

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: P882378

Luminaire Tested: **NAV-SB2B-722-U-T3-HSS**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P882378
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-SB2B-722-U-T3-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 2200K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7172 lumens
Efficiency: N/A
Efficacy: 97.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

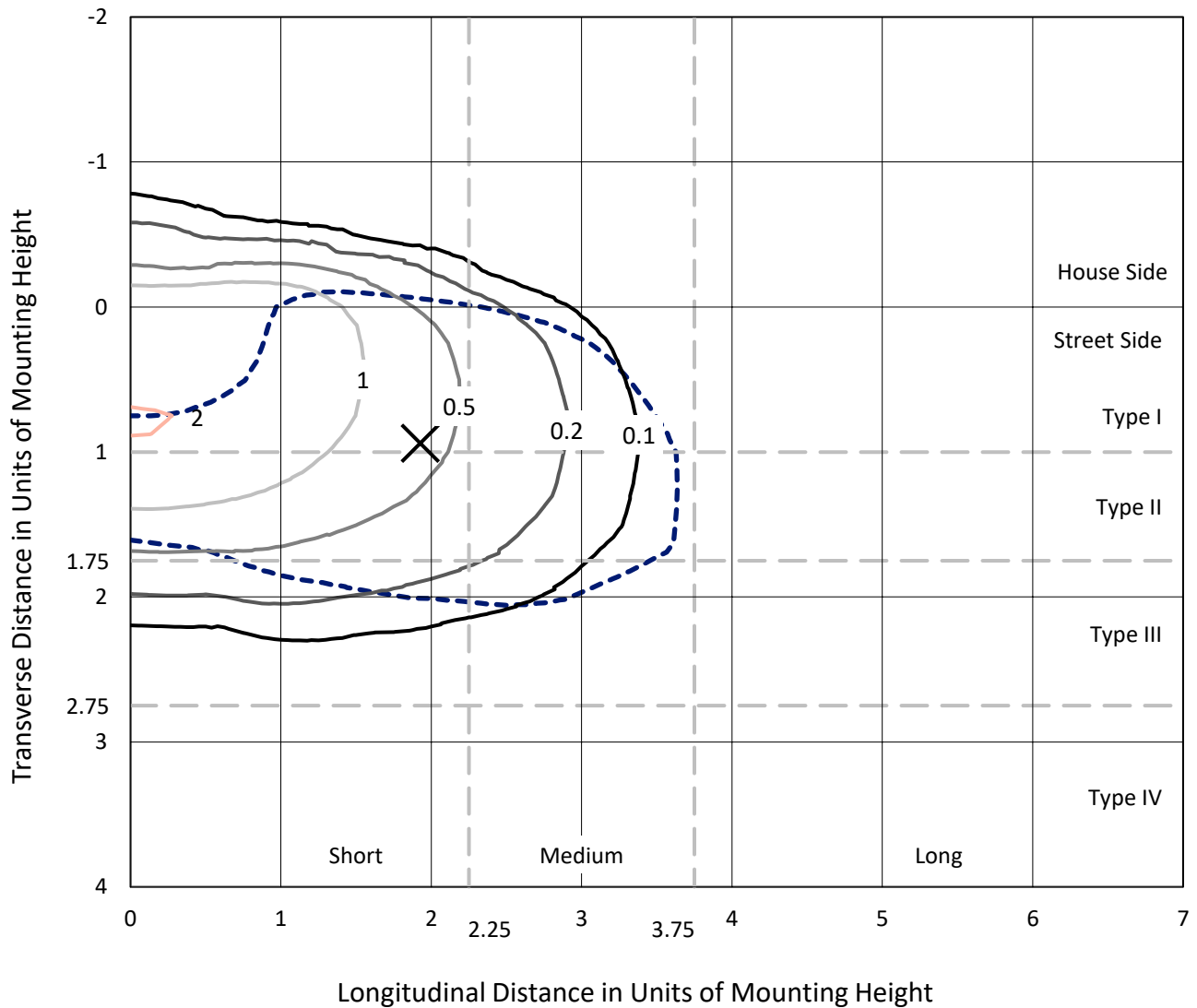
Input Watts (W): 73.9
Input Voltage (V): 120.0
Input Current (Ain): 0.627
Voltage Rise (V): NR
Power Factor: 0.988
Total Harmonic Distortion (THDi): 13.593
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P882378
 CATALOG NUMBER: NAV-SB2B-722-U-T3-HSS

