

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: P961021

Luminaire Tested: **NAV-SB1D-830-U-RW**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P961021
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-19)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB1D-830-U-RW
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 80 CRI, 3000K, 900mA LIGHTSQUARE WITH 26 LEDS AND RECTANGULAR WIDE OPTICS
Light Source: -
Ballast/Driver: -

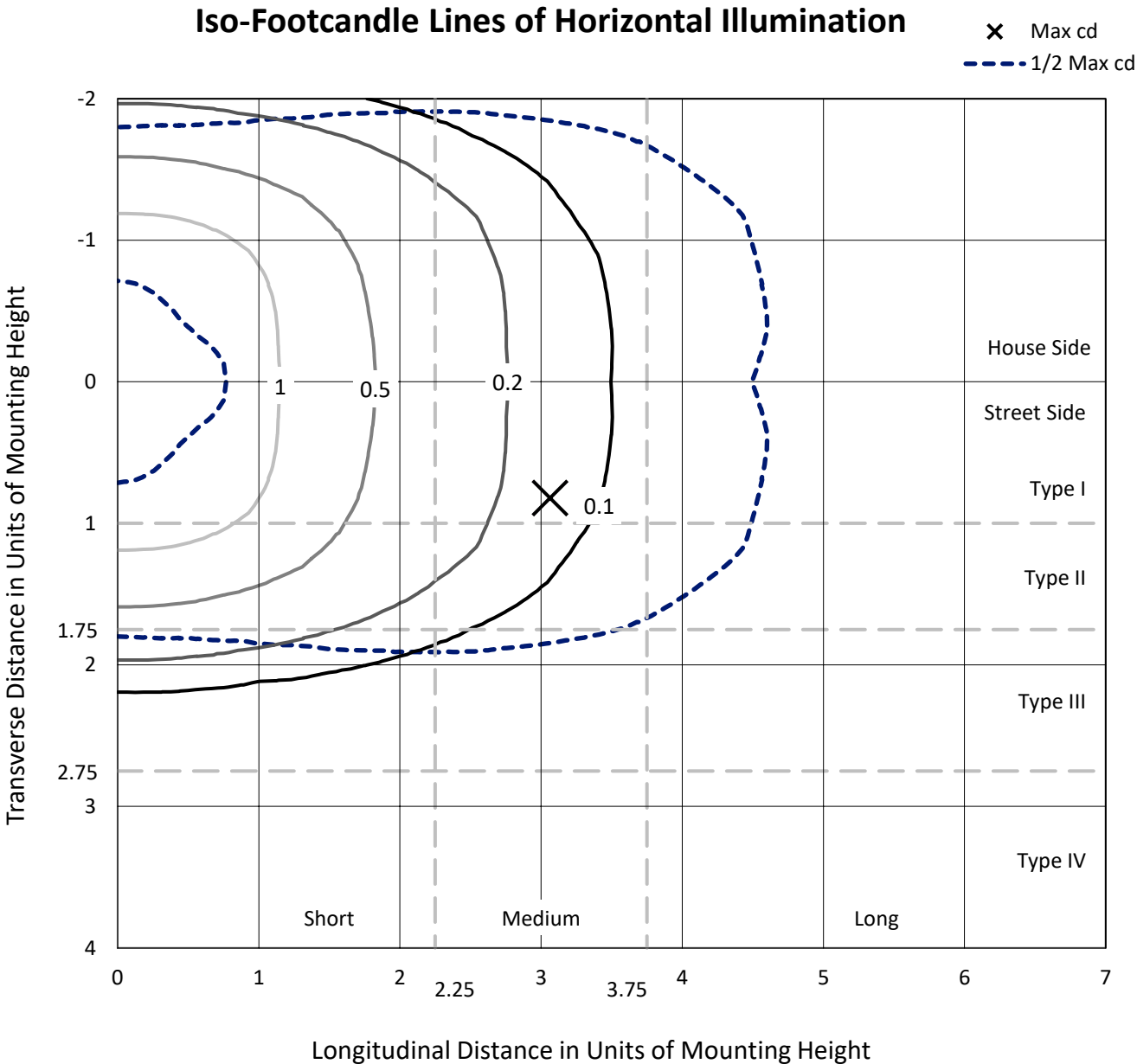
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9654.5 lumens
Efficiency: N/A
Efficacy: 121.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G3

