

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: P881527

Luminaire Tested: **NAV-SB1A-722-U-T2**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P881527
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-3)
Test Lab: INNOVATION CENTER
Issue Date: 10/7/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB1A-722-U-T2
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 2200K, 350mA LIGHTSQUARE WITH 26 LEDS AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3545 lumens
Efficiency: N/A
Efficacy: 114.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G1

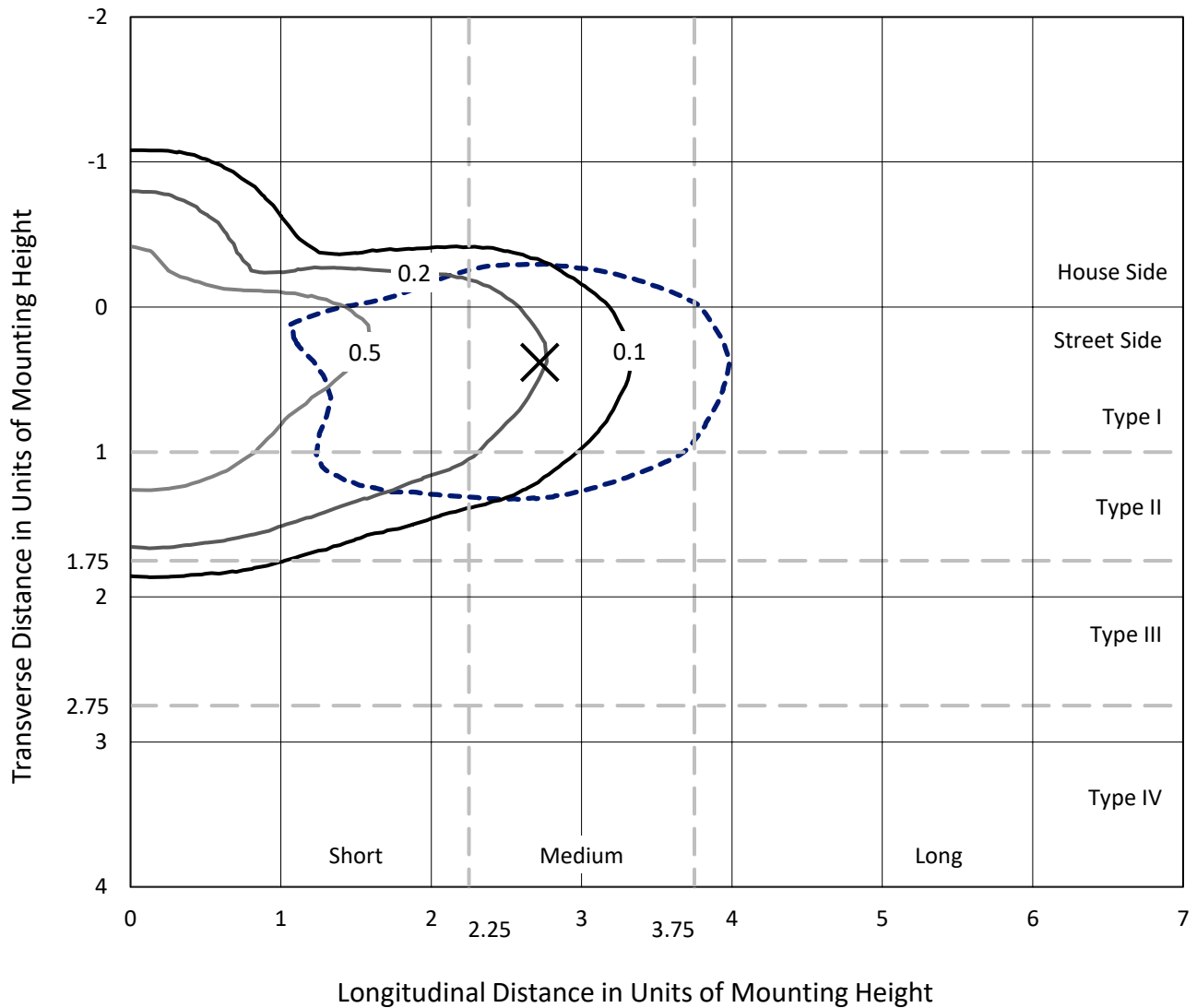
Input Watts (W): 30.9
Input Voltage (V): 120.0
Input Current (Ain): 0.263
Voltage Rise (V): NR
Power Factor: 0.995
Total Harmonic Distortion (THDi): 6.356
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

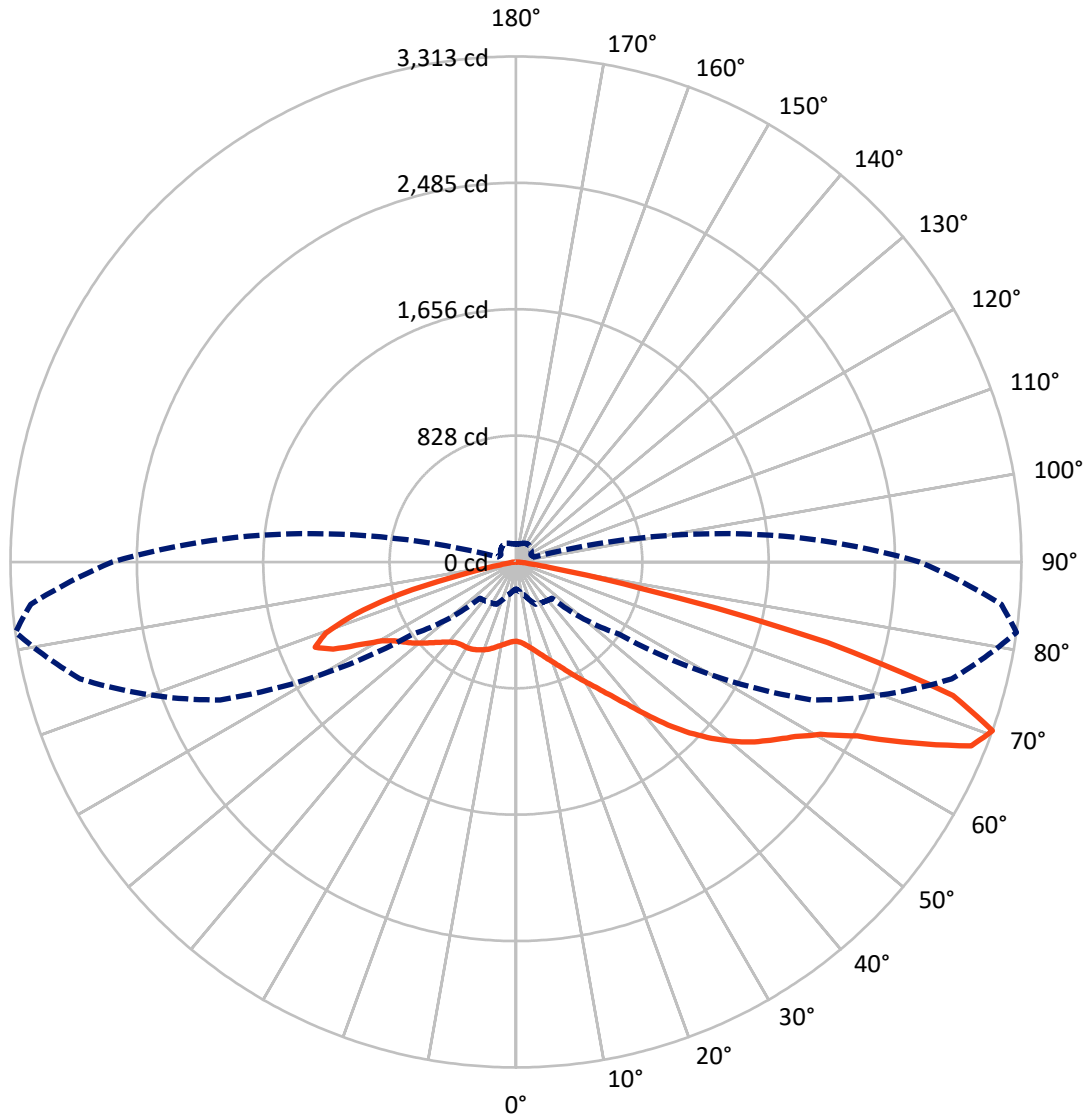
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.9 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 82-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	873.9	0.0	873.9
	% Fixture	24.7	0.0	24.7
Street Side	Lumens	2671.1	0.0	2671.1
	% Fixture	75.3	0.0	75.3
Total	Lumens	3545.0	0.0	3545.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	49.1	1.4
10°-20°	141.0	4.0
20°-30°	235.9	6.7
30°-40°	368.5	10.4
40°-50°	586.8	16.6
50°-60°	816.7	23.0
60°-70°	854.3	24.1
70°-80°	446.5	12.6
80°-90°	46.4	1.3
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°	3545.0	100.0