Iso-Footcandle Lines of Horizontal Illumination

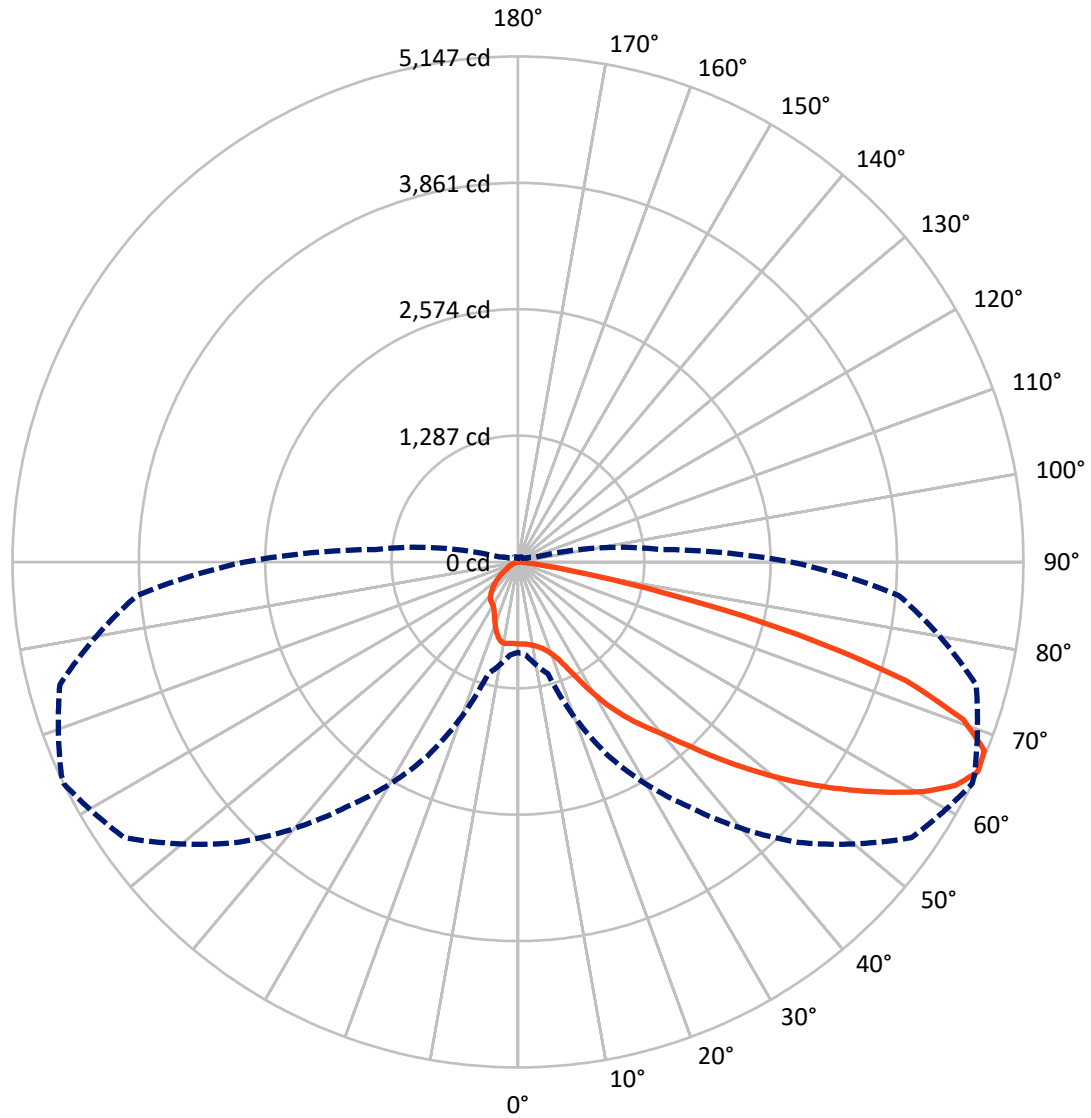
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.1 fc
 Type III - Short - N/A

REPORT NUMBER: P882378
CATALOG NUMBER: NAV-SB2B-722-U-T3-HSS

Luminous Intensity Polar Plot



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

REPORT NUMBER: P882378

CATALOG NUMBER: NAV-SB2B-722-U-T3-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	959.1	0.0	959.1
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	6212.9	0.0	6212.9
	% Fixture	86.6	0.0	86.6
Total	Lumens	7172.0	0.0	7172.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	77.0	1.1
10°-20°	208.7	2.9
20°-30°	395.5	5.5
30°-40°	800.4	11.2
40°-50°	1363.5	19.0
50°-60°	1854.2	25.9
60°-70°	1741.2	24.3
70°-80°	697.6	9.7
80°-90°	33.8	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°	7172.0	100.0
0°-180°	7172.0	100.0

