

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: P881908

Luminaire Tested: **NAV-SB1C-740-U-T3-HSS**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P881908
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-740-U-T3-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 4000K, 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: 6338 lumens
Efficiency: N/A
Efficacy: 116.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

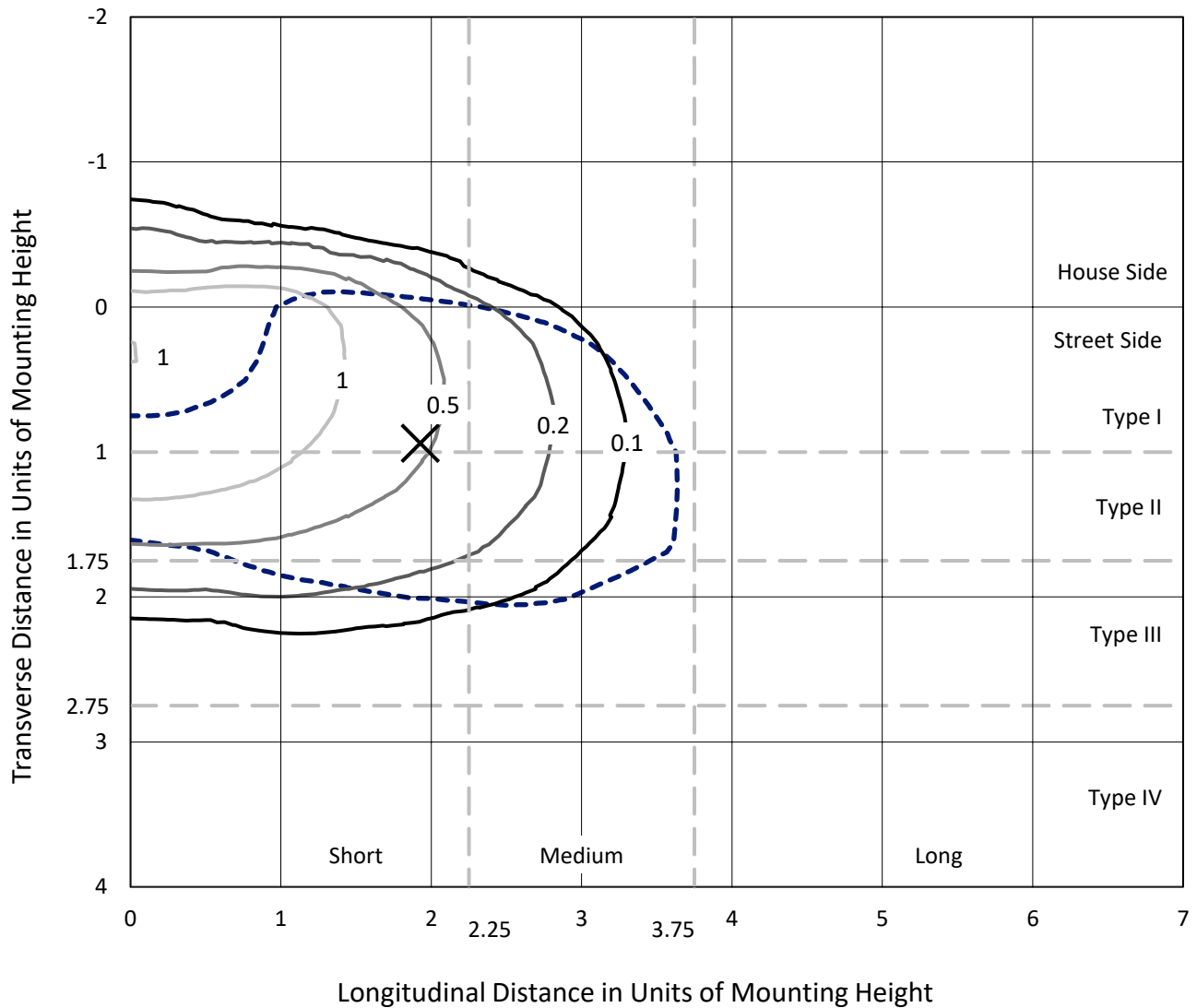
Input Watts (W): 54.4
Input Voltage (V): 120.0
Input Current (Ain): 0.437
Voltage Rise (V): NR
Power Factor: 0.993
Total Harmonic Distortion (THDi): 9.314
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

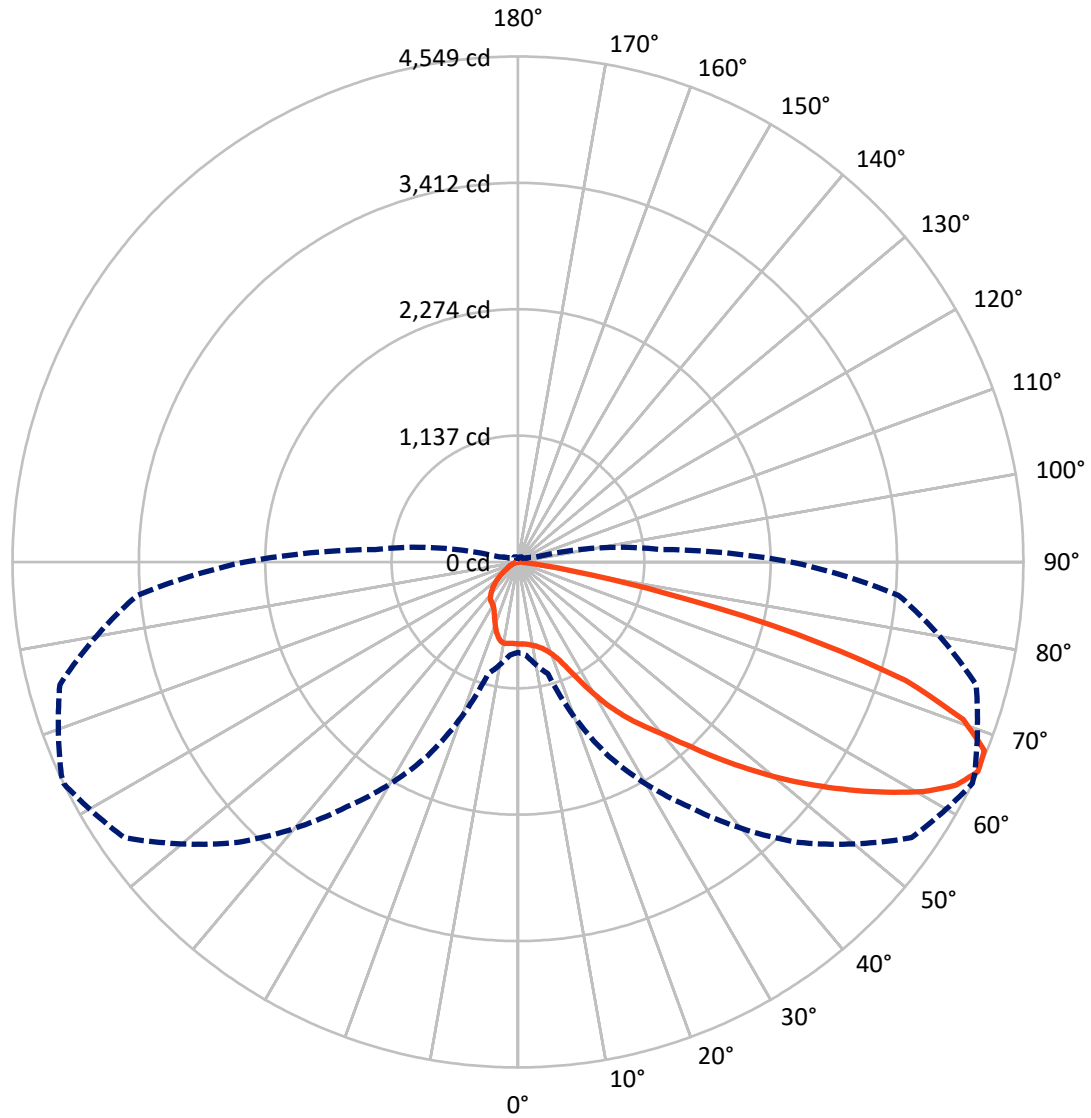
✕ Max cd
 - - - 1/2 Max cd



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	847.6	0.0	847.6
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	5490.4	0.0	5490.4
	% Fixture	86.6	0.0	86.6
Total	Lumens	6338.0	0.0	6338.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	68.0	1.1
10°-20°	184.5	2.9
20°-30°	349.5	5.5
30°-40°	707.3	11.2
40°-50°	1204.9	19.0
50°-60°	1638.6	25.9
60°-70°	1538.7	24.3
70°-80°	616.5	9.7
80°-90°	29.9	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°	6338.0	100.0
0°-180°	6338.0	100.0

Coefficient of Utilization



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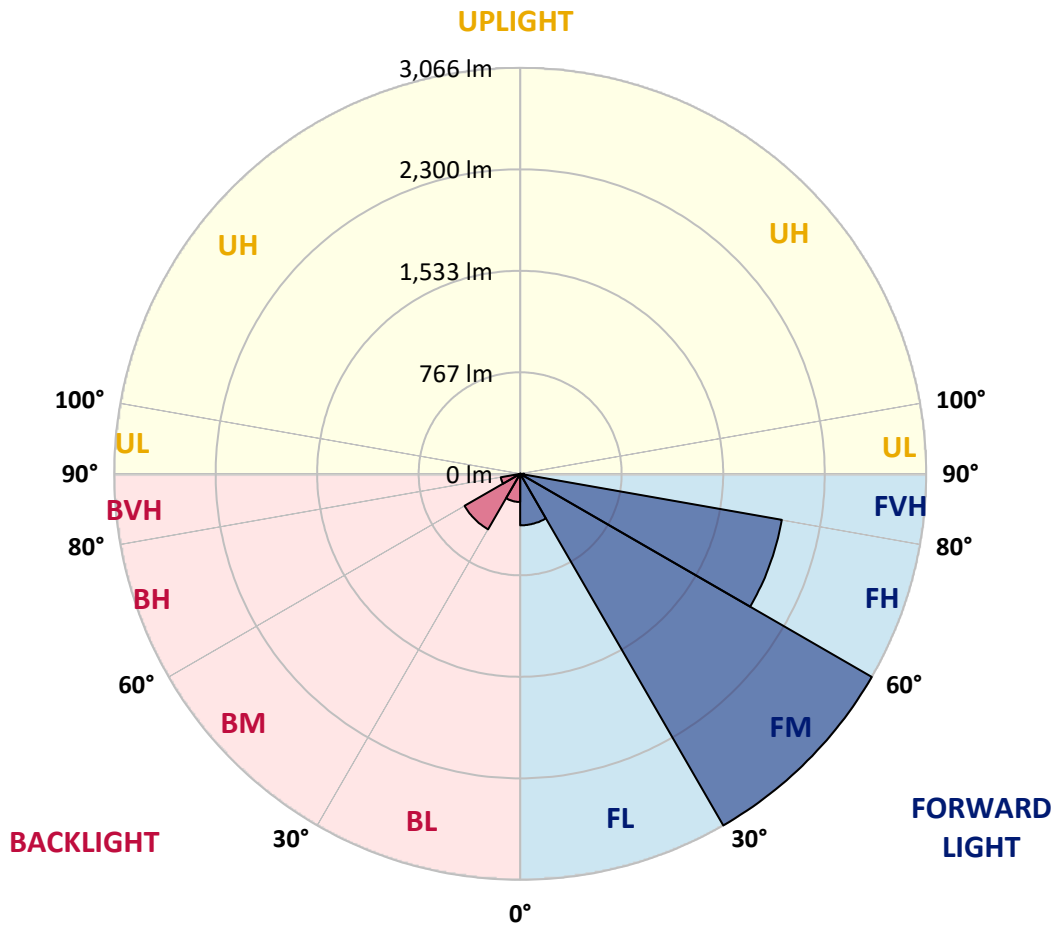
