

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: P959717

Luminaire Tested: **NAV-SB1B-722-U-AFL-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P959717
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-15)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB1B-722-U-AFL-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 2200K, 450mA LIGHTSQUARE WITH 26 LEDS AND AUTOMOTIVE
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4066.1 lumens
Efficiency: N/A
Efficacy: 102.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

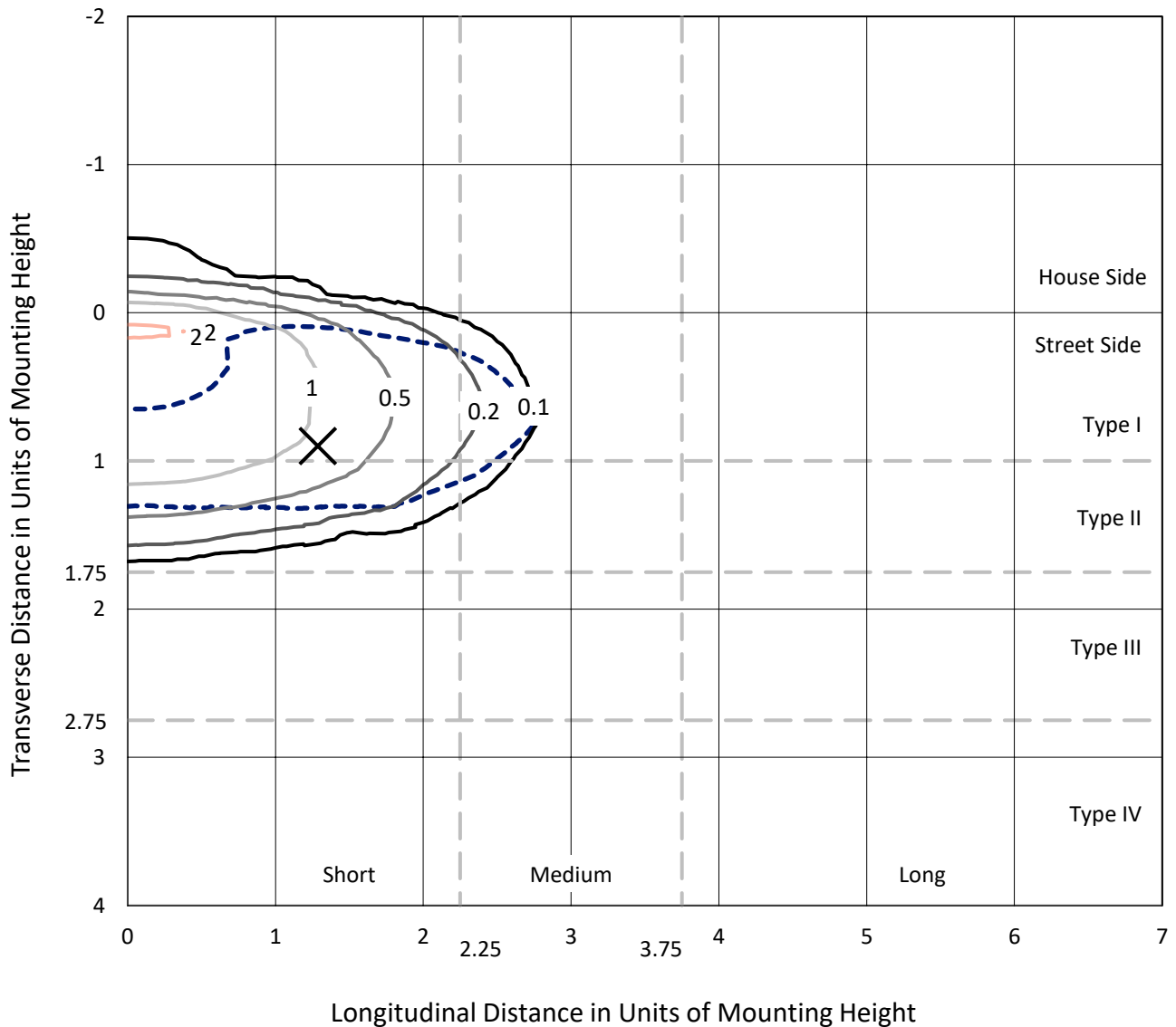
Input Watts (W): 39.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P959717
 CATALOG NUMBER: NAV-SB1B-722-U-AFL-HSS

