

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: P881870

Luminaire Tested: **NAV-SB1C-722-U-T4FT-HSS**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P881870
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-25)
Test Lab: INNOVATION CENTER
Issue Date: 10/7/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB1C-722-U-T4FT-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 2200K, 615mA LIGHTSQUARE WITH 26 LEDS AND TYPE IV FORWARD
THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4522 lumens
Efficiency: N/A
Efficacy: 83.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

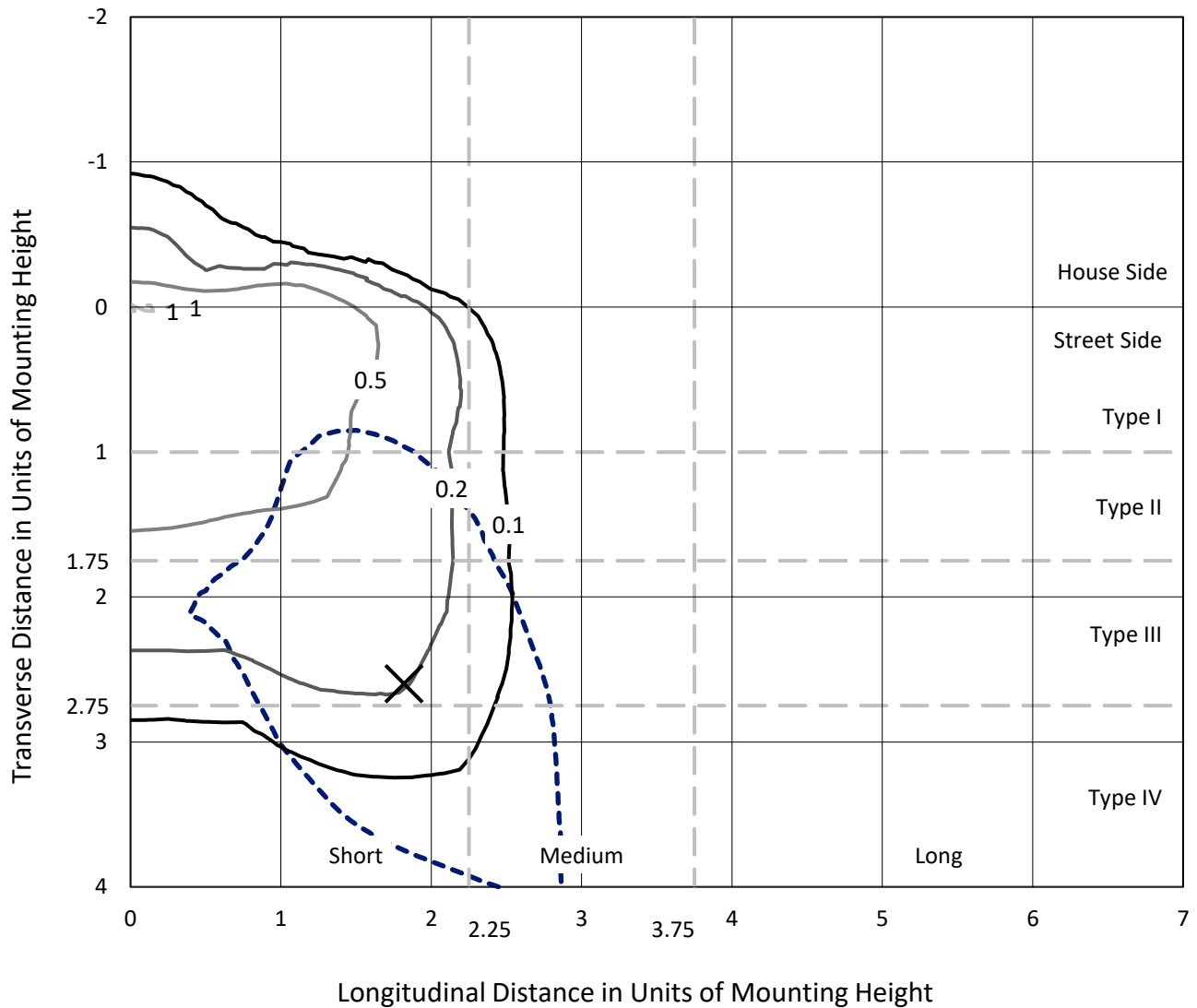
Input Watts (W): 54.4
Input Voltage (V): 120.0
Input Current (Ain): 0.437
Voltage Rise (V): NR
Power Factor: 0.993
Total Harmonic Distortion (THDi): 9.314
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

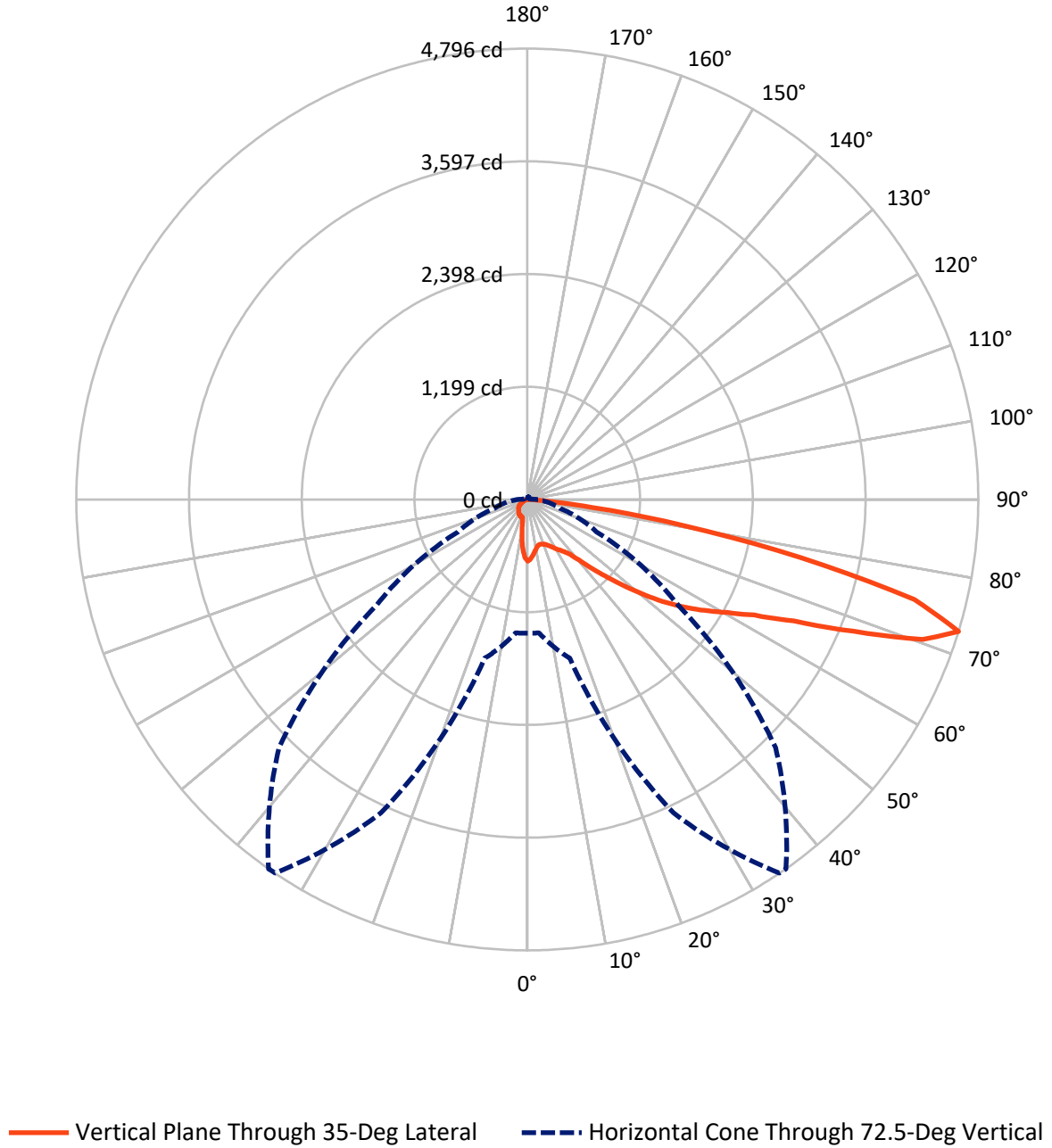
× Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	508.9	0.0	508.9
	% Fixture	11.3	0.0	11.3
Street Side	Lumens	4013.1	0.0	4013.1
	% Fixture	88.7	0.0	88.7
Total	Lumens	4522.0	0.0	4522.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	53.9	1.2
10°-20°	126.0	2.8
20°-30°	204.7	4.5
30°-40°	341.5	7.6
40°-50°	646.1	14.3
50°-60°	1026.6	22.7
60°-70°	1270.0	28.1
70°-80°	789.5	17.5
80°-90°	63.8	1.4
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°	4522.0	100.0
0°-180°	4522.0	100.0

