

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: P881877

Luminaire Tested: **NAV-SB1C-727-U-T2**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P881877
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-3)
Test Lab: INNOVATION CENTER
Issue Date: 10/7/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB1C-727-U-T2
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 2700K, 615mA LIGHTSQUARE WITH 26 LEDS AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6731 lumens
Efficiency: N/A
Efficacy: 123.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G2

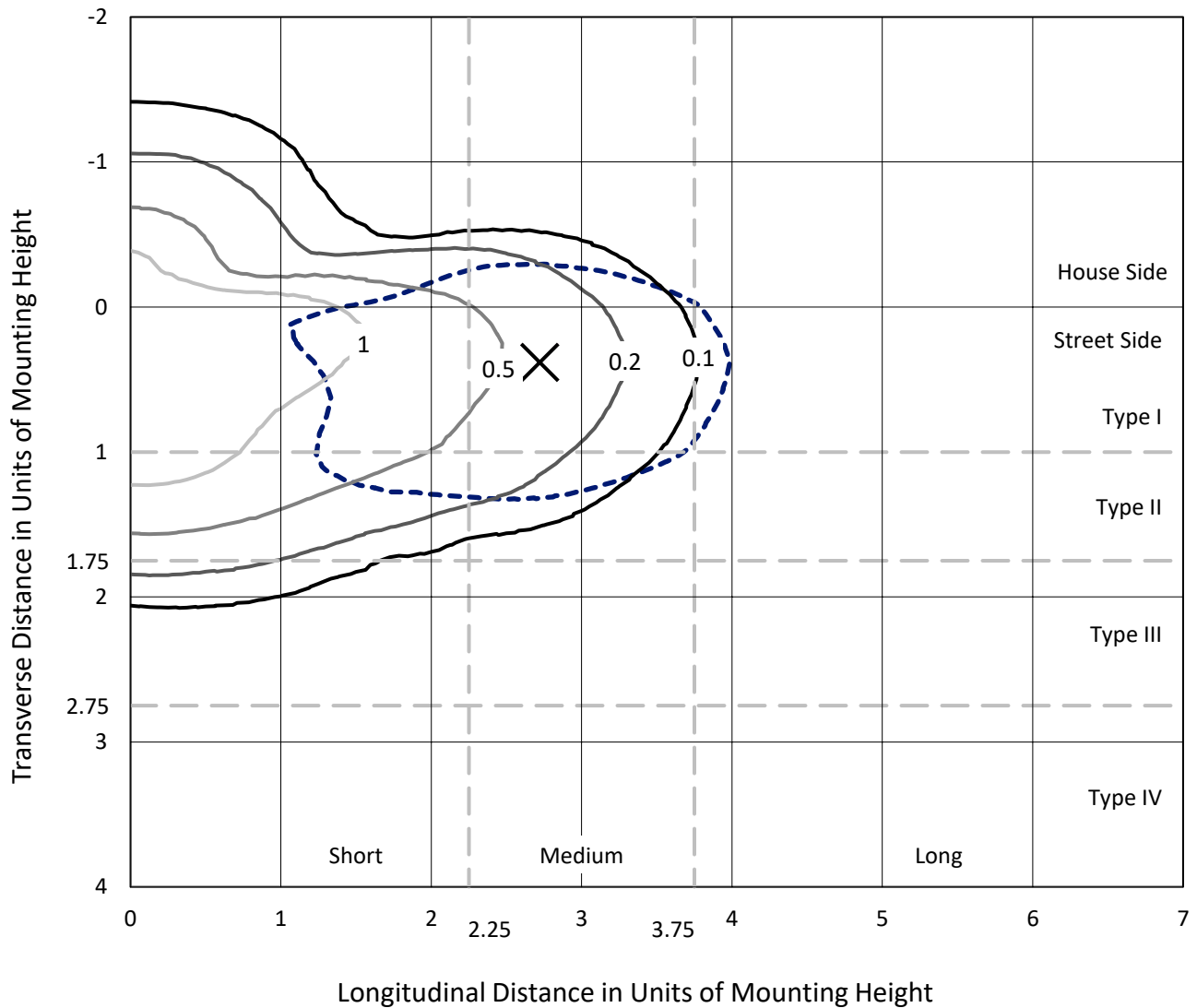
Input Watts (W): 54.4
Input Voltage (V): 120.0
Input Current (Ain): 0.437
Voltage Rise (V): NR
Power Factor: 0.993
Total Harmonic Distortion (THDi): 9.314
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