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



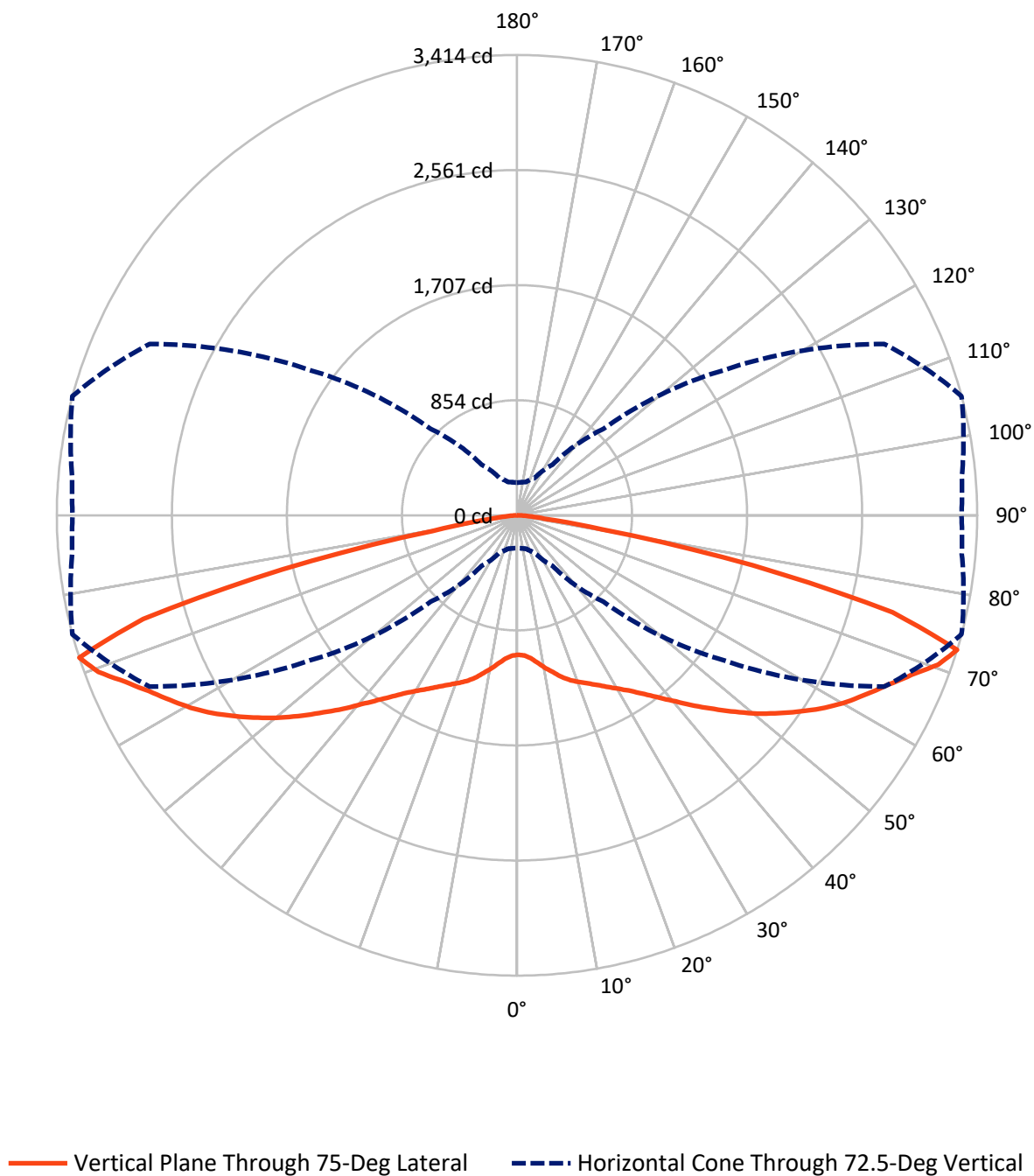
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Based on 25 foot mounting height. Maximum calculated value = 1.8 fc
Type III - Medium - N/A

