

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: P881878

Luminaire Tested: **NAV-SB1C-727-U-T3-HSS**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P881878
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-SB1C-727-U-T3-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 2700K, 615mA 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: 5327 lumens
Efficiency: N/A
Efficacy: 97.9 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

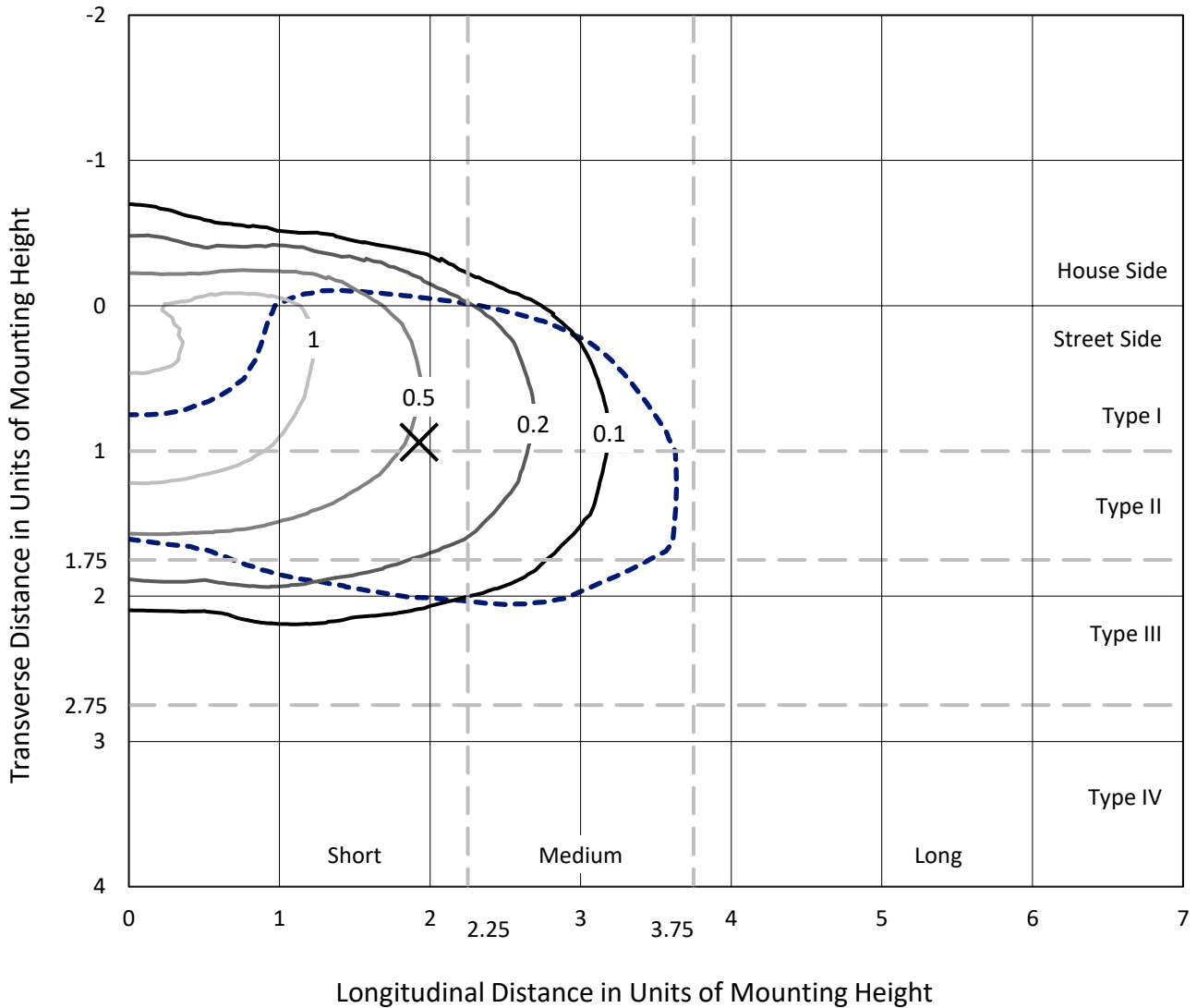
Input Watts (W): 54.4
Input Voltage (V): 120.0
Input Current (Ain): 0.437
Voltage Rise (V): NR
Power Factor: 0.993
Total Harmonic Distortion (THDi): 9.314
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P881878
 CATALOG NUMBER: NAV-SB1C-727-U-T3-HSS