0°-180°	3545.0	100.0

Coefficient of Utilization

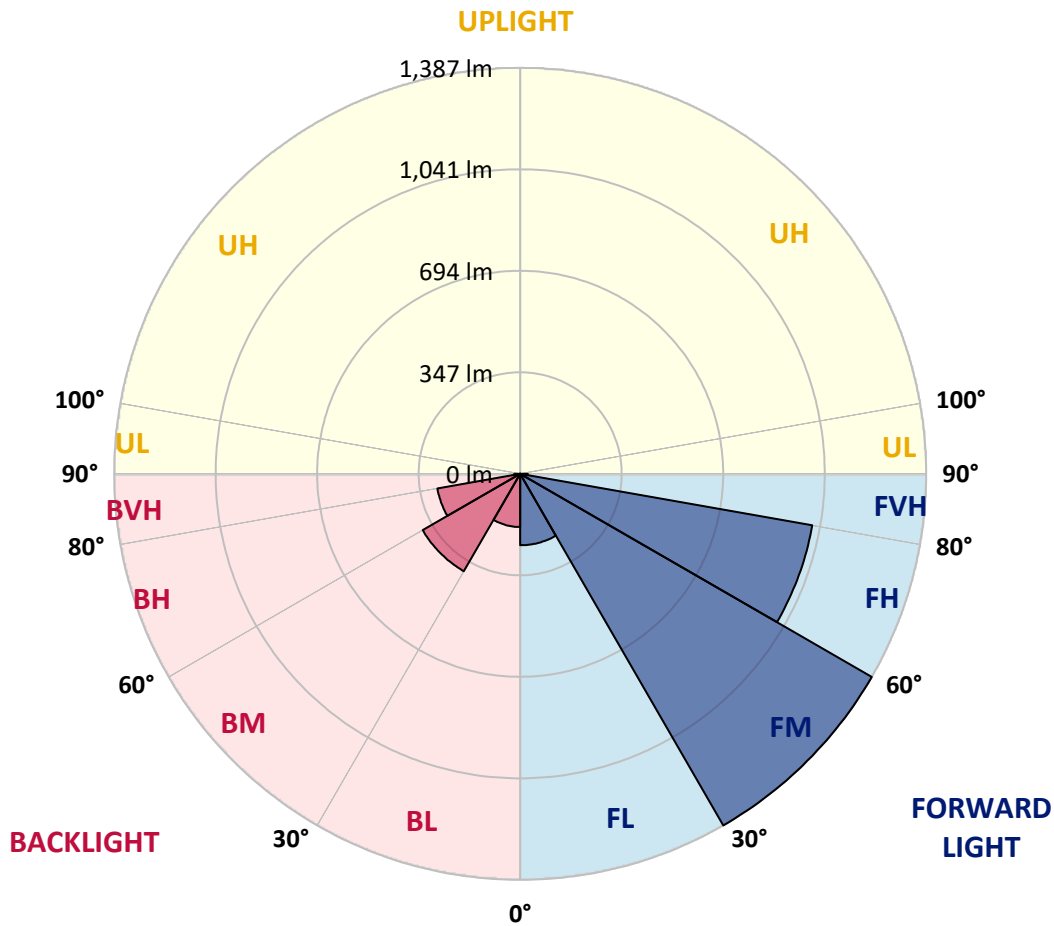


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	244.1	6.9			
FM (30°-60°)	1387.5	39.1			
FH (60°-80°)	1013.5	28.6			G1/1800
FVH (80°-90°)	26.0	0.7			G1/100
BL (0°-30°)	181.8	5.1	B1/500		
BM (30°-60°)	384.5	10.8	B1/1000		
BH (60°-80°)	287.2	8.1	B1/500		G1/500
BVH (80°-90°)	20.4	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-G1
 Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°	85°
0°	519.7	519.7	519.7	519.7	519.7	519.7	519.7	519.7	519.7	519.7	519.7
2.5°	532.2	535.2	534.2	533.3	533.3	532.0	531.8	529.9	528.4	525.9	525.4
5°	538.9	542.1	541.7	542.5	544.9	545.5	546.1	544.9	541.9	538.9	537.6
7.5°	532.9	536.5	537.6	542.1	549.7	556.4	561.5	563.6	560.7	556.4	554.4
10°	512.6	516.5	520.5	531.2	544.6	560.6	574.1	582.2	581.6	577.5	573.9
12.5°	471.4	475.5	484.0	504.9	529.3	557.6	582.8	599.7	605.5	602.5	596.3
15°	438.5	442.1	448.4	469.9	501.7	544.6	586.0	618.9	633.7	632.0	624.5
17.5°	437.5	439.0	443.0	453.2	477.6	524.3	582.6	637.7	666.1	665.9	656.5
20°	454.1	454.7	456.9	459.0	472.9	508.8	573.9	653.3	702.4	702.4	692.2
22.5°	477.0	476.7	478.9	477.0	483.8	507.5	568.5	667.0	742.8	745.8	733.1
25°	511.5	509.6	509.0	504.7	506.0	519.7	574.5	682.6	790.8	797.0	781.0
27.5°	557.4	554.4	552.3	542.3	538.9	544.9	592.9	701.5	844.2	854.9	834.6
30°	617.2	611.7	608.7	591.4	579.2	580.1	620.8	726.5	900.1	917.4	891.6
