4	746.1
5°	724.5	728.1	735.7	743.4	752.5	760.8	770.5	777.5	783.1	784.7	785.5
7.5°	731.1	737.1	750.1	763.1	777.5	791.1	805.1	817.1	826.8	830.5	830.9
10°	742.7	750.8	769.2	787.5	806.5	827.5	845.5	862.8	876.5	882.2	882.5
12.5°	757.5	767.4	791.5	816.8	843.2	872.2	895.5	916.9	933.9	941.6	941.6
15°	776.4	789.5	820.1	854.1	892.9	933.2	962.9	986.6	1005.6	1015.0	1014.2
17.5°	797.1	814.5	853.2	904.6	959.9	1012.9	1047.7	1065.0	1084.7	1093.7	1093.3
20°	817.1	838.4	893.9	968.5	1042.3	1098.6	1126.7	1131.3	1132.6	1133.6	1136.3
22.5°	837.8	866.5	944.8	1049.3	1128.3	1167.4	1171.4	1151.4	1123.3	1110.3	1114.0
25°	860.5	898.5	1011.6	1138.4	1202.3	1207.0	1176.4	1127.7	1074.6	1050.3	1053.9
27.5°	882.5	935.5	1091.6	1223.3	1255.7	1214.7	1148.7	1079.6	1015.6	989.9	992.9
30°	904.6	977.8	1180.0	1297.8	1280.1	1195.7	1104.9	1028.0	963.6	936.5	939.5
32.5°	926.9	1027.3	1281.8	1351.5	1275.7	1155.4	1050.6	969.9	913.2	884.9	888.5
35°	952.2	1087.9	1378.1	1380.8	1246.7	1095.9	978.9	900.6	851.2	828.5	833.5
37.5°	985.2	1165.0	1463.2	1388.2	1196.1	1008.9	889.8	818.5	777.8	767.4	774.8
40°	1026.2	1257.8	1528.2	1376.5	1120.9	903.2	792.4	735.4	712.4	714.7	722.7
42.5°	1079.6	1361.5	1573.9	1346.4	1016.6	794.2	707.0	681.7	692.7	702.1	710.7
45°	1149.0	1469.2	1602.3	1295.4	898.5	701.7	656.7	662.8	671.1	672.1	678.8
47.5°	1237.7	1578.3	1620.9	1218.4	778.1	636.7	624.7	626.1	624.3	617.4	622.7
50°	1348.5	1684.3	1637.6	1116.3	675.7	596.0	580.0	575.3	552.3	529.6	532.7
52.5°	1474.6	1781.7	1644.6	989.5	596.0	562.0	536.0	506.7	463.6	456.6	458.9
55°	1614.6	1871.8	1626.6	833.8	529.0	518.3	479.0	443.6	438.9	433.0	433.9
57.5°	1782.1	1968.8	1589.9	660.1	460.2	467.3	429.0	433.0	424.6	415.2	413.6
60°	1965.1	2069.2	1525.5	501.6	389.2	403.5	415.9	415.5	413.3	405.6	402.9
62.5°	2130.0	2135.3	1398.8	384.3	326.9	354.2	387.9	387.6	385.6	381.2	379.6
65°	2227.9	2125.2	1187.4	302.5	275.5	313.5	349.8	352.5	352.9	352.5	352.5
67.5°	2210.6	2008.2	897.2	240.8	233.1	272.1	312.2	315.8	318.5	319.2	319.9
70°	2014.5	1751.0	585.0	192.1	195.5	235.9	276.5	280.1	282.5	285.2	286.5
72.5°	1570.2	1287.4	334.9	155.4	162.5	204.5	241.2	245.5	246.8	251.8	253.8
75°	956.9	757.1	180.8	122.4	133.5	174.8	206.1	211.2	213.5	219.5	220.2
77.5°	454.9	327.9	103.0	95.4	107.4	142.8	174.1	179.8	173.4	176.8	174.1
80°	153.8	121.8	65.1	72.7	82.0	111.4	139.4	145.0	131.7	131.1	129.8
82.5°	53.7	49.4	41.3	48.4	53.0	79.7	105.4	112.7	98.1	97.7	93.1
85°	21.0	20.0	23.1	26.3	31.7	49.0	69.4	73.1	60.4	48.7	48.1
87.5°	4.3	4.7	5.6	6.0	9.6	17.0	25.0	30.6	24.4	20.7	19.0
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)