Iso-Footcandle Lines of Horizontal Illumination

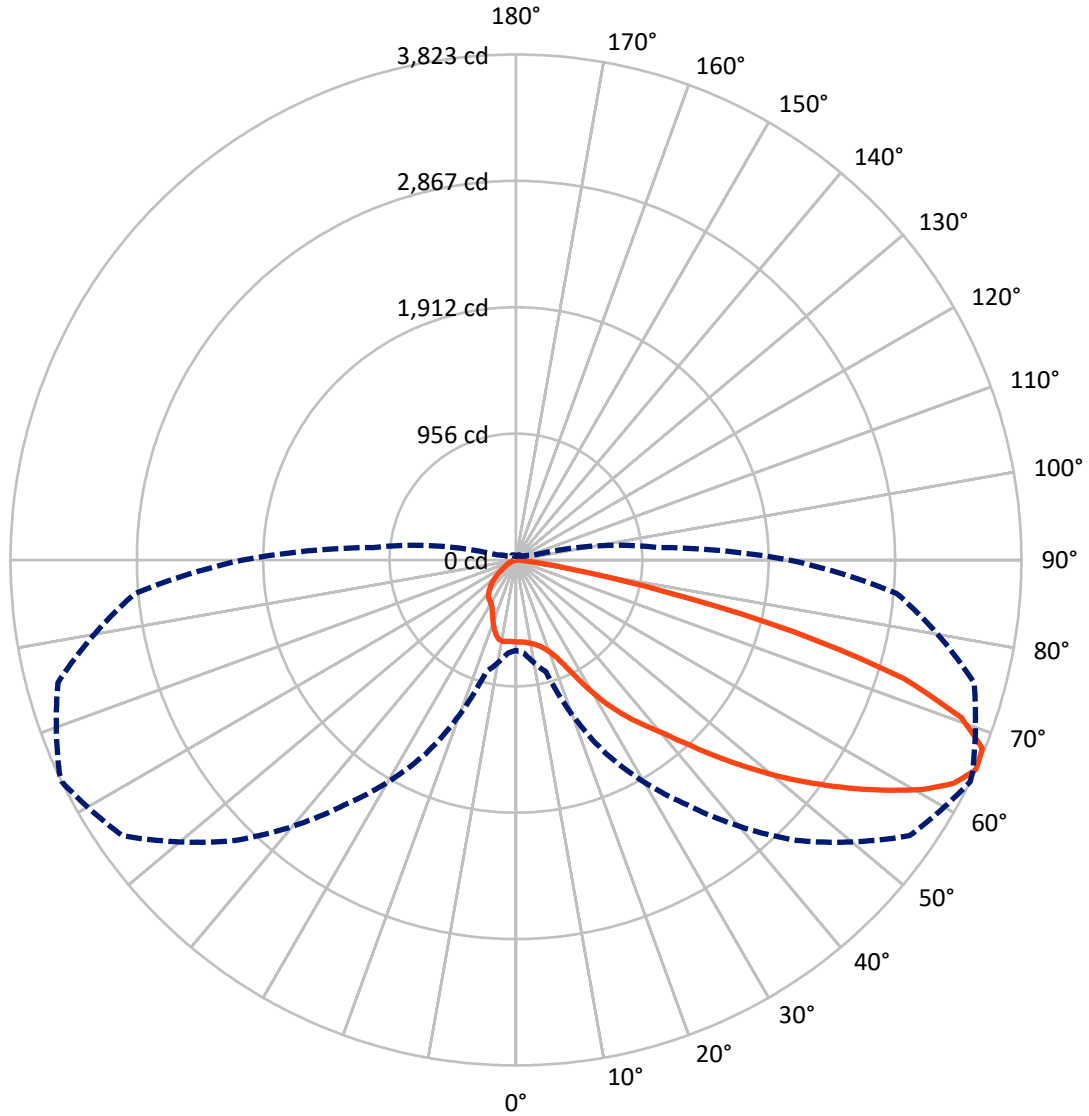
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.6 fc
 Type III - Short - N/A

REPORT NUMBER: P881878
CATALOG NUMBER: NAV-SB1C-727-U-T3-HSS

Luminous Intensity Polar Plot



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

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CATALOG NUMBER: NAV-SB1C-727-U-T3-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	712.4	0.0	712.4
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	4614.6	0.0	4614.6
	% Fixture	86.6	0.0	86.6
Total	Lumens	5327.0	0.0	5327.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	57.2	1.1
10°-20°	155.0	2.9
20°-30°	293.8	5.5
30°-40°	594.5	11.2
40°-50°	1012.7	19.0
50°-60°	1377.2	25.9
60°-70°	1293.3	24.3
70°-80°	518.1	9.7
80°-90°	25.1	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°	5327.0	100.0
0°-180°	5327.0	100.0