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	389.2	6.1			
FM (30°-60°)	3066.3	48.4			
FH (60°-80°)	2006.5	31.7			G2/5000
FVH (80°-90°)	28.4	0.4			G1/100
BL (0°-30°)	212.8	3.4	B1/500		
BM (30°-60°)	484.6	7.6	B1/1000		
BH (60°-80°)	148.8	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°	737.2	737.2	737.2	737.2	737.2	737.2	737.2	737.2	737.2	737.2	737.2
2.5°	734.6	739.7	738.4	737.2	736.8	737.6	738.0	737.6	737.6	737.6	738.0
5°	720.6	724.9	724.9	727.8	732.1	737.2	741.0	741.8	742.7	744.0	743.5
7.5°	693.8	697.2	699.8	709.6	720.2	733.8	745.2	751.2	752.0	756.7	758.4
10°	675.6	679.8	684.1	694.3	709.6	730.0	749.5	763.9	766.1	777.1	782.2
12.5°	674.7	679.0	684.5	695.5	713.4	735.1	758.8	779.7	783.5	799.6	810.3
15°	683.6	688.7	693.8	707.4	726.6	752.9	778.4	804.3	808.1	831.1	842.5
17.5°	701.9	708.7	712.5	726.1	746.5	775.8	809.4	839.1	842.5	869.3	883.8
20°	738.0	746.1	747.4	758.4	778.4	809.8	849.8	886.7	891.0	921.6	937.7
22.5°	812.8	824.3	814.1	819.6	837.4	868.9	912.2	959.0	964.9	999.8	1014.2
25°	944.5	960.7	934.3	925.0	932.6	965.3	1019.7	1078.8	1085.6	1113.6	1120.8
27.5°	1203.3	1182.5	1142.5	1103.4	1080.5	1099.2	1160.4	1233.4	1241.9	1269.1	1260.6
30°	1487.5	1469.3	1415.3	1328.6	1274.2	1271.3	1327.8	1409.3	1419.1	1445.0	1419.1
32.5°	1772.2	1754.8	1696.1	1589.5	1495.2	1448.4	1487.5	1578.0	1583.1	1599.7	1561.5
35°	2052.2	2034.3	1975.7	1866.5	1750.5	1644.3	1636.7	1738.6	1740.3	1757.7	1700.8