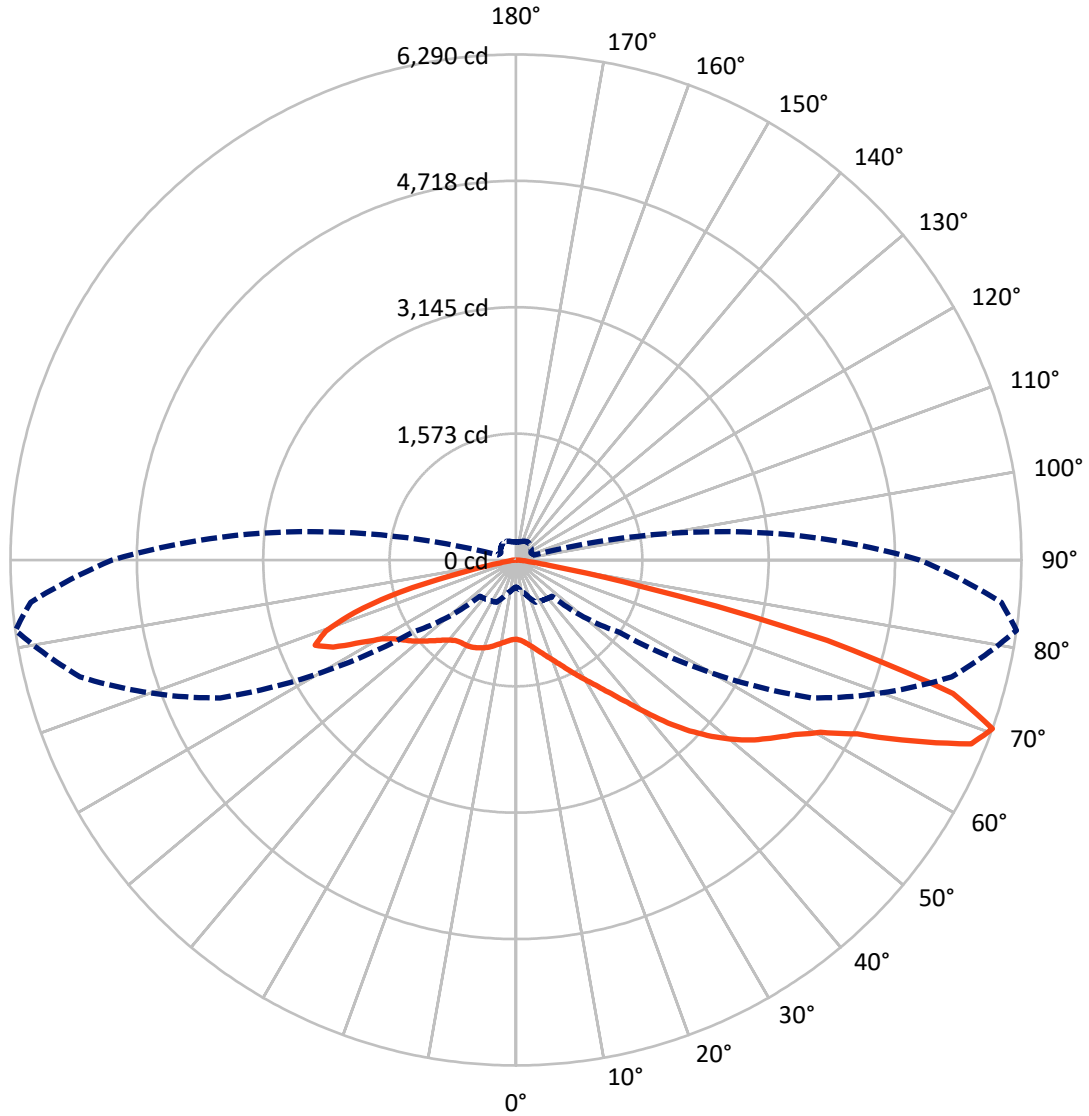
✕ Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 82-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1659.4	0.0	1659.4
	% Fixture	24.7	0.0	24.7
Street Side	Lumens	5071.6	0.0	5071.6
	% Fixture	75.3	0.0	75.3
Total	Lumens	6731.0	0.0	6731.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	93.2	1.4
10°-20°	267.7	4.0
20°-30°	447.8	6.7
30°-40°	699.6	10.4
40°-50°	1114.2	16.6
50°-60°	1550.6	23.0
60°-70°	1622.0	24.1
70°-80°	847.7	12.6
80°-90°	88.0	1.3
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°	6731.0	100.0
0°-180°	6731.0	100.0