Iso-Footcandle Lines of Horizontal Illumination

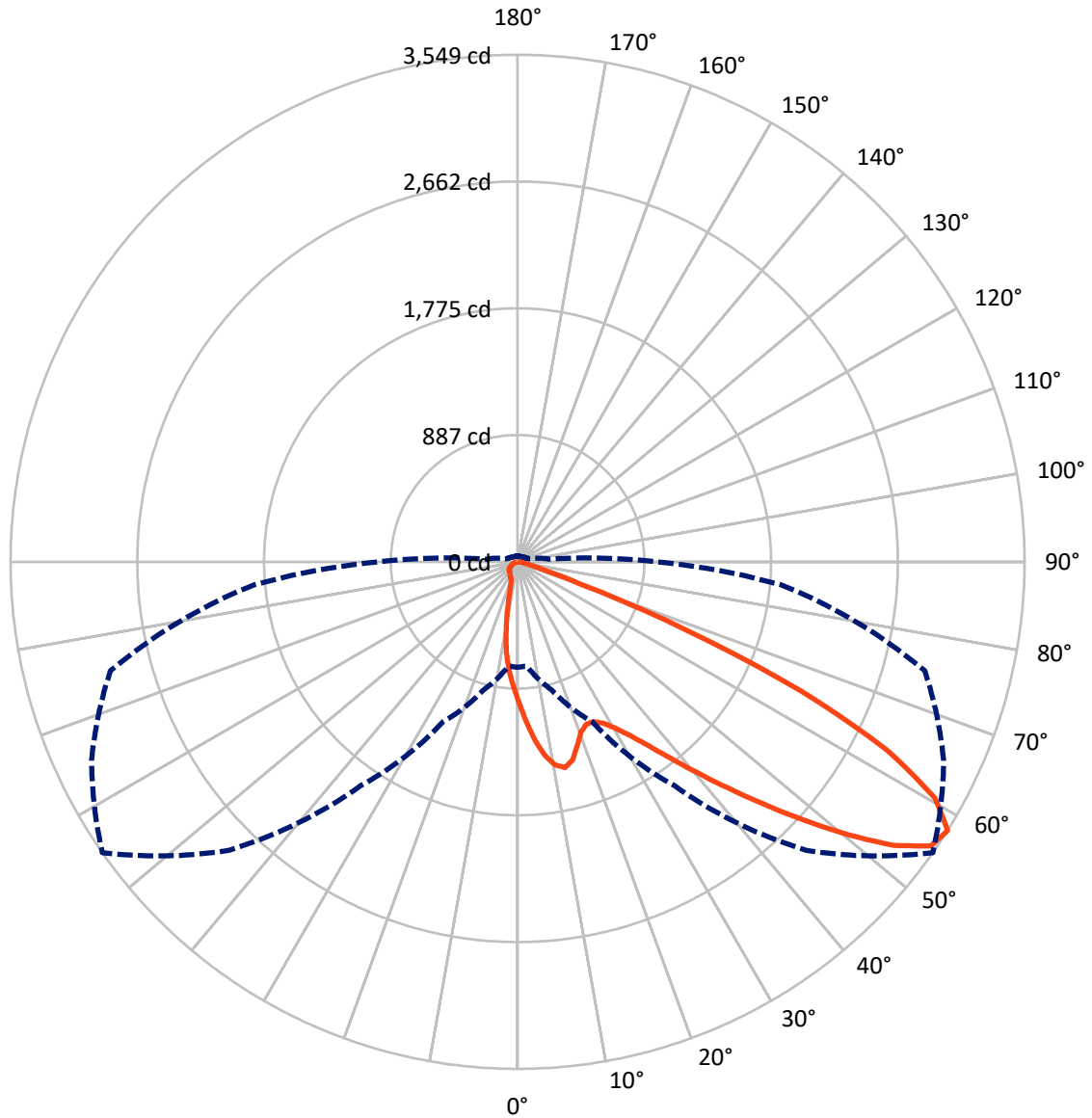
✕ Max cd
 - - - 1/2 Max cd



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

REPORT NUMBER: P959717
CATALOG NUMBER: NAV-SB1B-722-U-AFL-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

REPORT NUMBER: P959717
 CATALOG NUMBER: NAV-SB1B-722-U-AFL-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	317.5	0.0	317.5
	% Fixture	7.8	0.0	7.8
Street Side	Lumens	3748.6	0.0	3748.6
	% Fixture	92.2	0.0	92.2
Total	Lumens	4066.1	0.0	4066.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	91.2	2.2
10°-20°	220.2	5.4
20°-30°	352.3	8.7
30°-40°	596.4	14.7
40°-50°	979.1	24.1
50°-60°	1076.1	26.5
60°-70°	617.3	15.2
70°-80°	126.1	3.1
80°-90°	7.4	0.2
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°	4066.1	100.0
0°-180°	4066.1	100.0

