

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: P881698

Luminaire Tested: **NAV-SB1B-722-U-T3-HSS**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P881698
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-6)
Test Lab: INNOVATION CENTER
Issue Date: 10/7/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB1B-722-U-T3-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 2200K, 450mA LIGHTSQUARE WITH 26 LEDS AND TYPE III OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3522 lumens
Efficiency: N/A
Efficacy: 88.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G1

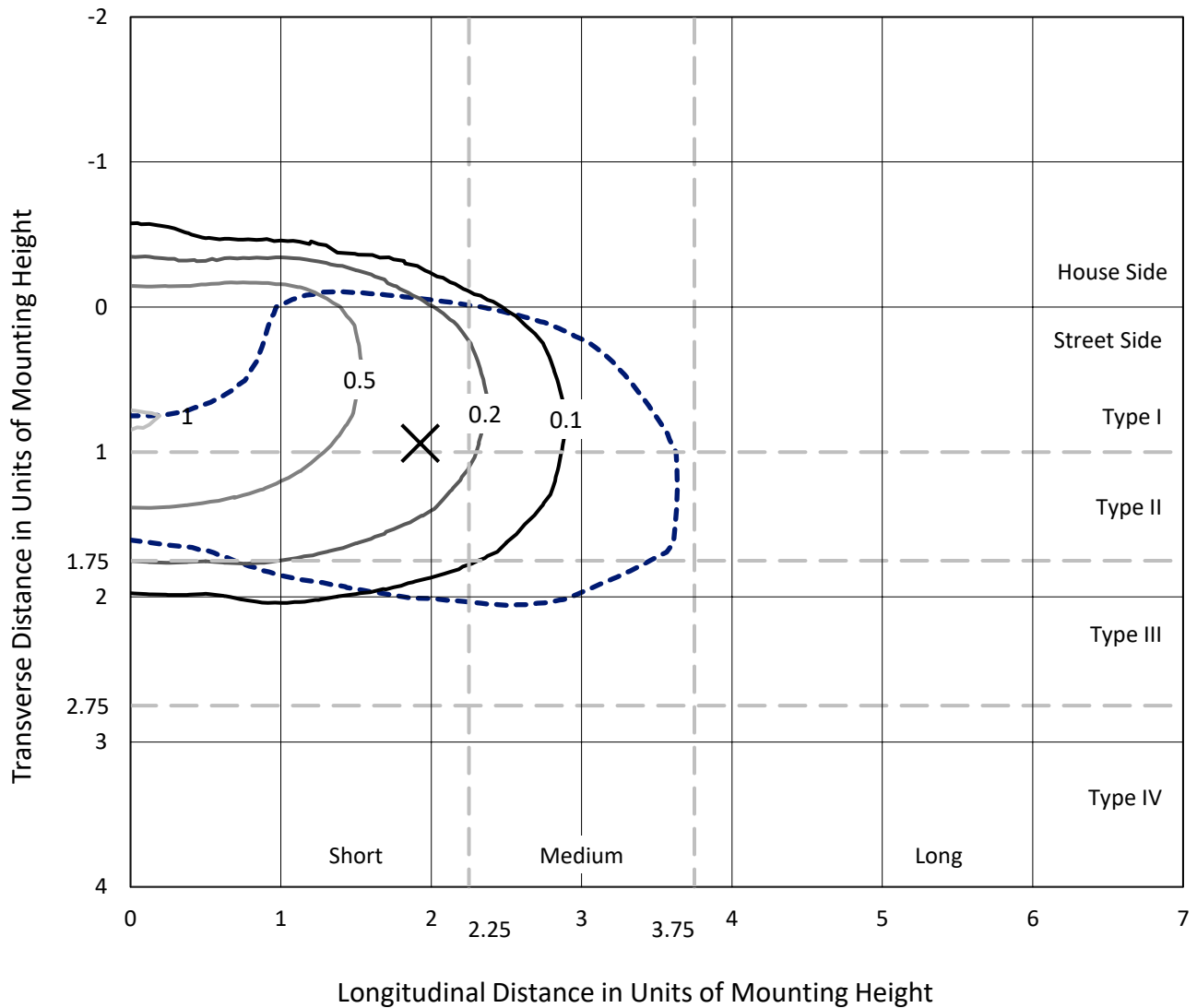
Input Watts (W): 39.8
Input Voltage (V): 120.0
Input Current (Ain): 0.33
Voltage Rise (V): NR
Power Factor: 0.996
Total Harmonic Distortion (THDi): 5.305
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

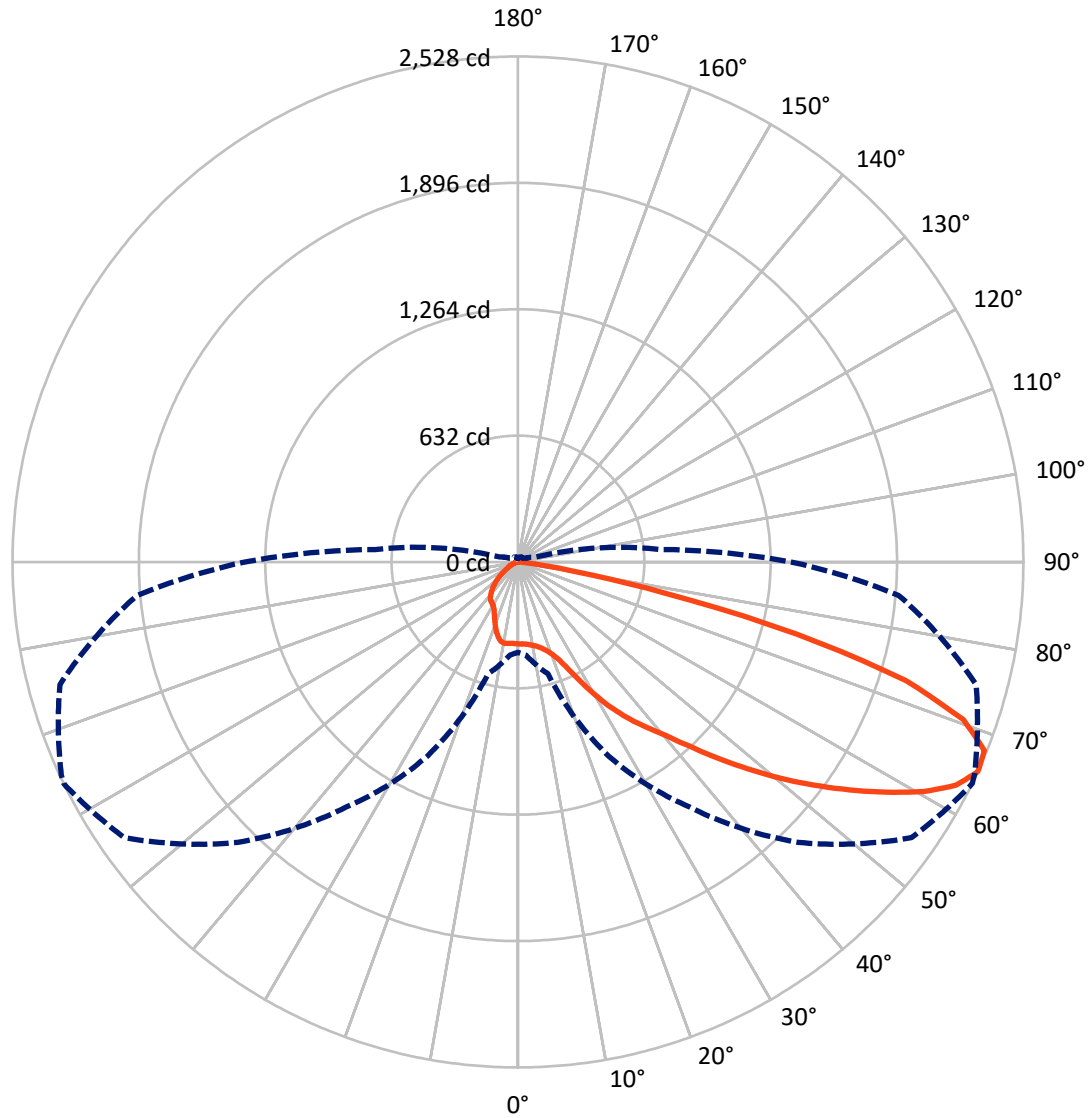
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 64-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	471.0	0.0	471.0
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	3051.0	0.0	3051.0
	% Fixture	86.6	0.0	86.6
Total	Lumens	3522.0	0.0	3522.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	37.8	1.1
10°-20°	102.5	2.9
20°-30°	194.2	5.5
30°-40°	393.1	11.2
40°-50°	669.6	19.0
50°-60°	910.6	25.9
60°-70°	855.1	24.3
70°-80°	342.6	9.7
80°-90°	16.6	0.5
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°	3522.0	100.0