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Luminous Intensity Polar Plot



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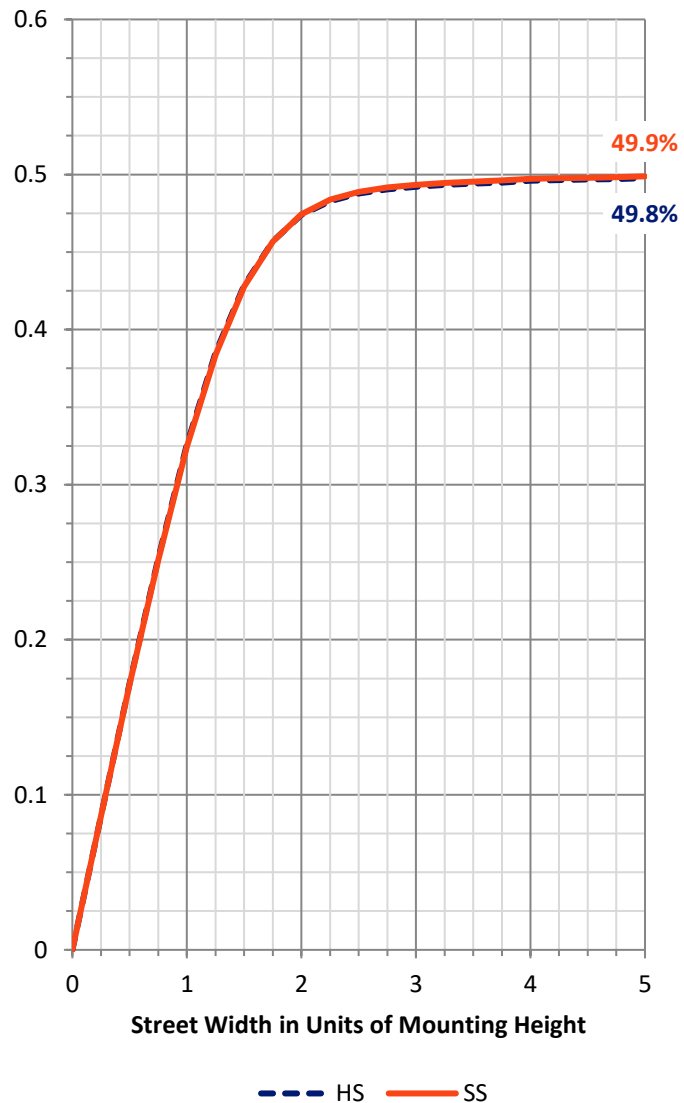
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4827.2	0.0	4827.2
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	4827.2	0.0	4827.2
	% Fixture	50.0	0.0	50.0
Total	Lumens	9654.5	0.0	9654.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	101.3	1.0
10°-20°	334.1	3.5
20°-30°	645.6	6.7
30°-40°	1090.2	11.3
40°-50°	1728.9	17.9
50°-60°	2314.8	24.0
60°-70°	2203.0	22.8
70°-80°	1149.5	11.9
80°-90°	87.0	0.9
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°	9654.5	100.0
0°-180°	9654.5	100.0