32.5°	698.8	690.4	682.3	653.9	631.5	624.1	656.7	761.1	960.7	988.3	955.2
35°	790.2	783.5	774.8	731.0	696.6	679.6	705.2	809.4	1031.6	1075.4	1032.3
37.5°	878.3	872.4	876.6	817.5	773.1	748.5	768.8	874.3	1119.1	1183.8	1129.0
40°	969.3	964.8	965.4	908.9	857.2	829.6	845.9	955.8	1219.3	1312.6	1245.3
42.5°	1068.3	1064.9	1053.6	1003.6	945.4	919.7	934.7	1049.8	1326.9	1459.3	1372.8
45°	1179.1	1177.0	1166.5	1109.1	1042.5	1013.5	1033.8	1153.7	1435.1	1597.4	1500.9
47.5°	1274.8	1276.5	1275.2	1226.8	1157.8	1115.3	1139.6	1262.0	1535.7	1727.2	1623.7
50°	1320.9	1329.7	1342.7	1327.7	1284.8	1241.5	1246.2	1366.6	1631.6	1848.9	1741.5
52.5°	1296.8	1313.6	1348.9	1373.0	1389.6	1380.5	1367.9	1470.4	1721.9	1958.8	1852.9
55°	1207.1	1230.6	1289.3	1347.4	1431.9	1497.5	1514.1	1585.6	1810.0	2055.5	1958.2
57.5°	1043.6	1081.8	1134.5	1252.0	1394.3	1554.1	1684.5	1745.3	1903.3	2158.7	2068.4
60°	763.3	814.5	880.0	1054.9	1262.6	1523.9	1829.5	1990.6	2035.9	2292.5	2212.0
62.5°	488.5	520.1	580.3	745.1	983.8	1368.7	1873.9	2297.2	2260.7	2511.8	2427.2
65°	334.5	354.8	409.9	502.4	636.0	1018.8	1755.0	2527.0	2617.7	2859.4	2795.1
67.5°	243.0	258.5	305.5	386.6	414.4	602.9	1361.9	2516.5	2964.8	3217.6	3117.5
70°	177.2	188.1	227.6	305.5	318.8	335.4	825.0	2139.2	2957.2	3312.8	3192.9
72.5°	131.3	138.8	165.3	237.0	258.1	226.5	408.4	1554.7	2541.1	2996.4	2900.2
75°	95.0	100.6	120.2	181.3	206.5	172.5	203.7	908.6	1772.5	2107.7	2124.7
77.5°	72.6	76.9	89.7	132.8	165.3	129.4	126.4	418.0	840.5	844.6	892.0