Coefficient of Utilization



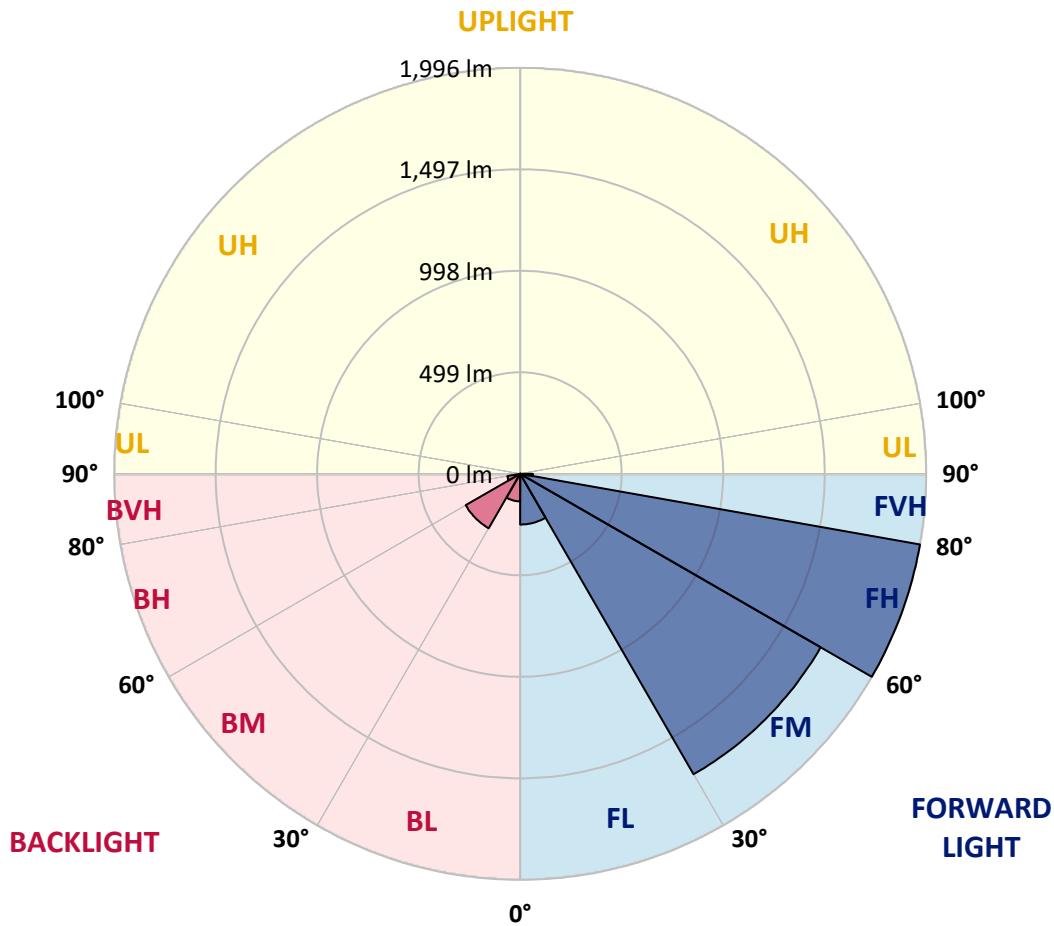
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	249.3	5.5			
FM (30°-60°)	1705.2	37.7			
FH (60°-80°)	1995.6	44.1			G2/5000
FVH (80°-90°)	62.9	1.4			G1/100
BL (0°-30°)	135.2	3.0	B1/500		
BM (30°-60°)	309.0	6.8	B1/1000		
BH (60°-80°)	63.9	1.4	B0/110		G0/110
BVH (80°-90°)	0.9	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 IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	655.4	655.4	655.4	655.4	655.4	655.4	655.4	655.4	655.4	655.4	655.4
2.5°	626.2	631.5	632.5	634.2	634.2	636.2	639.5	644.1	651.7	655.7	658.4
5°	577.2	581.2	586.1	590.1	597.7	598.7	611.7	624.2	641.8	655.1	664.3
7.5°	527.8	532.5	539.1	548.7	558.6	561.6	581.2	602.4	630.2	655.1	670.6
10°	493.0	493.4	499.3	508.9	524.8	528.5	552.3	582.5	617.3	651.1	676.6
12.5°	473.5	475.8	478.5	485.7	501.0	503.3	528.8	564.3	604.4	648.8	683.6
15°	473.5	475.1	476.8	480.4	492.7	494.7	517.2	552.7	597.7	649.8	694.8
17.5°	478.5	481.1	479.8	484.1	497.0	498.3	518.2	549.4	597.4	656.1	712.0
20°	490.4	492.4	489.7	492.4	505.3	507.9	528.5	555.7	603.0	667.0	733.6
22.5°	509.3	510.3	504.0	506.0	519.2	522.5	546.4	573.5	616.6	684.5	762.4
25°	533.1	535.1	525.5	527.8	540.4	544.4	571.9	600.4	638.2	708.7	799.2
27.5°	560.6	561.6	553.3	553.0	569.2	574.9	602.7	633.5	667.0	739.2	845.6
30°	592.1	595.1	587.1	585.8	606.4	611.0	638.5	674.3	709.4	784.9	911.5
