

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: P882038

Luminaire Tested: **NAV-SB1D-722-U-T3-HSS**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P882038
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-SB1D-722-U-T3-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 2200K, 900mA 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: 6365 lumens
Efficiency: N/A
Efficacy: 80.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

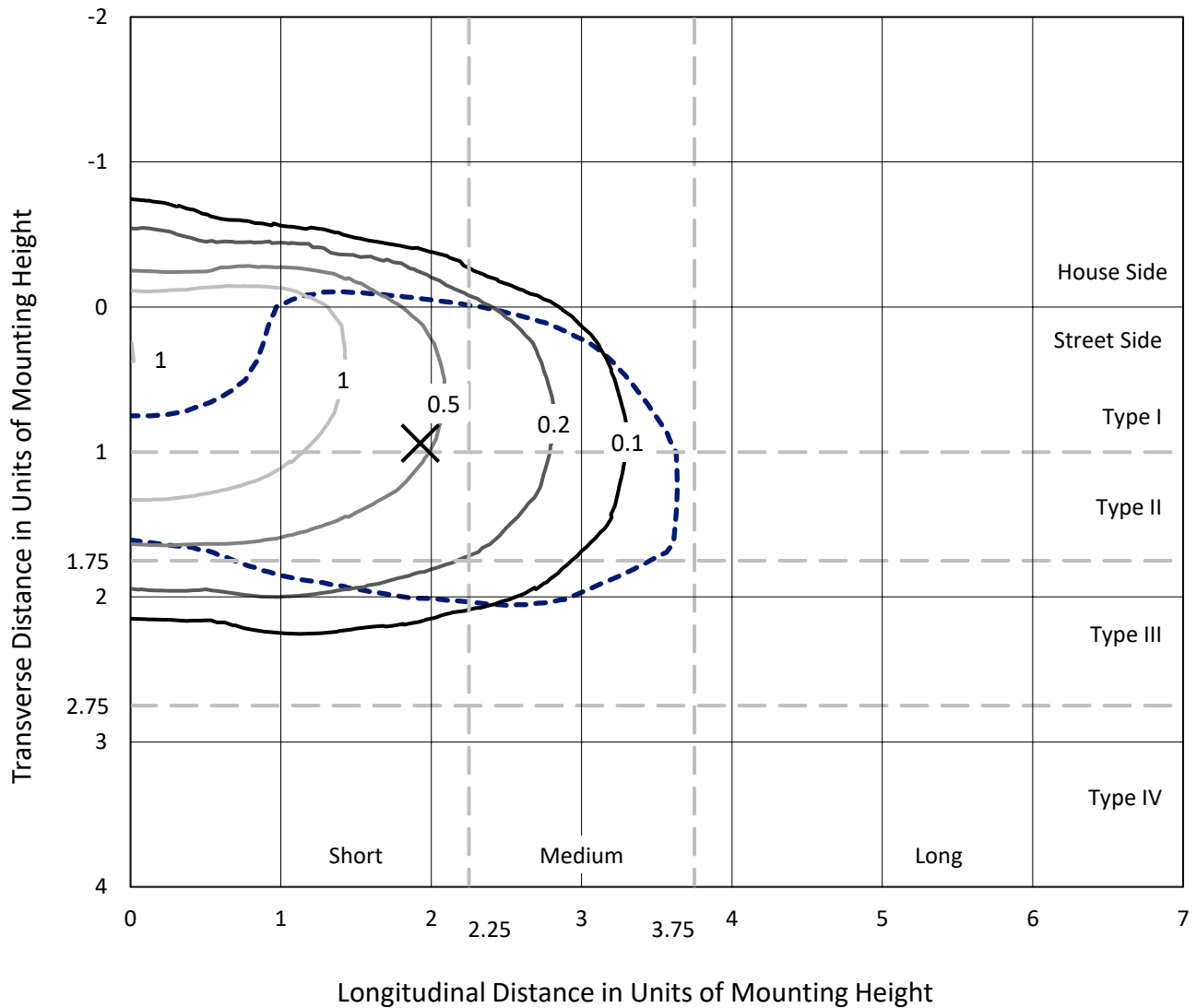
Input Watts (W): 79.6
Input Voltage (V): 120.0
Input Current (Ain): 0.638
Voltage Rise (V): NR
Power Factor: 0.997
Total Harmonic Distortion (THDi): 6.673
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

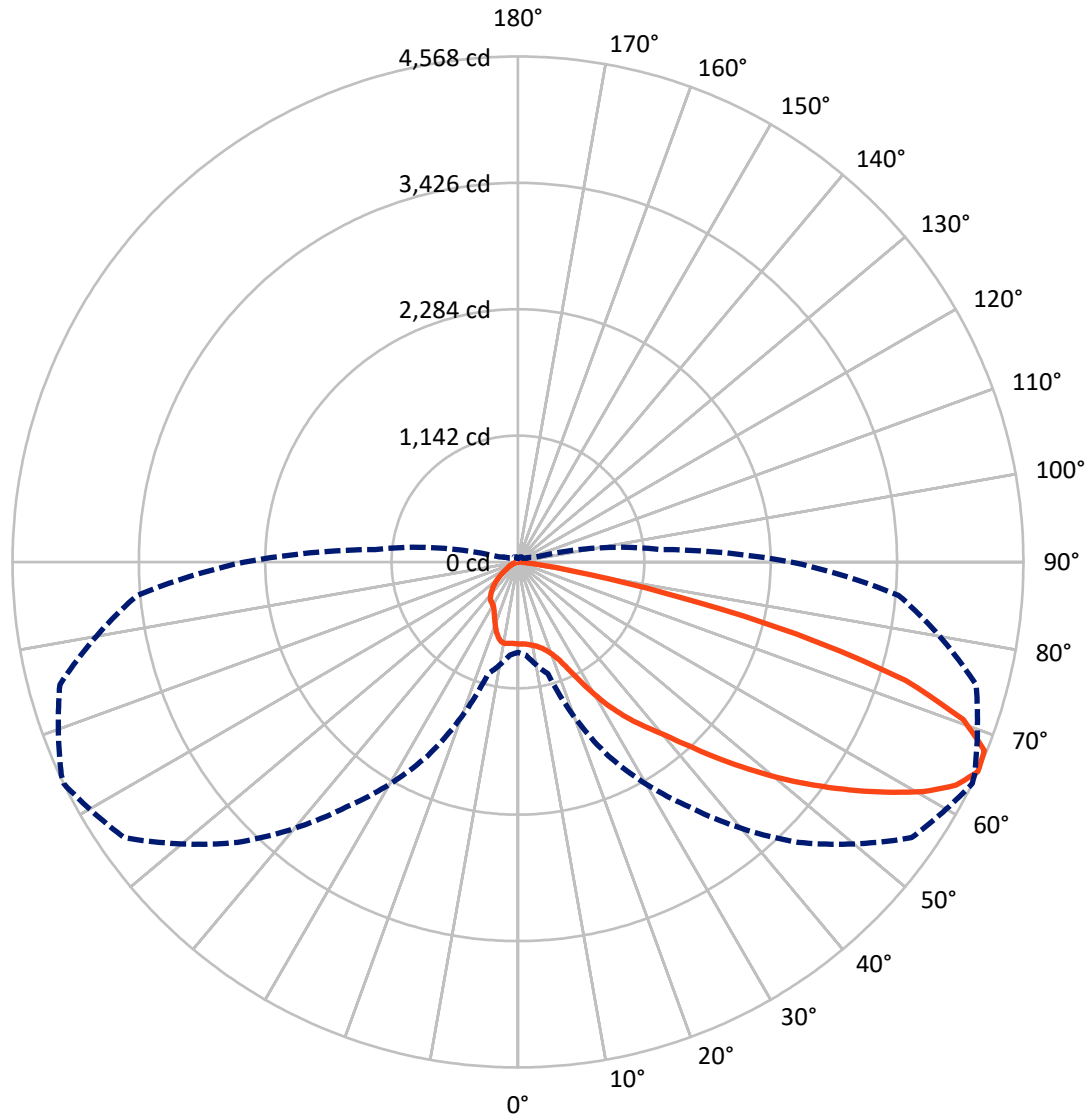
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.9 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	851.2	0.0	851.2
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	5513.8	0.0	5513.8
	% Fixture	86.6	0.0	86.6
Total	Lumens	6365.0	0.0	6365.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	68.3	1.1
10°-20°	185.3	2.9
20°-30°	351.0	5.5
30°-40°	710.3	11.2
40°-50°	1210.1	19.0
50°-60°	1645.6	25.9
60°-70°	1545.3	24.3
70°-80°	619.1	9.7
80°-90°	30.0	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°	6365.0	100.0
0°-180°	6365.0	100.0

Coefficient of Utilization



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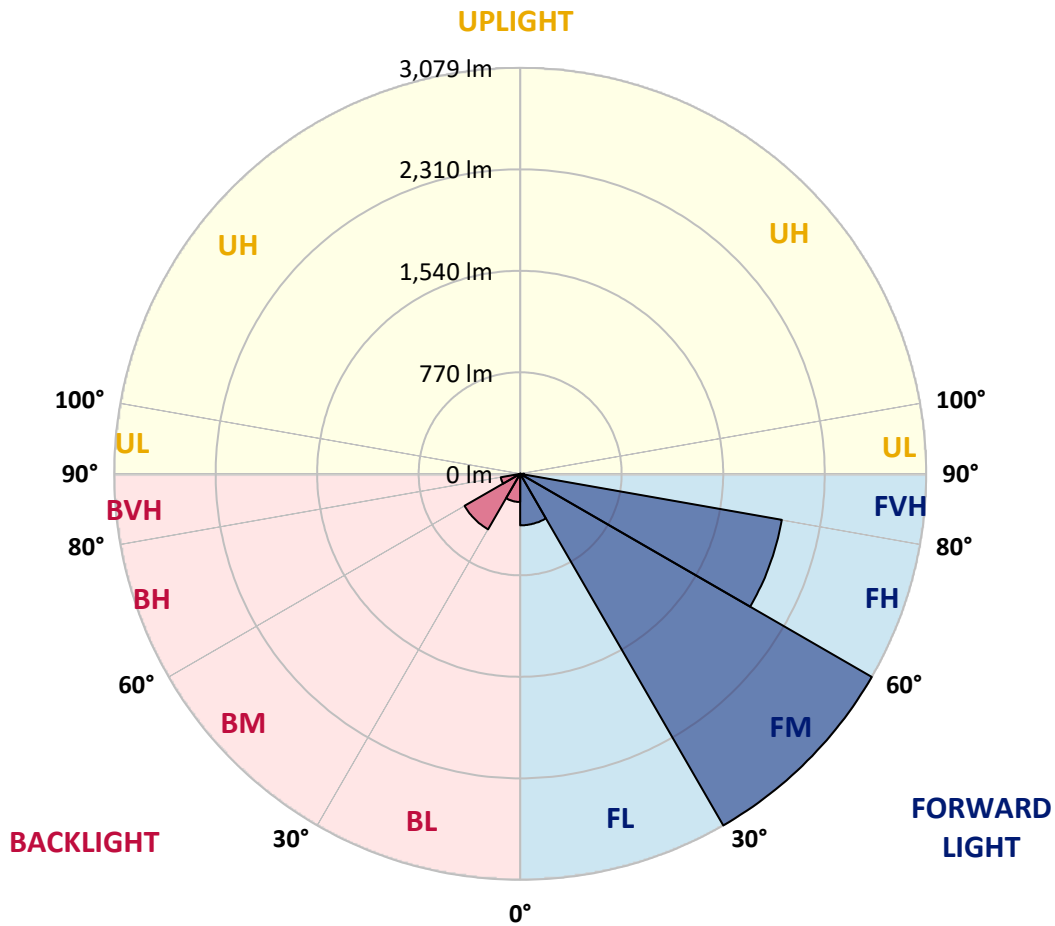