Coefficient of Utilization

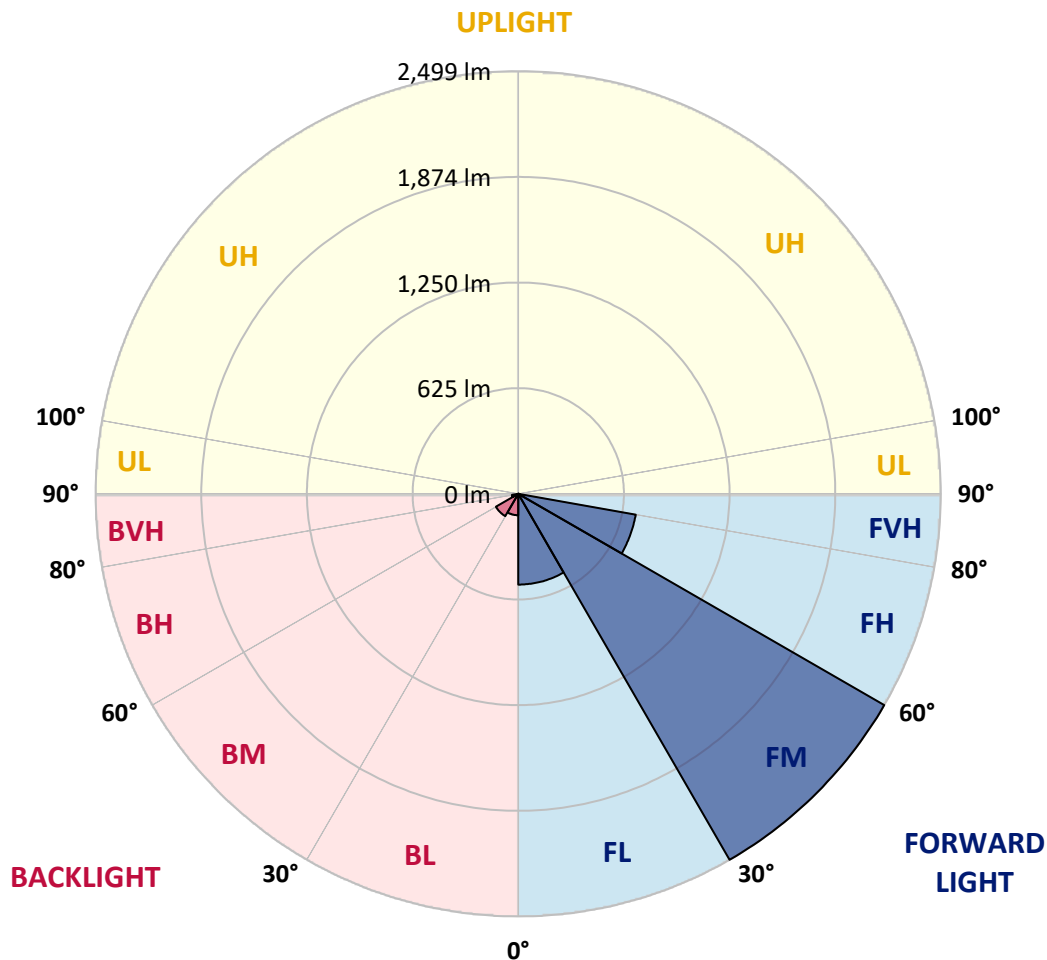


REPORT NUMBER: P959717
 CATALOG NUMBER: NAV-SB1B-722-U-AFL-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	537.0	13.2			
FM (30°-60°)	2499.1	61.5			
FH (60°-80°)	705.6	17.4			G1/1800
FVH (80°-90°)	6.9	0.2			G0/10
BL (0°-30°)	126.8	3.1	B1/500		
BM (30°-60°)	152.5	3.8	B0/220		
BH (60°-80°)	37.8	0.9	B0/110		G0/110
BVH (80°-90°)	0.5	0.0			G0/10
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 Short