0°-180°	3522.0	100.0

Coefficient of Utilization



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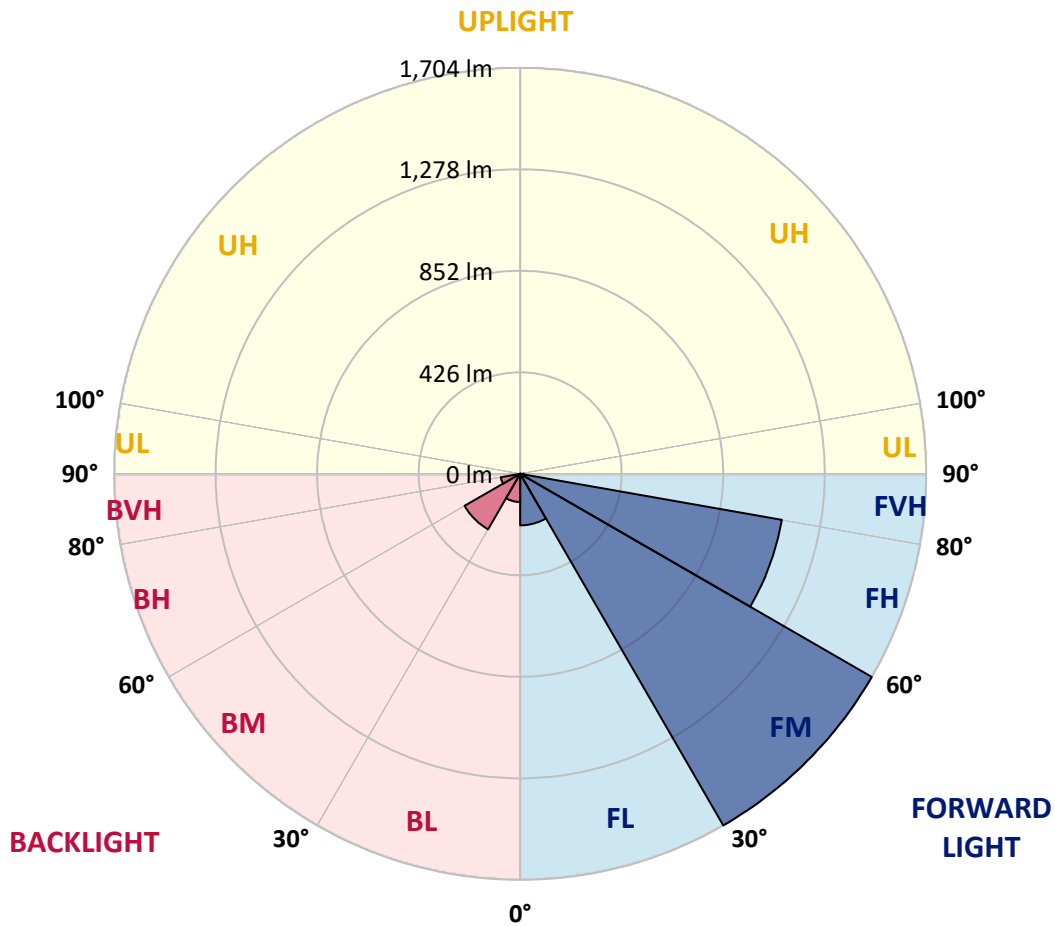
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	216.3	6.1			
FM (30°-60°)	1703.9	48.4			
FH (60°-80°)	1115.0	31.7			G1/1800
FVH (80°-90°)	15.8	0.4			G1/100
BL (0°-30°)	118.3	3.4	B1/500		
BM (30°-60°)	269.3	7.6	B1/1000		
BH (60°-80°)	82.7	2.3	B0/110		G0/110
BVH (80°-90°)	0.8	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 III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	409.6	409.6	409.6	409.6	409.6	409.6	409.6	409.6	409.6	409.6	409.6
2.5°	408.2	411.1	410.4	409.6	409.4	409.9	410.1	409.9	409.9	409.9	410.1
5°	400.4	402.8	402.8	404.5	406.8	409.6	411.8	412.2	412.7	413.4	413.2
7.5°	385.6	387.5	388.9	394.3	400.2	407.8	414.1	417.4	417.9	420.5	421.5
10°	375.4	377.8	380.1	385.8	394.3	405.6	416.5	424.5	425.7	431.8	434.7
12.5°	374.9	377.3	380.4	386.5	396.4	408.5	421.7	433.3	435.4	444.4	450.3
15°	379.9	382.7	385.6	393.1	403.7	418.4	432.5	447.0	449.1	461.8	468.2
17.5°	390.0	393.8	396.0	403.5	414.8	431.1	449.8	466.3	468.2	483.1	491.1
20°	410.1	414.6	415.3	421.5	432.5	450.0	472.2	492.8	495.1	512.1	521.1
22.5°	451.7	458.0	452.4	455.4	465.4	482.8	506.9	532.9	536.2	555.6	563.6
25°	524.9	533.8	519.2	514.0	518.3	536.4	566.7	599.5	603.3	618.8	622.8
27.5°	668.7	657.1	634.9	613.2	600.4	610.8	644.8	685.4	690.1	705.3	700.5