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	390.9	6.1			
FM (30°-60°)	3079.4	48.4			
FH (60°-80°)	2015.0	31.7			G2/5000
FVH (80°-90°)	28.5	0.4			G1/100
BL (0°-30°)	213.7	3.4	B1/500		
BM (30°-60°)	486.6	7.6	B1/1000		
BH (60°-80°)	149.4	2.3	B1/500		G1/500
BVH (80°-90°)	1.5	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-G2

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	740.3	740.3	740.3	740.3	740.3	740.3	740.3	740.3	740.3	740.3	740.3
2.5°	737.8	742.9	741.6	740.3	739.9	740.7	741.2	740.7	740.7	740.7	741.2
5°	723.7	727.9	727.9	730.9	735.2	740.3	744.2	745.0	745.9	747.1	746.7
7.5°	696.8	700.2	702.8	712.6	723.2	736.9	748.4	754.4	755.2	759.9	761.7
10°	678.4	682.7	687.0	697.2	712.6	733.1	752.7	767.2	769.3	780.4	785.5
12.5°	677.6	681.9	687.4	698.5	716.4	738.2	762.1	783.0	786.8	803.0	813.7
15°	686.6	691.7	696.8	710.4	729.6	756.1	781.7	807.7	811.6	834.6	846.1
17.5°	704.9	711.7	715.6	729.2	749.7	779.1	812.9	842.7	846.1	873.0	887.5
20°	741.2	749.3	750.6	761.7	781.7	813.3	853.4	890.5	894.8	925.5	941.7
22.5°	816.3	827.8	817.5	823.1	841.0	872.6	916.1	963.1	969.0	1004.0	1018.5
25°	948.5	964.8	938.3	928.9	936.6	969.5	1024.1	1083.4	1090.2	1118.4	1125.6
27.5°	1208.4	1187.5	1147.4	1108.1	1085.1	1103.9	1165.3	1238.7	1247.2	1274.5	1266.0
30°	1493.9	1475.5	1421.3	1334.3	1279.7	1276.7	1333.4	1415.3	1425.2	1451.2	1425.2
32.5°	1779.7	1762.2	1703.4	1596.3	1501.5	1454.6	1493.9	1584.7	1589.9	1606.5	1568.1