32.5°	617.0	619.3	614.6	617.9	638.8	642.5	681.9	731.9	776.0	849.9	1001.3
35°	652.7	654.1	643.5	649.4	673.3	682.6	741.2	812.8	859.8	931.4	1118.6
37.5°	782.3	782.3	737.2	707.7	730.6	738.9	822.4	914.5	963.2	1040.7	1266.4
40°	961.5	958.6	892.6	832.3	829.3	845.6	938.0	1042.7	1096.7	1171.9	1432.7
42.5°	1152.7	1148.1	1058.3	998.7	988.7	994.3	1071.6	1200.8	1255.8	1332.0	1611.6
45°	1322.4	1321.1	1238.9	1158.7	1140.8	1158.7	1238.2	1385.7	1425.1	1505.3	1790.2
47.5°	1464.5	1464.5	1404.5	1352.2	1342.9	1353.5	1463.9	1590.8	1587.1	1689.8	1964.2
50°	1628.2	1626.9	1569.9	1547.4	1557.0	1571.9	1723.6	1806.8	1754.8	1871.1	2119.6
52.5°	1742.8	1750.8	1731.2	1727.6	1776.6	1802.5	1987.4	2018.2	1904.9	2043.0	2235.9
55°	1833.6	1842.9	1865.4	1891.0	1985.4	2019.2	2242.8	2218.6	2030.4	2192.1	2302.8
57.5°	1962.2	1948.9	1983.7	2034.1	2186.8	2227.6	2490.3	2407.8	2131.5	2313.1	2310.1
60°	2118.3	2120.2	2126.2	2189.8	2388.0	2440.3	2734.2	2586.8	2196.4	2387.3	2229.3
62.5°	2305.8	2308.8	2321.0	2418.8	2658.0	2707.4	2994.0	2733.2	2226.3	2366.4	2020.5
65°	2292.9	2305.5	2442.3	2776.6	3068.5	3117.2	3297.2	2835.9	2181.2	2175.6	1645.1
67.5°	2088.8	2109.3	2338.3	3204.1	3687.5	3741.8	3663.6	2856.1	1986.7	1691.8	1073.2
70°	1821.0	1828.3	2103.7	3588.4	4404.2	4459.2	3991.6	2633.8	1507.6	943.7	480.8
72.5°	1422.1	1423.8	1746.8	3677.5	4793.2	4796.1	3734.2	1955.2	810.8	362.5	167.0
75°	1015.9	1005.9	1170.0	2982.4	4217.0	4250.8	2799.5	917.1	309.8	171.3	83.2