80°	58.3	61.1	68.1	93.5	126.8	96.9	82.4	168.7	265.6	224.8	235.9
82.5°	42.9	47.6	57.6	65.6	90.7	66.8	50.2	85.2	101.0	86.9	87.7
85°	24.5	27.7	34.8	47.0	57.9	40.8	28.8	37.8	47.0	38.6	34.4
87.5°	8.7	11.3	12.2	18.4	25.2	16.9	11.1	10.9	15.4	11.5	9.6
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°	519.7	519.7	519.7	519.7	519.7	519.7	519.7	519.7	519.7	519.7	519.7
2.5°	523.5	522.6	518.8	513.7	508.5	503.4	501.7	498.1	495.7	494.3	495.9
5°	534.0	531.0	522.2	510.9	499.0	486.3	477.2	469.0	462.9	457.3	459.5
7.5°	549.1	543.8	528.6	508.8	487.8	466.5	450.7	438.7	430.6	425.3	426.4
10°	566.6	558.5	535.2	505.6	473.1	442.6	424.0	413.6	408.6	405.7	406.5
12.5°	586.7	575.2	541.9	498.3	450.7	415.9	403.1	400.1	400.3	400.5	400.9
15°	611.5	595.5	547.4	482.3	421.5	395.4	393.1	398.0	403.1	405.6	405.4
17.5°	639.6	617.0	548.3	456.0	393.0	382.2	389.4	399.9	407.6	411.0	411.8
20°	669.7	638.8	541.6	418.7	369.4	371.5	384.3	397.8	406.3	410.6	411.8
22.5°	704.1	662.1	525.4	379.6	350.3	359.8	374.9	388.1	396.9	401.2	402.4
25°	743.4	688.3	500.0	346.7	333.7	346.7	361.7	372.6	379.8	383.7	384.9
27.5°	787.0	715.6	466.1	320.5	319.2	333.1	345.6	354.0	357.8	360.8	361.9
30°	830.9	740.4	425.1	300.8	306.6	319.8	328.6	332.4	333.5	334.1	335.4
32.5°	878.3	761.8	382.0	284.4	294.6	306.8	312.1	313.8	308.5	304.9	306.1
35°	935.6	784.8	339.9	271.4	282.7	293.3	295.0	293.4	287.2	279.9	280.3
37.5°	1006.6	813.4	306.2	262.2	271.6	278.6	276.5	276.1	276.7	268.1	268.6