Coefficient of Utilization



REPORT NUMBER: P882378

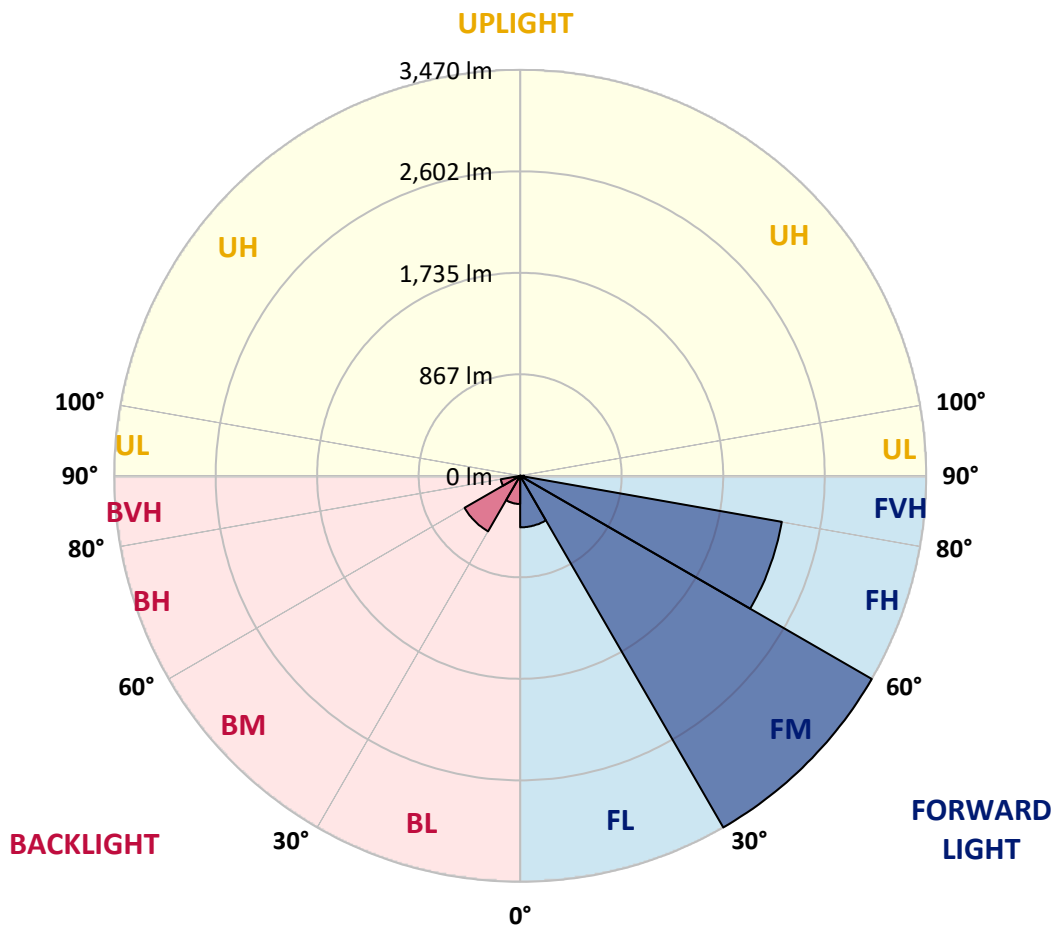
CATALOG NUMBER: NAV-SB2B-722-U-T3-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	440.4	6.1			
FM (30°-60°)	3469.8	48.4			
FH (60°-80°)	2270.5	31.7			G2/5000
FVH (80°-90°)	32.1	0.4			G1/100
BL (0°-30°)	240.8	3.4	B1/500		
BM (30°-60°)	548.3	7.6	B1/1000		
BH (60°-80°)	168.3	2.3	B1/500		G1/500
BVH (80°-90°)	1.6	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-G2