REPORT NUMBER: P959717
 CATALOG NUMBER: NAV-SB1B-722-U-AFL-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	979.8	979.8	979.8	979.8	979.8	979.8	979.8	979.8	979.8	979.8	979.8
2.5°	1215.8	1200.5	1198.2	1195.3	1166.1	1144.3	1112.7	1078.1	1039.2	999.7	982.2
5°	1404.6	1392.6	1390.3	1376.3	1343.2	1306.1	1249.9	1179.0	1106.5	1021.2	984.6
7.5°	1441.1	1438.9	1449.2	1448.7	1444.2	1414.9	1367.5	1283.0	1174.1	1047.8	991.2
10°	1278.0	1283.7	1314.4	1341.1	1413.6	1455.7	1445.5	1375.8	1243.8	1078.1	998.5
12.5°	1129.2	1122.5	1144.3	1174.6	1258.9	1384.3	1477.8	1453.2	1323.6	1112.4	1009.2
15°	1036.0	1033.3	1045.5	1059.5	1123.8	1250.1	1440.2	1516.2	1400.4	1153.1	1025.5
17.5°	1006.1	1003.9	1007.7	1011.2	1052.8	1150.6	1350.6	1554.7	1473.7	1199.5	1043.6
20°	1030.5	1027.5	1026.9	1024.2	1041.5	1108.2	1269.7	1557.5	1539.8	1241.6	1059.0
22.5°	1101.5	1098.0	1085.7	1074.6	1076.1	1114.0	1233.6	1529.9	1589.4	1280.9	1068.9
25°	1230.1	1224.3	1198.7	1161.6	1138.1	1154.1	1239.1	1493.6	1636.7	1311.8	1064.1
27.5°	1391.0	1383.5	1350.6	1295.5	1241.6	1222.0	1279.0	1468.5	1676.1	1335.4	1053.8
30°	1548.8	1538.9	1506.6	1463.8	1385.0	1323.4	1350.9	1479.6	1723.0	1360.0	1040.3
32.5°	1719.0	1709.7	1666.9	1613.7	1548.5	1465.5	1449.5	1533.5	1780.4	1394.3	1030.7
35°	1934.4	1919.8	1858.9	1786.5	1717.3	1633.2	1582.8	1626.5	1856.9	1446.7	1036.0
37.5°	2179.6	2160.0	2094.4	1994.3	1904.0	1810.0	1745.4	1754.4	1968.9	1516.9	1052.3
40°	2410.8	2393.0	2332.3	2238.0	2124.7	2010.6	1941.7	1921.6	2123.7	1602.4	1080.9
42.5°	2549.4	2533.4	2507.8	2467.9	2372.4	2256.0	2169.1	2125.6	2306.7	1704.7	1115.7
45°	2557.2	2543.1	2577.5	2623.9	2605.0	2527.5	2421.6	2342.0	2490.4	1800.7	1151.9
47.5°	2432.8	2423.3	2527.5	2689.6	2770.3	2802.9	2705.1	2540.4	2642.1	1869.7	1166.7
50°	2093.9	2090.3	2304.9	2602.3	2833.2	3044.1	3004.3	2725.0	2759.8	1905.3	1152.6
52.5°	1815.5	1802.8	1927.8	2323.0	2741.7	3170.9	3296.6	2906.0	2842.0	1912.0	1119.7
55°	1377.0	1365.7	1522.6	1855.7	2446.6	3125.8	3510.4	3092.7	2901.0	1894.7	1060.9
57.5°	738.6	731.6	930.0	1235.1	1912.5	2855.0	3549.1	3290.4	2950.6	1848.9	978.4
60°	287.6	286.3	360.6	599.2	1162.4	2322.8	3354.2	3408.9	2981.6	1792.4	909.4
62.5°	174.0	177.7	189.8	269.1	513.5	1443.0	2905.2	3274.1	3002.4	1740.9	852.5
65°	143.9	144.2	145.7	184.8	246.0	603.7	2187.1	2830.2	2951.1	1648.8	771.7
67.5°	123.3	125.7	131.4	146.7	173.5	264.8	1259.1	2192.4	2638.5	1434.7	645.9
70°	97.3	100.2	107.5	120.6	133.9	165.7	465.4	1458.8	2015.6	1081.4	488.4
72.5°	82.0	81.7	85.5	98.0	106.3	116.5	179.1	817.3	1171.4	516.3	241.7
75°	63.4	65.9	70.7	82.0	87.0	84.5	97.1	298.6	419.7	156.4	82.2
77.5°	49.6	51.7	55.9	66.9	72.0	60.0	55.9	106.8	134.9	56.2	37.1
80°	22.3	24.1	38.1	49.4	58.6	41.4	30.3	54.6	60.0	25.6	18.8
82.5°	4.0	6.8	22.3	26.0	30.1	26.9	15.8	28.3	29.3	10.2	6.6
85°	0.2	0.5	7.8	9.5	12.0	8.8	4.7	11.3	9.7	3.5	2.5
87.5°	0.0	0.0	0.0	0.2	0.2	1.2	1.5	2.0	1.5	1.2	1.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P959717
 CATALOG NUMBER: NAV-SB1B-722-U-AFL-HSS