Coefficient of Utilization



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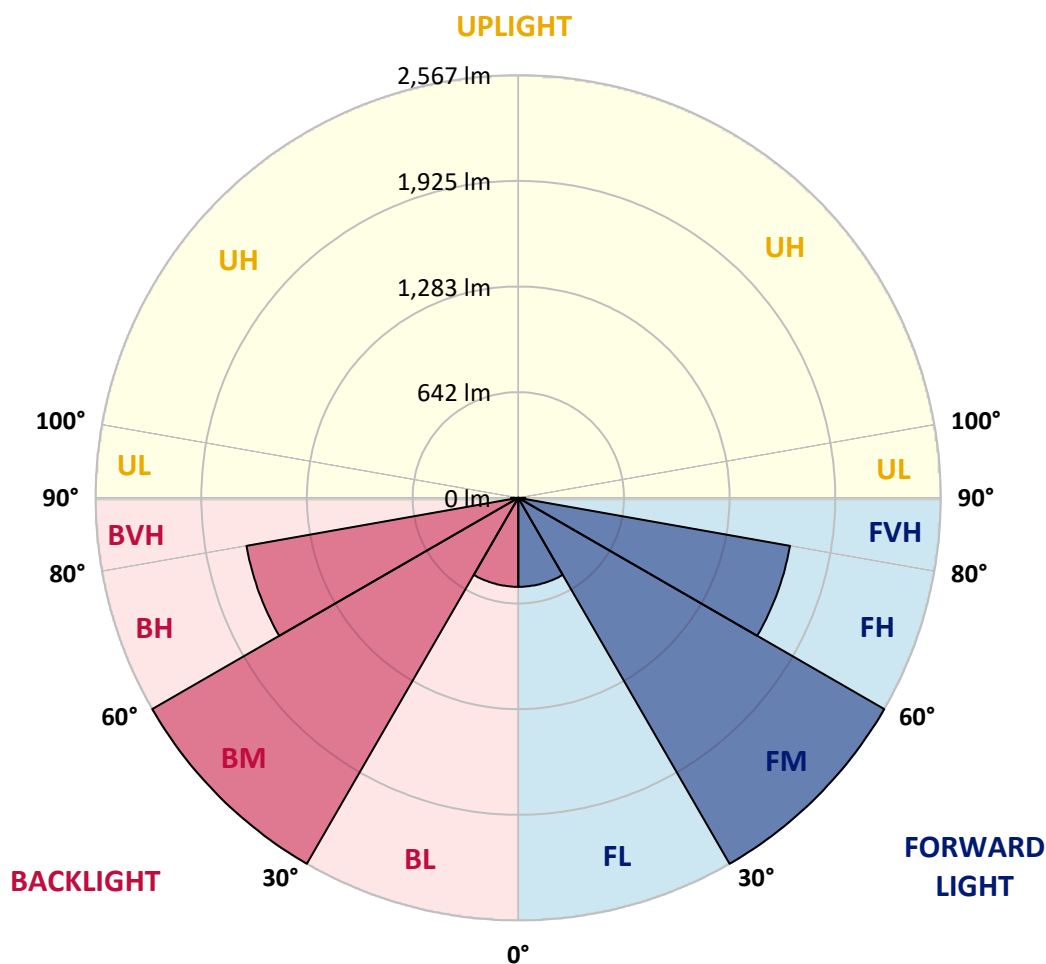
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	540.5	5.6			
FM	(30°-60°)	2566.9	26.6			
FH	(60°-80°)	1676.2	17.4			G1/1800
FVH	(80°-90°)	43.5	0.5			G1/100
BL	(0°-30°)	540.5	5.6	B2/1000		
BM	(30°-60°)	2566.9	26.6	B3/5000		
BH	(60°-80°)	1676.2	17.4	B3/2500		G3/2500
BVH	(80°-90°)	43.5	0.5			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1034.1	1034.1	1034.1	1034.1	1034.1	1034.1	1034.1	1034.1	1034.1	1034.1	1034.1
2.5°	1034.1	1033.2	1034.1	1035.1	1034.6	1034.6	1037.1	1038.6	1041.6	1041.1	1040.6
5°	1027.3	1026.7	1030.7	1035.1	1038.6	1044.5	1052.0	1057.3	1064.3	1065.7	1065.7
7.5°	1023.8	1022.3	1029.2	1037.1	1048.0	1062.7	1077.1	1091.8	1103.7	1107.6	1108.6
10°	1026.2	1026.7	1036.2	1050.9	1068.2	1088.9	1109.0	1134.3	1151.0	1155.0	1158.9
12.5°	1037.6	1036.6	1052.4	1076.0	1099.7	1125.9	1149.5	1177.1	1195.4	1204.7	1208.7
15°	1058.3	1056.4	1078.5	1113.6	1148.0	1178.5	1197.8	1224.0	1245.2	1257.0	1261.4
17.5°	1083.0	1083.9	1113.0	1158.4	1203.8	1238.2	1256.4	1269.8	1286.1	1296.4	1301.3
20°	1126.4	1128.3	1160.8	1214.6	1266.4	1305.7	1320.6	1315.6	1320.1	1328.0	1333.8
22.5°	1184.5	1185.5	1222.0	1280.1	1334.3	1377.7	1387.6	1367.4	1355.0	1360.5	1364.5
25°	1252.0	1258.5	1294.9	1354.5	1410.3	1451.7	1456.1	1425.6	1395.0	1396.5	1398.9
27.5°	1334.3	1340.3	1377.3	1436.4	1493.1	1529.1	1528.6	1487.7	1442.8	1431.5	1434.9
30°	1423.6	1430.0	1467.9	1529.1	1581.8	1613.4	1606.5	1557.7	1493.5	1472.4	1474.9
32.5°	1529.6	1533.5	1571.9	1633.0	1681.9	1707.0	1692.7	1632.6	1552.8	1528.6	1534.5
35°	1657.7	1663.7	1692.3	1749.9	1792.8	1813.5	1789.3	1718.3	1628.6	1601.6	1605.5