Type III Short



REPORT NUMBER: P882378

CATALOG NUMBER: NAV-SB2B-722-U-T3-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	834.2	834.2	834.2	834.2	834.2	834.2	834.2	834.2	834.2	834.2	834.2
2.5°	831.3	837.1	835.6	834.2	833.7	834.7	835.1	834.7	834.7	834.7	835.1
5°	815.4	820.2	820.2	823.6	828.4	834.2	838.5	839.5	840.4	841.9	841.4
7.5°	785.1	789.0	791.9	802.9	814.9	830.3	843.3	850.0	851.0	856.3	858.2
10°	764.5	769.3	774.1	785.6	802.9	826.0	848.1	864.5	866.9	879.4	885.1
12.5°	763.5	768.3	774.6	787.1	807.3	831.8	858.7	882.3	886.6	904.9	916.9
15°	773.6	779.4	785.1	800.5	822.2	852.0	880.8	910.1	914.5	940.4	953.4
17.5°	794.3	802.0	806.3	821.7	844.8	877.9	915.9	949.6	953.4	983.7	1000.1
20°	835.1	844.3	845.7	858.2	880.8	916.4	961.6	1003.4	1008.2	1042.8	1061.1
22.5°	919.8	932.7	921.2	927.5	947.6	983.2	1032.3	1085.2	1091.9	1131.3	1147.7
25°	1068.8	1087.1	1057.3	1046.7	1055.3	1092.4	1153.9	1220.7	1228.4	1260.2	1268.3
27.5°	1361.6	1338.1	1292.9	1248.6	1222.7	1243.8	1313.0	1395.7	1405.4	1436.1	1426.5
30°	1683.3	1662.6	1601.5	1503.4	1441.9	1438.5	1502.5	1594.8	1605.9	1635.2	1605.9
32.5°	2005.4	1985.7	1919.3	1798.7	1691.9	1639.0	1683.3	1785.7	1791.4	1810.2	1766.9
35°	2322.2	2302.0	2235.7	2112.1	1980.9	1860.7	1852.0	1967.4	1969.3	1989.0	1924.6
37.5°	2641.0	2624.2	2553.5	2432.3	2303.0	2137.1	2056.8	2139.5	2141.9	2161.2	2094.3
40°	2868.4	2875.6	2827.1	2733.3	2622.3	2441.0	2286.7	2322.7	2308.3	2340.5	2300.6
42.5°	3063.6	3078.0	3035.7	2988.6	2924.2	2764.6	2571.3	2565.0	2542.0	2559.3	2517.9
45°	3232.4	3244.4	3206.4	3195.4	3193.9	3081.9	2882.4	2844.9	2812.6	2809.3	2759.8
47.5°	3294.4	3317.5	3333.8	3370.8	3443.0	3395.8	3204.0	3145.8	3109.8	3083.3	3005.0
50°	3318.0	3342.5	3398.3	3506.0	3676.6	3696.8	3524.2	3458.8	3414.6	3366.5	3251.1
52.5°	3286.2	3330.0	3405.0	3586.2	3833.9	3938.2	3831.4	3774.2	3723.8	3645.4	3474.2
55°	3099.2	3143.0	3296.3	3585.3	3912.2	4107.4	4121.8	4096.4	4039.6	3916.1	3654.5
57.5°	2704.9	2769.9	3012.7	3463.2	3910.8	4253.1	4406.5	4424.7	4361.3	4184.4	3796.4
60°	2158.8	2246.8	2542.9	3192.5	3790.1	4332.0	4656.0	4747.4	4680.1	4448.8	3911.3
62.5°	1506.3	1608.3	1888.6	2768.4	3514.1	4275.2	4838.2	5007.0	4956.0	4685.3	3955.5
65°	918.8	951.5	1177.5	2178.5	3044.9	4037.7	4894.5	5147.4	5130.6	4830.1	3890.1
67.5°	612.1	639.5	704.4	1493.8	2363.6	3563.2	4759.9	5122.9	5127.7	4806.5	3650.7
70°	368.8	392.3	434.6	868.8	1531.8	2820.3	4343.0	4810.3	4838.2	4491.6	3196.8
72.5°	151.9	167.8	206.3	393.8	793.3	1790.0	3458.4	4130.0	4194.9	3776.6	2453.5
75°	86.1	94.2	121.2	197.6	344.2	834.2	2094.8	2931.9	3027.6	2603.0	1476.0
77.5°	57.2	61.1	78.4	127.9	193.8	284.6	895.2	1527.5	1710.2	1421.7	639.0
80°	38.5	41.8	53.8	85.6	126.0	122.1	285.1	565.9	696.2	488.5	155.8
82.5°	26.0	26.4	38.5	56.3	79.8	59.1	84.1	176.0	221.2	141.4	59.1
85°	14.9	14.4	28.4	32.7	35.6	24.5	25.5	52.9	69.2	59.6	33.7
87.5°	1.9	2.9	11.1	8.7	4.8	5.3	5.3	9.1	13.5	14.4	7.2
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: P882378