Coefficient of Utilization

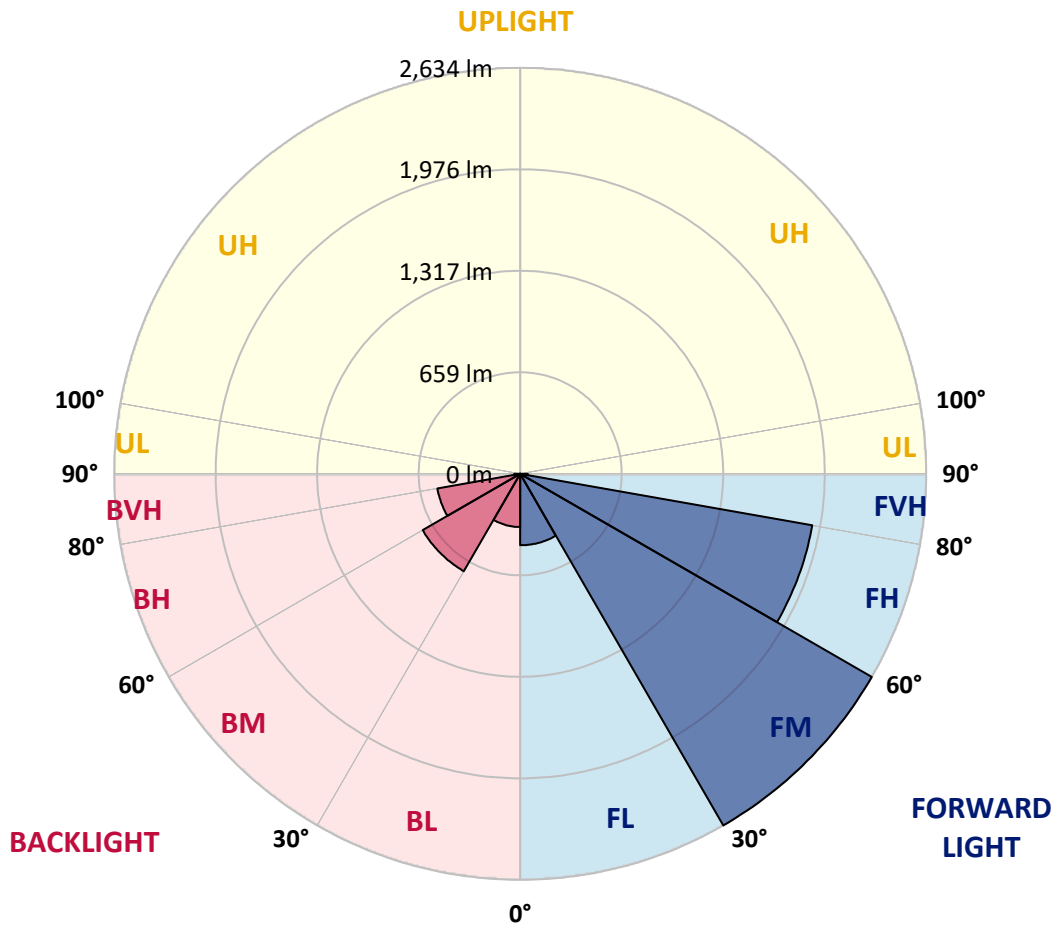


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	463.5	6.9			
FM (30°-60°)	2634.4	39.1			
FH (60°-80°)	1924.4	28.6			G2/5000
FVH (80°-90°)	49.3	0.7			G1/100
BL (0°-30°)	345.2	5.1	B1/500		
BM (30°-60°)	730.0	10.8	B1/1000		
BH (60°-80°)	545.3	8.1	B2/1000		G2/1000
BVH (80°-90°)	38.8	0.6			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2
 Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°	85°
0°	986.8	986.8	986.8	986.8	986.8	986.8	986.8	986.8	986.8	986.8	986.8
2.5°	1010.4	1016.1	1014.4	1012.6	1012.6	1010.1	1009.7	1006.1	1003.3	998.6	997.6
5°	1023.3	1029.4	1028.6	1030.1	1034.7	1035.8	1036.9	1034.7	1029.0	1023.3	1020.8
7.5°	1011.9	1018.6	1020.8	1029.4	1043.6	1056.5	1066.1	1070.1	1064.7	1056.5	1052.6
10°	973.3	980.8	988.3	1008.6	1034.0	1064.4	1090.1	1105.4	1104.4	1096.5	1089.7
12.5°	895.1	902.9	919.0	958.6	1005.1	1058.6	1106.5	1138.6	1149.7	1144.0	1132.2
15°	832.6	839.3	851.5	892.2	952.6	1034.0	1112.6	1175.1	1203.3	1200.1	1185.8
17.5°	830.8	833.6	841.1	860.4	906.8	995.4	1106.1	1210.8	1264.7	1264.4	1246.5
20°	862.2	863.3	867.6	871.5	897.9	966.1	1089.7	1240.4	1333.7	1333.7	1314.4
22.5°	905.8	905.1	909.3	905.8	918.6	963.6	1079.4	1266.5	1410.4	1416.2	1391.9
25°	971.1	967.6	966.5	958.3	960.8	986.8	1090.8	1296.2	1501.5	1513.3	1483.0
27.5°	1058.3	1052.6	1048.6	1029.7	1023.3	1034.7	1125.8	1331.9	1603.0	1623.3	1584.7
30°	1171.9	1161.5	1155.8	1122.9	1099.7	1101.5	1178.6	1379.4	1709.0	1741.9	1693.0
32.5°	1326.9	1310.8	1295.4	1241.5	1199.0	1185.1	1246.9	1445.1	1824.0	1876.5	1813.7
35°	1500.5	1487.6	1471.2	1387.9	1322.6	1290.4	1339.0	1536.9	1958.7	2041.9	1960.1
37.5°	1667.6	1656.5	1664.4	1552.2	1468.0	1421.2	1459.7	1660.1	2124.8	2247.6	2143.7
40°	1840.5	1831.9	1833.0	1725.8	1627.6	1575.1	1606.2	1814.8	2315.1	2492.3	2364.4
42.5°	2028.3	2021.9	2000.5	1905.5	1795.1	1746.2	1774.8	1993.3	2519.4	2770.9	2606.6
45°	2238.7	2234.8	2214.8	2105.8	1979.4	1924.4	1963.0	2190.5	2724.8	3033.1	2849.8