37.5°	1804.1	1800.2	1832.7	1884.0	1919.5	1932.3	1899.2	1815.0	1715.4	1683.4	1689.3
40°	1956.9	1955.0	1990.4	2039.7	2058.9	2066.8	2018.0	1925.9	1815.5	1780.9	1792.3
42.5°	2095.4	2094.0	2141.7	2196.5	2219.6	2210.8	2149.2	2043.6	1931.3	1891.8	1901.7
45°	2206.3	2204.4	2263.0	2340.0	2385.3	2370.5	2287.7	2173.8	2048.7	2007.7	2017.1
47.5°	2291.6	2292.6	2355.8	2450.9	2530.2	2535.6	2429.1	2306.5	2177.7	2131.4	2145.2
50°	2353.3	2356.2	2423.7	2529.2	2637.6	2685.5	2573.6	2442.5	2311.4	2259.1	2274.9
52.5°	2368.6	2373.9	2455.3	2579.0	2706.7	2797.8	2720.5	2573.1	2438.1	2388.2	2401.1
55°	2287.2	2298.0	2401.1	2575.1	2749.0	2871.8	2849.6	2705.7	2565.7	2514.4	2528.8
57.5°	2100.3	2115.7	2235.9	2463.2	2739.7	2922.6	2949.6	2832.9	2693.4	2644.1	2655.4
60°	1838.6	1856.9	1972.2	2220.1	2607.6	2941.3	3020.2	2956.6	2810.7	2762.9	2773.2
62.5°	1443.8	1467.5	1605.5	1896.4	2328.6	2854.1	3080.3	3068.4	2916.1	2856.6	2863.4
65°	926.2	951.4	1096.8	1440.3	1956.4	2586.9	3099.1	3177.4	3027.5	2944.3	2954.7
67.5°	558.5	569.8	641.8	873.0	1430.0	2184.2	2940.3	3298.2	3157.7	3054.2	3062.1
70°	357.4	363.8	406.6	512.6	808.4	1593.7	2546.9	3320.9	3315.5	3167.0	3166.1
72.5°	242.5	244.5	255.8	303.6	457.5	905.5	1878.5	3006.4	3414.1	3312.5	3296.7
75°	177.4	188.3	206.5	214.9	259.7	452.5	1076.6	2112.2	2877.3	2921.6	2814.1
77.5°	132.1	132.6	157.7	167.6	185.3	241.1	455.5	1179.1	1786.4	1875.6	1673.0
80°	111.9	106.0	105.5	135.1	139.5	150.4	203.6	407.1	639.8	388.0	293.3
82.5°	93.2	86.7	78.4	105.5	95.1	92.1	88.3	165.6	203.6	100.0	85.3
85°	65.1	62.1	59.1	69.0	54.2	46.3	42.4	77.4	85.8	42.4	37.4
87.5°	28.1	29.1	29.6	30.5	22.7	16.3	16.3	21.7	21.7	16.8	12.3
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)