CATALOG NUMBER: NAV-SB2B-722-U-T3-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	834.2	834.2	834.2	834.2	834.2	834.2	834.2	834.2	834.2	834.2	834.2
2.5°	835.1	834.7	833.2	831.8	828.4	826.5	827.4	826.5	826.0	826.5	828.4
5°	841.4	839.9	836.1	831.3	824.6	816.4	811.1	803.4	796.2	791.9	792.8
7.5°	858.2	856.8	851.5	838.0	816.4	782.3	751.0	723.6	702.9	690.9	691.4
10°	885.1	882.7	874.6	844.8	788.0	713.5	651.5	600.0	566.4	550.5	549.1
12.5°	916.9	914.0	899.6	838.5	734.2	617.8	532.2	475.0	443.8	429.8	428.4
15°	954.4	950.5	922.2	808.7	655.8	512.0	433.7	390.9	370.7	358.2	358.7
17.5°	1001.0	994.3	939.0	764.0	570.7	431.3	373.1	340.9	323.1	311.1	310.1
20°	1061.6	1050.5	952.5	710.6	492.3	380.3	332.2	305.3	291.8	281.3	279.3
22.5°	1146.2	1130.3	968.8	652.9	437.0	345.2	301.9	282.2	271.2	259.1	257.2
25°	1251.0	1232.3	989.0	599.6	399.1	314.9	279.8	263.5	250.5	236.6	235.1
27.5°	1397.7	1364.0	1013.0	555.8	366.4	289.0	259.6	241.4	226.5	214.9	212.5
30°	1561.1	1505.8	1034.2	529.4	336.6	264.9	233.2	214.9	201.0	192.8	191.4
32.5°	1716.0	1641.0	1048.1	517.8	309.6	237.5	204.3	184.6	174.0	171.6	173.1
35°	1862.1	1763.1	1046.7	506.8	285.6	210.1	176.0	155.8	147.6	149.0	149.0
37.5°	2030.4	1893.4	1036.6	489.4	265.9	185.1	151.5	133.7	126.4	126.9	128.9
40°	2226.1	2043.9	1030.3	456.8	244.2	162.0	131.3	116.8	111.5	109.6	109.1
42.5°	2434.7	2189.5	1031.3	419.7	217.3	141.4	117.3	105.3	100.5	99.0	98.6
45°	2644.4	2328.5	1032.7	381.3	189.0	125.5	107.2	97.1	94.2	92.3	92.3
47.5°	2841.5	2446.8	1005.8	339.9	161.1	113.5	99.0	92.3	89.9	87.5	87.5
50°	3025.2	2525.6	940.9	291.8	138.9	103.9	92.8	88.0	85.6	83.2	83.2
52.5°	3168.0	2538.1	833.7	242.3	123.6	96.6	88.9	84.6	81.7	79.3	78.9
55°	3231.4	2459.7	681.3	196.2	111.5	90.4	85.1	80.8	77.4	75.0	74.5
57.5°	3215.1	2294.8	531.3	157.7	100.0	84.1	80.3	77.4	73.6	69.7	69.2
60°	3134.8	2074.1	400.5	131.3	89.4	77.4	75.0	72.6	67.3	61.5	60.6
62.5°	2995.8	1796.7	285.6	108.7	77.9	69.7	68.8	66.8	59.1	48.6	47.6
65°	2783.3	1459.7	192.3	90.4	66.8	61.1	61.5	58.2	48.1	36.1	35.1
67.5°	2472.7	1067.4	123.1	74.0	55.8	51.0	51.4	49.5	40.9	30.8	29.3
70°	2077.0	706.8	80.3	56.3	44.7	39.4	42.3	42.8	34.6	25.0	24.0
72.5°	1522.7	417.3	56.3	41.8	32.7	27.4	34.6	35.6	27.9	18.8	17.8
75°	867.8	198.1	42.3	30.3	20.2	19.2	26.9	26.9	19.2	12.5	11.5
77.5°	364.4	82.7	29.8	19.7	11.5	11.1	18.3	16.8	9.6	5.8	5.8
80°	105.3	37.0	15.9	9.6	4.8	4.3	7.2	5.3	2.4	1.0	1.0
82.5°	41.3	16.3	6.3	3.8	1.9	1.9	1.0	0.0	0.0	0.0	0.0
85°	24.5	6.7	2.9	1.4	0.5	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	6.3	1.4	1.0	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)