37.5°	2333.9	2319.0	2256.6	2149.5	2035.2	1888.6	1817.7	1890.7	1892.9	1909.9	1850.8
40°	2534.9	2541.2	2498.3	2415.5	2317.3	2157.1	2020.8	2052.6	2039.9	2068.3	2033.1
42.5°	2707.4	2720.1	2682.7	2641.1	2584.1	2443.1	2272.3	2266.8	2246.4	2261.7	2225.1
45°	2856.5	2867.1	2833.6	2823.8	2822.5	2723.5	2547.2	2514.0	2485.6	2482.6	2438.8
47.5°	2911.3	2931.7	2946.2	2978.9	3042.6	3001.0	2831.4	2780.0	2748.2	2724.8	2655.5
50°	2932.1	2953.8	3003.1	3098.3	3249.1	3266.9	3114.4	3056.6	3017.5	2975.0	2873.1
52.5°	2904.1	2942.8	3009.0	3169.2	3388.0	3480.2	3385.9	3335.3	3290.7	3221.5	3070.2
55°	2738.8	2777.5	2913.0	3168.4	3457.3	3629.8	3642.5	3620.0	3569.9	3460.7	3229.5
57.5°	2390.4	2447.8	2662.3	3060.4	3456.0	3758.5	3894.1	3910.2	3854.1	3697.8	3354.9
60°	1907.7	1985.5	2247.2	2821.2	3349.4	3828.2	4114.6	4195.3	4135.8	3931.5	3456.4
62.5°	1331.2	1421.2	1668.9	2446.5	3105.5	3778.1	4275.6	4424.8	4379.7	4140.5	3495.5
65°	812.0	840.8	1040.5	1925.2	2690.8	3568.2	4325.3	4548.8	4533.9	4268.4	3437.7
67.5°	540.9	565.1	622.5	1320.1	2088.7	3148.8	4206.4	4527.1	4531.4	4247.6	3226.2
70°	325.9	346.7	384.1	767.8	1353.7	2492.4	3838.0	4251.0	4275.6	3969.3	2825.1
72.5°	134.3	148.3	182.3	348.0	701.1	1581.8	3056.2	3649.8	3707.1	3337.5	2168.2
75°	76.1	83.3	107.1	174.6	304.2	737.2	1851.2	2590.9	2675.5	2300.3	1304.4
77.5°	50.6	54.0	69.3	113.0	171.2	251.5	791.1	1349.9	1511.3	1256.4	564.7