Coefficient of Utilization



REPORT NUMBER: P881878

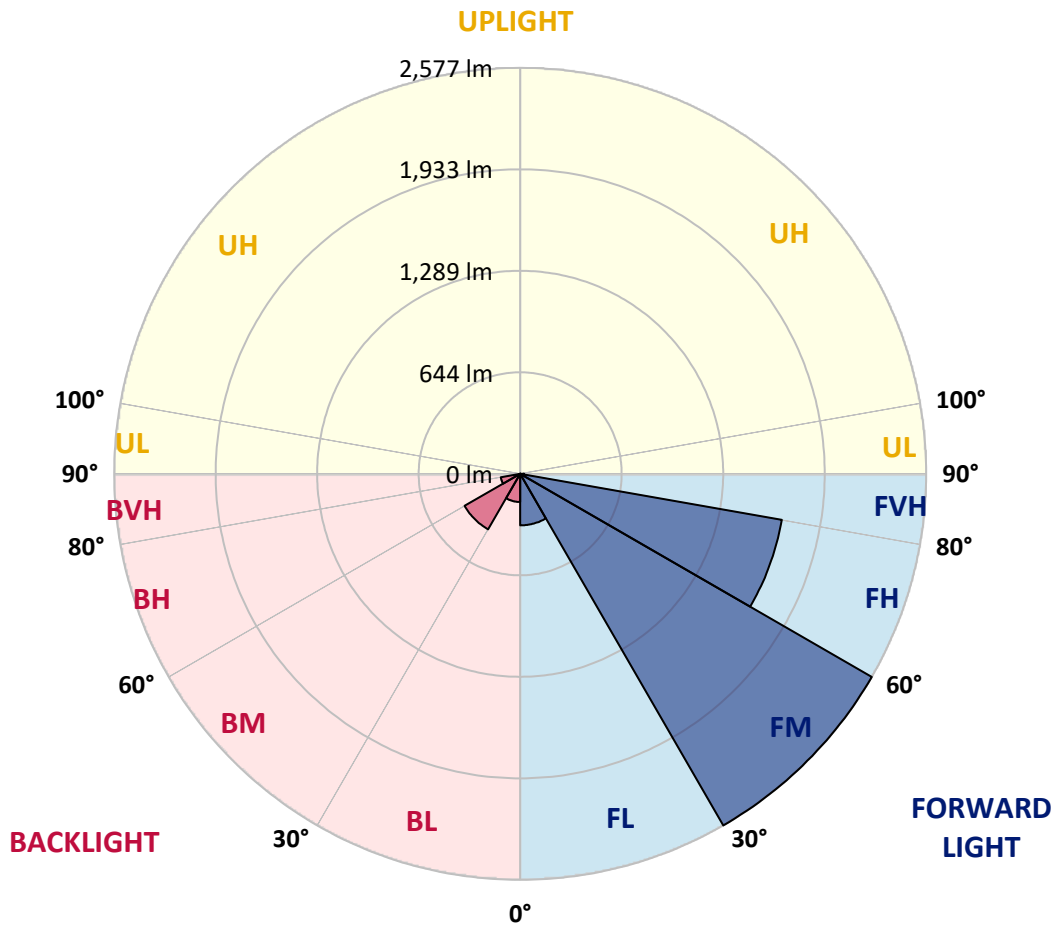
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	327.1	6.1			
FM (30°-60°)	2577.2	48.4			
FH (60°-80°)	1686.4	31.7			G1/1800
FVH (80°-90°)	23.9	0.4			G1/100
BL (0°-30°)	178.9	3.4	B1/500		
BM (30°-60°)	407.3	7.6	B1/1000		
BH (60°-80°)	125.0	2.3	B1/500		G1/500
BVH (80°-90°)	1.2	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