40°	1093.5	850.6	281.6	255.1	262.6	264.1	258.3	261.5	264.3	251.1	251.5
42.5°	1190.0	895.6	266.0	250.2	255.1	251.5	242.5	246.0	245.7	228.4	228.2
45°	1288.3	944.5	260.5	246.6	248.1	241.0	231.0	231.9	224.0	208.4	209.0
47.5°	1386.2	997.0	263.9	243.6	239.5	231.4	223.7	219.5	207.9	196.2	196.2
50°	1482.1	1052.1	276.3	237.6	227.6	222.9	217.3	209.9	197.5	187.5	186.8
52.5°	1571.1	1107.6	290.3	227.6	212.7	215.6	212.0	203.5	191.3	181.1	181.3
55°	1655.3	1163.1	295.7	213.9	198.8	209.2	207.1	191.5	176.8	168.5	167.8
57.5°	1747.1	1229.8	289.7	196.4	187.5	201.8	193.9	176.6	168.2	162.0	161.4
60°	1874.3	1334.6	276.7	174.8	176.8	190.9	177.4	170.2	161.0	154.1	153.7
62.5°	2085.5	1530.1	255.8	153.3	164.2	174.8	169.5	162.3	152.9	146.2	146.2
65°	2397.8	1801.7	216.5	136.6	150.1	159.0	161.0	153.9	144.1	136.9	137.3
67.5°	2661.2	1972.1	163.8	122.6	135.6	146.2	152.0	145.0	134.7	127.7	127.9
70°	2646.7	1848.3	125.1	108.9	122.8	133.6	141.1	135.6	124.5	117.9	118.5
72.5°	2350.8	1546.2	101.2	95.0	109.9	120.4	129.4	125.3	114.0	107.6	107.6
75°	1727.0	1097.6	80.9	80.9	93.7	106.7	116.6	114.0	103.6	99.1	97.8
77.5°	728.0	460.5	63.4	67.2	77.9	91.6	104.0	105.0	95.9	101.6	92.2
80°	193.6	127.0	48.3	52.9	61.1	75.6	90.5	90.1	80.3	75.1	69.8
82.5°	73.7	50.0	34.4	37.2	44.2	57.9	71.7	73.9	64.1	55.5	55.5
85°	28.4	21.4	21.3	22.4	25.8	38.4	54.2	56.1	48.3	41.0	42.3
87.5°	7.3	6.4	7.9	7.5	11.9	20.5	31.0	32.2	29.5	17.1	24.5
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)