30°	826.6	816.5	786.5	738.3	708.1	706.4	737.8	783.2	788.6	803.0	788.6
32.5°	984.8	975.1	942.5	883.3	830.9	804.9	826.6	876.9	879.7	888.9	867.7
35°	1140.4	1130.5	1097.9	1037.2	972.8	913.7	909.5	966.1	967.1	976.8	945.1
37.5°	1296.9	1288.7	1254.0	1194.5	1131.0	1049.5	1010.1	1050.7	1051.9	1061.3	1028.5
40°	1408.6	1412.2	1388.3	1342.3	1287.7	1198.7	1122.9	1140.6	1133.5	1149.4	1129.8
42.5°	1504.5	1511.6	1490.8	1467.6	1436.0	1357.6	1262.7	1259.6	1248.3	1256.8	1236.5
45°	1587.3	1593.2	1574.6	1569.2	1568.5	1513.4	1415.5	1397.0	1381.2	1379.6	1355.3
47.5°	1617.8	1629.1	1637.2	1655.3	1690.8	1667.6	1573.4	1544.8	1527.1	1514.2	1475.7
50°	1629.4	1641.4	1668.8	1721.7	1805.5	1815.4	1730.7	1698.6	1676.8	1653.2	1596.6
52.5°	1613.8	1635.3	1672.1	1761.1	1882.7	1934.0	1881.5	1853.4	1828.6	1790.2	1706.1
55°	1521.9	1543.4	1618.7	1760.6	1921.2	2017.1	2024.1	2011.6	1983.8	1923.1	1794.6
57.5°	1328.3	1360.2	1479.4	1700.7	1920.5	2088.6	2163.9	2172.9	2141.7	2054.8	1864.3
60°	1060.1	1103.3	1248.8	1567.7	1861.2	2127.3	2286.5	2331.3	2298.3	2184.7	1920.7
62.5°	739.7	789.8	927.4	1359.5	1725.7	2099.5	2375.9	2458.8	2433.8	2300.9	1942.5
65°	451.2	467.3	578.2	1069.8	1495.3	1982.8	2403.6	2527.8	2519.5	2371.9	1910.3
67.5°	300.6	314.0	345.9	733.6	1160.7	1749.8	2337.5	2515.7	2518.1	2360.4	1792.8
70°	181.1	192.7	213.4	426.6	752.2	1385.0	2132.8	2362.2	2375.9	2205.7	1569.9
72.5°	74.6	82.4	101.3	193.4	389.6	879.0	1698.3	2028.2	2060.0	1854.6	1204.9