80°	34.0	37.0	47.6	75.6	111.3	107.9	252.0	500.1	615.2	431.7	137.7
82.5°	22.9	23.4	34.0	49.7	70.5	52.3	74.4	155.5	195.4	124.9	52.3
85°	13.2	12.7	25.1	28.9	31.4	21.7	22.5	46.7	61.2	52.7	29.7
87.5°	1.7	2.5	9.8	7.6	4.2	4.7	4.7	8.1	11.9	12.7	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°	737.2	737.2	737.2	737.2	737.2	737.2	737.2	737.2	737.2	737.2	737.2
2.5°	738.0	737.6	736.3	735.1	732.1	730.4	731.2	730.4	730.0	730.4	732.1
5°	743.5	742.3	738.9	734.6	728.7	721.5	716.8	710.0	703.6	699.8	700.6
7.5°	758.4	757.1	752.5	740.6	721.5	691.3	663.7	639.5	621.2	610.6	611.0
10°	782.2	780.1	772.9	746.5	696.4	630.5	575.7	530.3	500.5	486.5	485.2
12.5°	810.3	807.7	795.0	741.0	648.8	546.0	470.3	419.8	392.2	379.8	378.6
15°	843.4	840.0	814.9	714.7	579.5	452.5	383.2	345.4	327.6	316.5	317.0
17.5°	884.6	878.7	829.8	675.1	504.3	381.1	329.7	301.2	285.5	274.9	274.1
20°	938.1	928.4	841.7	628.0	435.1	336.1	293.6	269.8	257.9	248.6	246.9
22.5°	1012.9	998.9	856.1	577.0	386.2	305.1	266.8	249.4	239.6	229.0	227.3
25°	1105.6	1089.0	874.0	529.8	352.7	278.3	247.3	232.8	221.4	209.0	207.8
27.5°	1235.1	1205.4	895.2	491.2	323.8	255.4	229.4	213.3	200.1	189.9	187.8
30°	1379.6	1330.7	913.9	467.8	297.4	234.1	206.1	189.9	177.6	170.4	169.1
32.5°	1516.4	1450.1	926.2	457.6	273.6	209.9	180.6	163.2	153.8	151.7	153.0
35°	1645.6	1558.1	925.0	447.8	252.4	185.7	155.5	137.7	130.4	131.7	131.7