35°	2060.9	2043.0	1984.1	1874.5	1758.0	1651.3	1643.6	1746.0	1747.7	1765.2	1708.1
37.5°	2343.8	2328.9	2266.2	2158.6	2043.9	1896.7	1825.4	1898.8	1900.9	1918.0	1858.7
40°	2545.7	2552.1	2509.0	2425.8	2327.2	2166.3	2029.4	2061.4	2048.6	2077.2	2041.7
42.5°	2718.9	2731.7	2694.2	2652.3	2595.2	2453.5	2282.0	2276.4	2255.9	2271.3	2234.6
45°	2868.7	2879.3	2845.6	2835.8	2834.5	2735.1	2558.0	2524.8	2496.2	2493.2	2449.2
47.5°	2923.7	2944.2	2958.7	2991.6	3055.6	3013.7	2843.5	2791.9	2759.9	2736.4	2666.8
50°	2944.6	2966.4	3015.9	3111.5	3262.9	3280.9	3127.7	3069.6	3030.4	2987.7	2885.3
52.5°	2916.5	2955.3	3021.9	3182.7	3402.5	3495.1	3400.3	3349.6	3304.8	3235.2	3083.3
55°	2750.5	2789.3	2925.4	3181.9	3472.0	3645.3	3658.1	3635.4	3585.1	3475.4	3243.3
57.5°	2400.6	2458.2	2673.7	3073.5	3470.7	3774.5	3910.7	3926.9	3870.5	3713.5	3369.2
60°	1915.9	1993.9	2256.8	2833.3	3363.6	3844.5	4132.1	4213.2	4153.4	3948.2	3471.2
62.5°	1336.8	1427.3	1676.1	2456.9	3118.7	3794.2	4293.8	4443.6	4398.4	4158.1	3510.4
65°	815.4	844.4	1045.0	1933.4	2702.3	3583.4	4343.8	4568.2	4553.3	4286.6	3452.4
67.5°	543.2	567.5	625.1	1325.7	2097.6	3162.2	4224.3	4546.4	4550.7	4265.7	3239.9
70°	327.3	348.2	385.7	771.0	1359.4	2503.0	3854.3	4269.1	4293.8	3986.2	2837.1
72.5°	134.8	148.9	183.1	349.5	704.0	1588.6	3069.2	3665.3	3722.9	3351.7	2177.4
75°	76.4	83.6	107.5	175.4	305.5	740.3	1859.1	2602.0	2686.9	2310.1	1310.0