75°	42.3	46.3	59.5	97.0	169.1	409.6	1028.7	1439.8	1486.8	1278.3	724.8
77.5°	28.1	30.0	38.5	62.8	95.2	139.8	439.6	750.1	839.8	698.2	313.8
80°	18.9	20.5	26.4	42.0	61.9	60.0	140.0	277.9	341.9	239.9	76.5
82.5°	12.7	13.0	18.9	27.6	39.2	29.0	41.3	86.4	108.6	69.4	29.0
85°	7.3	7.1	13.9	16.1	17.5	12.0	12.5	26.0	34.0	29.3	16.5
87.5°	0.9	1.4	5.4	4.2	2.4	2.6	2.6	4.5	6.6	7.1	3.5
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°	409.6	409.6	409.6	409.6	409.6	409.6	409.6	409.6	409.6	409.6	409.6
2.5°	410.1	409.9	409.2	408.5	406.8	405.9	406.3	405.9	405.6	405.9	406.8
5°	413.2	412.5	410.6	408.2	404.9	400.9	398.3	394.5	391.0	388.9	389.3
7.5°	421.5	420.7	418.1	411.5	400.9	384.1	368.8	355.3	345.2	339.3	339.5
10°	434.7	433.5	429.5	414.8	387.0	350.4	319.9	294.7	278.1	270.3	269.6
12.5°	450.3	448.8	441.8	411.8	360.5	303.4	261.4	233.3	217.9	211.1	210.4
15°	468.7	466.8	452.9	397.1	322.0	251.5	213.0	192.0	182.0	175.9	176.1
17.5°	491.6	488.3	461.1	375.2	280.3	211.8	183.2	167.4	158.7	152.8	152.3
20°	521.3	515.9	467.7	349.0	241.8	186.8	163.1	149.9	143.3	138.1	137.2
22.5°	562.9	555.1	475.8	320.6	214.6	169.5	148.3	138.6	133.2	127.3	126.3
25°	614.3	605.1	485.7	294.4	196.0	154.6	137.4	129.4	123.0	116.2	115.5
27.5°	686.4	669.8	497.5	272.9	179.9	141.9	127.5	118.5	111.2	105.5	104.4
30°	766.6	739.5	507.9	260.0	165.3	130.1	114.5	105.5	98.7	94.7	94.0
32.5°	842.7	805.8	514.7	254.3	152.1	116.6	100.3	90.7	85.5	84.3	85.0