REPORT NUMBER: P881878

CATALOG NUMBER: NAV-SB1C-727-U-T3-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	619.6	619.6	619.6	619.6	619.6	619.6	619.6	619.6	619.6	619.6	619.6
2.5°	617.4	621.7	620.7	619.6	619.2	619.9	620.3	619.9	619.9	619.9	620.3
5°	605.7	609.2	609.2	611.7	615.3	619.6	622.8	623.5	624.2	625.3	624.9
7.5°	583.2	586.0	588.2	596.4	605.3	616.7	626.4	631.4	632.1	636.0	637.4
10°	567.8	571.4	574.9	583.5	596.4	613.5	629.9	642.1	643.9	653.2	657.4
12.5°	567.1	570.7	575.3	584.6	599.6	617.8	637.8	655.3	658.5	672.1	681.0
15°	574.6	578.9	583.2	594.6	610.7	632.8	654.2	676.0	679.2	698.5	708.1
17.5°	589.9	595.7	598.9	610.3	627.4	652.1	680.3	705.3	708.1	730.6	742.8
20°	620.3	627.1	628.2	637.4	654.2	680.7	714.2	745.3	748.9	774.6	788.1
22.5°	683.2	692.8	684.2	688.9	703.9	730.3	766.7	806.0	811.0	840.3	852.4
25°	793.9	807.4	785.3	777.4	783.9	811.4	857.1	906.7	912.4	936.0	942.1
27.5°	1011.3	993.8	960.3	927.4	908.1	923.8	975.3	1036.7	1043.8	1066.7	1059.5
30°	1250.2	1234.9	1189.5	1116.7	1071.0	1068.5	1116.0	1184.5	1192.7	1214.5	1192.7
32.5°	1489.5	1474.9	1425.6	1335.9	1256.7	1217.4	1250.2	1326.3	1330.6	1344.5	1312.4
35°	1724.8	1709.8	1660.6	1568.8	1471.3	1382.0	1375.6	1461.3	1462.7	1477.4	1429.5
37.5°	1961.6	1949.1	1896.6	1806.6	1710.6	1587.4	1527.7	1589.1	1590.9	1605.2	1555.6
40°	2130.5	2135.9	2099.8	2030.2	1947.7	1813.0	1698.4	1725.2	1714.5	1738.4	1708.8
42.5°	2275.5	2286.2	2254.8	2219.8	2171.9	2053.4	1909.8	1905.2	1888.0	1900.9	1870.2
45°	2400.8	2409.8	2381.6	2373.4	2372.3	2289.1	2140.9	2113.0	2089.1	2086.6	2049.8
47.5°	2446.9	2464.1	2476.2	2503.7	2557.3	2522.3	2379.8	2336.6	2309.8	2290.1	2231.9
50°	2464.4	2482.6	2524.1	2604.0	2730.8	2745.8	2617.6	2569.0	2536.2	2500.5	2414.8
52.5°	2440.8	2473.3	2529.1	2663.7	2847.6	2925.1	2845.8	2803.3	2765.8	2707.6	2580.5
55°	2301.9	2334.4	2448.3	2663.0	2905.8	3050.8	3061.5	3042.6	3000.4	2908.7	2714.4
57.5°	2009.1	2057.3	2237.6	2572.3	2904.7	3159.0	3272.9	3286.5	3239.3	3107.9	2819.7
60°	1603.4	1668.8	1888.8	2371.2	2815.1	3217.6	3458.3	3526.1	3476.1	3304.3	2905.1
62.5°	1118.8	1194.5	1402.7	2056.2	2610.1	3175.4	3593.6	3718.9	3681.1	3480.0	2937.9
65°	682.4	706.7	874.6	1618.1	2261.6	2999.0	3635.4	3823.2	3810.7	3587.5	2889.4
67.5°	454.6	475.0	523.2	1109.5	1755.6	2646.5	3535.4	3805.0	3808.6	3570.0	2711.5
70°	273.9	291.4	322.8	645.3	1137.8	2094.8	3225.8	3572.9	3593.6	3336.1	2374.4
72.5°	112.8	124.6	153.2	292.5	589.2	1329.5	2568.7	3067.6	3115.8	2805.1	1822.3
75°	63.9	70.0	90.0	146.8	255.7	619.6	1555.9	2177.7	2248.7	1933.4	1096.3
77.5°	42.5	45.4	58.2	95.0	143.9	211.4	664.9	1134.5	1270.2	1056.0	474.6
80°	28.6	31.1	40.0	63.6	93.6	90.7	211.8	420.3	517.1	362.8	115.7
82.5°	19.3	19.6	28.6	41.8	59.3	43.9	62.5	130.7	164.3	105.0	43.9