77.5°	50.8	54.2	69.6	113.5	172.0	252.6	794.5	1355.6	1517.8	1261.7	567.1
80°	34.1	37.1	47.8	76.0	111.8	108.4	253.0	502.2	617.9	433.5	138.2
82.5°	23.0	23.5	34.1	49.9	70.8	52.5	74.7	156.2	196.3	125.4	52.5
85°	13.2	12.8	25.2	29.0	31.6	21.8	22.6	46.9	61.4	52.9	29.9
87.5°	1.7	2.6	9.8	7.7	4.3	4.7	4.7	8.1	11.9	12.8	6.4
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°	740.3	740.3	740.3	740.3	740.3	740.3	740.3	740.3	740.3	740.3	740.3
2.5°	741.2	740.7	739.5	738.2	735.2	733.5	734.3	733.5	733.1	733.5	735.2
5°	746.7	745.4	742.0	737.8	731.8	724.5	719.8	713.0	706.6	702.8	703.6
7.5°	761.7	760.4	755.7	743.7	724.5	694.2	666.5	642.2	623.8	613.2	613.6
10°	785.5	783.4	776.2	749.7	699.4	633.2	578.2	532.5	502.6	488.6	487.3
12.5°	813.7	811.1	798.3	744.2	651.6	548.3	472.4	421.6	393.8	381.5	380.2
15°	847.0	843.6	818.4	717.7	582.0	454.4	384.9	346.9	329.0	317.9	318.3
17.5°	888.4	882.4	833.3	678.0	506.5	382.7	331.1	302.5	286.7	276.1	275.2
20°	942.1	932.3	845.3	630.7	436.9	337.5	294.8	271.0	259.0	249.6	247.9
22.5°	1017.2	1003.2	859.8	579.5	387.9	306.4	268.0	250.5	240.7	230.0	228.3
25°	1110.3	1093.6	877.7	532.1	354.2	279.5	248.3	233.8	222.3	209.9	208.7
27.5°	1240.4	1210.5	899.0	493.3	325.1	256.4	230.4	214.2	201.0	190.7	188.6
30°	1385.5	1336.4	917.8	469.8	298.7	235.1	206.9	190.7	178.4	171.1	169.8
32.5°	1522.9	1456.3	930.2	459.6	274.8	210.8	181.3	163.9	154.5	152.3	153.6