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	979.8	979.8	979.8	979.8	979.8	979.8	979.8	979.8	979.8	979.8
2.5°	964.0	928.4	893.8	865.5	849.0	820.9	802.4	799.3	791.5	798.3
5°	945.5	881.8	817.3	759.7	712.3	651.2	605.5	586.2	569.4	575.1
7.5°	936.7	836.2	735.8	637.3	536.1	438.3	365.5	335.2	312.1	315.4
10°	925.0	788.8	631.6	481.1	345.5	249.0	198.8	180.3	169.9	170.3
12.5°	915.9	732.2	510.4	326.2	210.3	159.0	143.4	138.9	135.9	136.1
15°	911.4	665.4	390.9	217.4	150.5	134.7	130.9	128.8	126.9	126.6
17.5°	903.8	591.2	286.1	158.7	131.6	126.1	122.9	120.6	118.1	117.6
20°	892.6	507.0	209.1	134.2	123.3	119.1	114.6	111.6	108.5	108.0
22.5°	871.8	418.0	160.7	124.1	117.4	112.5	107.0	103.5	100.6	100.0
25°	833.2	334.5	135.4	117.9	112.0	106.3	100.2	95.5	92.8	92.2
27.5°	784.3	262.8	122.9	112.0	105.3	100.0	93.3	88.8	86.2	85.8
30°	726.6	202.3	115.6	105.6	97.3	92.8	86.7	83.0	81.5	81.5
32.5°	664.4	161.7	112.5	99.0	90.3	85.3	80.5	79.0	78.5	78.2
35°	606.0	140.4	111.1	93.8	83.9	79.2	77.2	77.5	78.5	78.5
37.5°	554.1	133.7	110.3	90.0	78.5	74.2	75.4	77.7	76.8	76.8
40°	507.3	134.4	109.8	87.2	74.0	71.4	74.0	72.2	69.7	69.5
42.5°	471.4	140.6	108.9	85.0	71.2	69.5	68.5	65.7	65.4	65.9
45°	445.3	146.2	108.5	83.9	68.2	65.0	63.7	60.9	65.9	67.2
47.5°	414.4	146.2	108.5	80.5	63.1	61.9	60.0	56.9	61.9	63.1
50°	374.6	136.9	104.3	76.5	59.1	58.4	54.9	51.1	50.1	50.9
52.5°	324.2	120.1	93.5	70.9	55.1	53.6	49.4	46.6	45.9	45.9
55°	266.8	100.6	79.0	62.9	50.9	48.2	45.1	43.9	43.2	42.6
57.5°	216.9	82.5	63.4	55.9	46.8	43.4	42.3	40.9	39.6	38.8
60°	178.0	65.0	52.4	49.6	42.8	39.6	39.4	37.3	34.1	33.6
62.5°	137.4	47.7	44.2	43.2	38.8	36.1	35.6	31.6	26.5	25.6
65°	97.1	37.1	35.6	37.8	34.6	32.1	30.9	24.8	19.6	18.8
67.5°	68.2	31.1	28.1	33.1	30.1	26.9	26.0	21.0	16.3	15.8
70°	48.7	25.3	23.1	28.3	24.1	23.6	22.0	17.5	13.3	12.8
72.5°	34.3	19.3	17.8	24.6	16.5	20.3	18.0	13.5	10.0	9.5
75°	25.3	13.8	12.5	14.2	12.0	15.3	12.8	9.0	6.3	6.0
77.5°	18.6	8.8	7.5	7.0	7.0	9.5	7.0	3.8	2.8	2.5
80°	13.0	4.0	3.5	3.0	2.8	2.3	1.0	0.5	0.2	0.2
82.5°	7.8	1.7	1.7	1.2	0.7	0.0	0.0	0.0	0.0	0.0
85°	1.7	0.7	0.7	0.2	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)