77.5°	544.7	555.7	662.0	1768.7	2913.1	2970.8	1527.5	264.4	157.7	116.6	55.0
80°	168.3	177.6	271.4	809.8	1650.1	1684.9	566.3	117.6	110.0	83.2	36.1
82.5°	53.0	55.0	126.6	340.3	684.9	700.8	164.0	66.6	75.2	55.0	21.2
85°	15.2	15.6	56.3	126.9	169.3	172.6	46.1	25.8	43.1	34.1	10.9
87.5°	1.7	5.3	21.2	21.2	14.9	14.6	5.0	5.6	12.3	4.3	2.0
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°	655.4	655.4	655.4	655.4	655.4	655.4	655.4	655.4	655.4	655.4	655.4
2.5°	656.7	657.0	652.7	645.4	637.5	630.9	622.6	616.0	611.3	610.0	612.3
5°	661.4	659.0	646.8	624.6	598.1	575.2	549.7	529.5	516.2	510.6	512.6
7.5°	668.3	661.7	634.8	591.1	540.4	495.4	449.6	414.2	391.6	380.4	382.0
10°	674.3	661.0	615.0	542.7	465.2	396.9	335.3	292.6	268.7	257.5	257.8
12.5°	679.9	660.7	589.1	485.4	380.4	296.9	239.6	218.4	211.7	209.4	208.7
15°	690.5	661.7	556.7	419.8	295.9	224.3	203.4	203.1	204.4	203.8	203.4
17.5°	705.1	662.7	519.9	350.2	228.3	197.8	196.8	199.8	201.8	200.8	200.5
20°	724.0	666.7	480.8	281.3	196.2	191.2	193.5	196.2	197.8	196.2	195.8
22.5°	750.5	673.6	438.0	226.0	185.9	187.2	189.2	192.2	193.8	191.5	191.2
25°	783.0	684.5	396.0	196.5	180.9	182.6	185.6	188.9	190.9	188.5	188.2
27.5°	825.0	702.1	357.2	189.9	175.9	176.9	181.2	186.2	188.9	185.9	185.9
30°	886.0	730.9	323.7	192.8	173.0	170.6	176.6	183.6	186.5	183.9	183.6
32.5°	966.8	771.7	303.2	197.5	171.6	163.4	169.0	177.9	182.9	181.2	181.2