35°	914.4	865.8	514.0	248.9	140.2	103.2	86.4	76.5	72.5	73.2	73.2
37.5°	997.1	929.8	509.0	240.4	130.6	90.9	74.4	65.6	62.1	62.3	63.3
40°	1093.2	1003.7	506.0	224.3	119.9	79.6	64.5	57.4	54.8	53.8	53.6
42.5°	1195.6	1075.2	506.4	206.1	106.7	69.4	57.6	51.7	49.3	48.6	48.4
45°	1298.6	1143.5	507.2	187.2	92.8	61.6	52.7	47.7	46.3	45.3	45.3
47.5°	1395.4	1201.5	493.9	166.9	79.1	55.7	48.6	45.3	44.2	43.0	43.0
50°	1485.6	1240.3	462.1	143.3	68.2	51.0	45.6	43.2	42.0	40.8	40.8
52.5°	1555.7	1246.4	409.4	119.0	60.7	47.5	43.7	41.6	40.1	39.0	38.7
55°	1586.9	1207.9	334.6	96.3	54.8	44.4	41.8	39.7	38.0	36.8	36.6
57.5°	1578.8	1126.9	260.9	77.4	49.1	41.3	39.4	38.0	36.1	34.2	34.0
60°	1539.4	1018.6	196.7	64.5	43.9	38.0	36.8	35.7	33.1	30.2	29.7
62.5°	1471.2	882.3	140.2	53.4	38.2	34.2	33.8	32.8	29.0	23.8	23.4
65°	1366.8	716.8	94.4	44.4	32.8	30.0	30.2	28.6	23.6	17.7	17.2
67.5°	1214.3	524.2	60.4	36.4	27.4	25.0	25.3	24.3	20.1	15.1	14.4
70°	1020.0	347.1	39.4	27.6	22.0	19.4	20.8	21.0	17.0	12.3	11.8
72.5°	747.8	204.9	27.6	20.5	16.1	13.5	17.0	17.5	13.7	9.2	8.7
75°	426.2	97.3	20.8	14.9	9.9	9.4	13.2	13.2	9.4	6.1	5.7
77.5°	179.0	40.6	14.6	9.7	5.7	5.4	9.0	8.3	4.7	2.8	2.8
80°	51.7	18.2	7.8	4.7	2.4	2.1	3.5	2.6	1.2	0.5	0.5
82.5°	20.3	8.0	3.1	1.9	0.9	0.9	0.5	0.0	0.0	0.0	0.0
85°	12.0	3.3	1.4	0.7	0.2	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	3.1	0.7	0.5	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	0.0

(END OF REPORT)