37.5°	1794.3	1673.2	916.1	432.5	235.0	163.6	133.8	118.1	111.7	112.2	113.9
40°	1967.2	1806.2	910.5	403.6	215.8	143.2	116.0	103.2	98.6	96.9	96.4
42.5°	2151.6	1934.9	911.4	370.9	192.0	124.9	103.7	93.0	88.8	87.5	87.1
45°	2336.9	2057.7	912.7	336.9	167.0	110.9	94.7	85.8	83.3	81.6	81.6
47.5°	2511.1	2162.2	888.9	300.4	142.3	100.3	87.5	81.6	79.5	77.3	77.3
50°	2673.4	2231.9	831.5	257.9	122.8	91.8	82.0	77.8	75.6	73.5	73.5
52.5°	2799.6	2243.0	736.8	214.1	109.2	85.4	78.6	74.8	72.2	70.1	69.7
55°	2855.7	2173.7	602.1	173.4	98.6	79.9	75.2	71.4	68.4	66.3	65.9
57.5°	2841.2	2028.0	469.5	139.4	88.4	74.4	71.0	68.4	65.0	61.6	61.2
60°	2770.2	1833.0	353.9	116.0	79.0	68.4	66.3	64.2	59.5	54.4	53.5
62.5°	2647.5	1587.8	252.4	96.0	68.8	61.6	60.8	59.1	52.3	42.9	42.1
65°	2459.7	1290.0	170.0	79.9	59.1	54.0	54.4	51.4	42.5	31.9	31.0
67.5°	2185.2	943.2	108.8	65.4	49.3	45.0	45.5	43.8	36.1	27.2	25.9
70°	1835.5	624.6	71.0	49.7	39.5	34.8	37.4	37.8	30.6	22.1	21.2
72.5°	1345.6	368.8	49.7	37.0	28.9	24.2	30.6	31.4	24.6	16.6	15.7
75°	766.9	175.1	37.4	26.8	17.8	17.0	23.8	23.8	17.0	11.0	10.2
77.5°	322.1	73.1	26.3	17.4	10.2	9.8	16.1	14.9	8.5	5.1	5.1
80°	93.0	32.7	14.0	8.5	4.2	3.8	6.4	4.7	2.1	0.8	0.8
82.5°	36.5	14.4	5.5	3.4	1.7	1.7	0.8	0.0	0.0	0.0	0.0
85°	21.7	5.9	2.5	1.3	0.4	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	5.5	1.3	0.8	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)