35°	1652.6	1564.7	928.9	449.7	253.5	186.5	156.2	138.2	131.0	132.3	132.3
37.5°	1801.9	1680.3	920.0	434.4	236.0	164.3	134.4	118.6	112.2	112.6	114.4
40°	1975.6	1813.9	914.4	405.4	216.8	143.8	116.5	103.7	99.0	97.3	96.9
42.5°	2160.8	1943.2	915.3	372.5	192.9	125.4	104.1	93.4	89.2	87.9	87.5
45°	2346.8	2066.5	916.5	338.4	167.7	111.4	95.2	86.2	83.6	81.9	81.9
47.5°	2521.8	2171.5	892.6	301.7	142.9	100.7	87.9	81.9	79.8	77.7	77.7
50°	2684.8	2241.4	835.0	259.0	123.3	92.2	82.4	78.1	76.0	73.8	73.8
52.5°	2811.5	2252.5	739.9	215.1	109.7	85.8	78.9	75.1	72.5	70.4	70.0
55°	2867.8	2183.0	604.6	174.1	99.0	80.2	75.5	71.7	68.7	66.6	66.1
57.5°	2853.3	2036.6	471.5	140.0	88.8	74.7	71.3	68.7	65.3	61.9	61.4
60°	2782.1	1840.8	355.4	116.5	79.4	68.7	66.6	64.4	59.7	54.6	53.8
62.5°	2658.7	1594.6	253.5	96.4	69.1	61.9	61.0	59.3	52.5	43.1	42.2
65°	2470.1	1295.4	170.7	80.2	59.3	54.2	54.6	51.6	42.7	32.0	31.1
67.5°	2194.5	947.3	109.2	65.7	49.5	45.2	45.7	43.9	36.3	27.3	26.0
70°	1843.3	627.2	71.3	49.9	39.7	35.0	37.5	38.0	30.7	22.2	21.3
72.5°	1351.3	370.4	49.9	37.1	29.0	24.3	30.7	31.6	24.7	16.6	15.8
75°	770.2	175.8	37.5	26.9	17.9	17.1	23.9	23.9	17.1	11.1	10.2
77.5°	323.4	73.4	26.5	17.5	10.2	9.8	16.2	14.9	8.5	5.1	5.1
80°	93.4	32.9	14.1	8.5	4.3	3.8	6.4	4.7	2.1	0.9	0.9
82.5°	36.7	14.5	5.5	3.4	1.7	1.7	0.9	0.0	0.0	0.0	0.0
85°	21.8	6.0	2.6	1.3	0.4	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	5.5	1.3	0.9	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)