85°	11.1	10.7	21.1	24.3	26.4	18.2	18.9	39.3	51.4	44.3	25.0
87.5°	1.4	2.1	8.2	6.4	3.6	3.9	3.9	6.8	10.0	10.7	5.4
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: P881878
 CATALOG NUMBER: NAV-SB1C-727-U-T3-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	619.6	619.6	619.6	619.6	619.6	619.6	619.6	619.6	619.6	619.6	619.6
2.5°	620.3	619.9	618.9	617.8	615.3	613.9	614.6	613.9	613.5	613.9	615.3
5°	624.9	623.9	621.0	617.4	612.4	606.4	602.4	596.7	591.4	588.2	588.9
7.5°	637.4	636.4	632.4	622.4	606.4	581.0	557.8	537.5	522.1	513.2	513.5
10°	657.4	655.7	649.6	627.4	585.3	530.0	483.9	445.7	420.7	408.9	407.8
12.5°	681.0	678.9	668.2	622.8	545.3	458.9	395.3	352.8	329.6	319.3	318.2
15°	708.9	706.0	684.9	600.7	487.1	380.3	322.1	290.3	275.3	266.0	266.4
17.5°	743.5	738.5	697.4	567.4	423.9	320.3	277.1	253.2	240.0	231.1	230.3
20°	788.5	780.3	707.4	527.8	365.7	282.5	246.8	226.8	216.8	208.9	207.5
22.5°	851.3	839.6	719.6	485.0	324.6	256.4	224.3	209.6	201.4	192.5	191.1
25°	929.2	915.3	734.6	445.3	296.4	233.9	207.8	195.7	186.1	175.7	174.6
27.5°	1038.1	1013.1	752.4	412.8	272.1	214.6	192.8	179.3	168.2	159.6	157.8
30°	1159.5	1118.5	768.1	393.2	250.0	196.8	173.2	159.6	149.3	143.2	142.1
32.5°	1274.5	1218.8	778.5	384.6	230.0	176.4	151.8	137.1	129.3	127.5	128.6
35°	1383.1	1309.5	777.4	376.4	212.1	156.1	130.7	115.7	109.6	110.7	110.7
37.5°	1508.1	1406.3	769.9	363.5	197.5	137.5	112.5	99.3	93.9	94.3	95.7
40°	1653.4	1518.1	765.3	339.3	181.4	120.3	97.5	86.8	82.8	81.4	81.1
42.5°	1808.4	1626.3	766.0	311.8	161.4	105.0	87.1	78.2	74.6	73.6	73.2
45°	1964.1	1729.5	767.1	283.2	140.3	93.2	79.6	72.1	70.0	68.6	68.6
47.5°	2110.5	1817.3	747.1	252.5	119.6	84.3	73.6	68.6	66.8	65.0	65.0
50°	2246.9	1875.9	698.9	216.8	103.2	77.1	68.9	65.4	63.6	61.8	61.8
52.5°	2353.0	1885.2	619.2	180.0	91.8	71.8	66.1	62.9	60.7	58.9	58.6
55°	2400.1	1827.0	506.0	145.7	82.8	67.1	63.2	60.0	57.5	55.7	55.4
57.5°	2388.0	1704.5	394.6	117.1	74.3	62.5	59.6	57.5	54.6	51.8	51.4
60°	2328.4	1540.6	297.5	97.5	66.4	57.5	55.7	53.9	50.0	45.7	45.0
62.5°	2225.2	1334.5	212.1	80.7	57.9	51.8	51.1	49.6	43.9	36.1	35.4
65°	2067.3	1084.2	142.8	67.1	49.6	45.4	45.7	43.2	35.7	26.8	26.1
67.5°	1836.6	792.8	91.4	55.0	41.4	37.9	38.2	36.8	30.4	22.9	21.8
70°	1542.7	525.0	59.6	41.8	33.2	29.3	31.4	31.8	25.7	18.6	17.9
72.5°	1131.0	310.0	41.8	31.1	24.3	20.4	25.7	26.4	20.7	13.9	13.2
75°	644.6	147.1	31.4	22.5	15.0	14.3	20.0	20.0	14.3	9.3	8.6
77.5°	270.7	61.4	22.1	14.6	8.6	8.2	13.6	12.5	7.1	4.3	4.3
80°	78.2	27.5	11.8	7.1	3.6	3.2	5.4	3.9	1.8	0.7	0.7
82.5°	30.7	12.1	4.6	2.9	1.4	1.4	0.7	0.0	0.0	0.0	0.0
85°	18.2	5.0	2.1	1.1	0.4	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	4.6	1.1	0.7	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)