35°	1072.9	833.7	295.2	202.8	170.6	155.7	159.7	169.3	177.9	179.6	179.6
37.5°	1201.4	919.8	297.5	205.1	167.7	149.4	151.4	159.7	171.0	176.3	177.6
40°	1347.6	1020.2	310.8	202.8	164.3	144.1	144.5	150.8	160.7	168.7	171.3
42.5°	1498.3	1137.5	335.3	194.2	161.4	139.5	138.5	142.8	149.4	155.1	157.4
45°	1641.8	1258.1	359.5	182.2	157.7	134.9	132.5	134.2	135.5	137.8	139.2
47.5°	1767.0	1342.9	352.5	171.3	152.7	129.6	125.6	124.9	120.9	120.6	120.3
50°	1853.5	1361.5	313.1	160.4	145.5	123.6	117.3	113.3	106.4	103.0	103.4
52.5°	1881.0	1288.2	255.8	149.4	133.5	115.6	106.7	100.4	91.8	88.8	88.5
55°	1844.6	1144.8	204.4	136.2	117.0	105.0	95.1	86.8	79.9	76.2	76.2
57.5°	1755.4	962.2	161.7	120.6	99.4	93.1	83.2	74.9	68.9	65.3	64.6
60°	1607.7	764.1	127.9	102.1	84.8	80.2	69.9	64.6	59.3	55.0	54.0
62.5°	1383.3	545.4	100.4	80.8	70.9	65.6	59.6	55.7	49.4	43.4	42.4
65°	1079.5	333.7	77.5	59.3	57.0	54.3	50.7	47.1	39.4	33.5	32.5
67.5°	680.9	158.0	55.3	44.7	45.1	43.7	42.1	39.1	33.5	28.2	27.5
70°	299.9	76.5	36.4	34.1	33.5	33.5	34.8	33.8	28.5	23.5	22.5
72.5°	102.1	41.1	27.2	25.8	24.2	23.9	29.2	28.2	22.9	18.2	17.2
75°	53.3	27.5	19.9	18.6	14.6	17.6	23.2	21.9	16.2	11.9	10.9
77.5°	34.8	19.5	13.6	11.9	8.3	11.6	17.2	15.2	9.6	6.0	5.3
80°	21.9	12.9	8.0	5.6	4.0	6.3	9.3	6.6	3.6	1.3	1.0
82.5°	11.6	6.6	3.0	2.0	1.7	2.0	2.3	1.7	0.7	0.0	0.0
85°	4.6	2.3	1.0	0.7	0.3	0.0	0.7	0.3	0.0	0.0	0.0
87.5°	1.7	0.3	0.0	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)