47.5°	2420.5	2423.7	2421.2	2329.4	2198.4	2117.6	2163.7	2396.2	2915.9	3279.5	3083.1
50°	2508.0	2524.8	2549.4	2520.9	2439.4	2357.3	2366.2	2594.8	3098.1	3510.6	3306.6
52.5°	2462.3	2494.1	2561.2	2607.0	2638.4	2621.2	2597.3	2792.0	3269.5	3719.2	3518.1
55°	2291.9	2336.6	2448.0	2558.4	2718.7	2843.4	2874.8	3010.5	3436.6	3902.7	3718.1
57.5°	1981.6	2054.1	2154.1	2377.3	2647.3	2950.9	3198.4	3313.8	3613.8	4098.8	3927.4
60°	1449.4	1546.5	1670.8	2003.0	2397.3	2893.4	3473.8	3779.5	3865.6	4352.8	4199.9
62.5°	927.6	987.6	1101.9	1414.7	1868.0	2598.7	3558.1	4361.7	4292.4	4769.2	4608.5
65°	635.0	673.6	778.3	954.0	1207.6	1934.4	3332.4	4798.2	4970.3	5429.3	5307.1
67.5°	461.5	490.7	580.0	734.0	786.8	1144.7	2585.9	4778.2	5629.3	6109.3	5919.3
70°	336.5	357.2	432.2	580.0	605.4	636.8	1566.5	4061.7	5615.0	6290.0	6062.5
72.5°	249.3	263.6	313.9	450.0	490.0	430.0	775.4	2952.0	4825.0	5689.3	5506.8
75°	180.4	191.1	228.2	344.3	392.2	327.5	386.8	1725.1	3365.6	4002.0	4034.2
77.5°	137.9	146.1	170.4	252.2	313.9	245.7	240.0	793.6	1595.8	1603.7	1693.7
80°	110.7	116.1	129.3	177.5	240.7	183.9	156.4	320.4	504.3	426.8	447.9
82.5°	81.4	90.4	109.3	124.7	172.2	126.8	95.4	161.8	191.8	165.0	166.4
85°	46.4	52.5	66.1	89.3	110.0	77.5	54.6	71.8	89.3	73.2	65.4
87.5°	16.4	21.4	23.2	35.0	47.9	32.1	21.1	20.7	29.3	21.8	18.2
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°	986.8	986.8	986.8	986.8	986.8	986.8	986.8	986.8	986.8	986.8	986.8
2.5°	994.0	992.2	985.1	975.4	965.4	955.8	952.6	945.8	941.1	938.6	941.5
5°	1014.0	1008.3	991.5	970.1	947.6	923.3	906.1	890.4	879.0	868.3	872.6
7.5°	1042.6	1032.6	1003.6	966.1	926.1	885.8	855.8	832.9	817.6	807.6	809.7
10°	1075.8	1060.4	1016.1	960.1	898.3	840.4	805.1	785.4	775.8	770.4	771.8
12.5°	1114.0	1092.2	1029.0	946.1	855.8	789.7	765.4	759.7	760.0	760.4	761.1
15°	1161.1	1130.8	1039.4	915.8	800.4	750.8	746.5	755.8	765.4	770.0	769.7
17.5°	1214.4	1171.5	1041.1	865.8	746.1	725.8	739.3	759.3	774.0	780.4	781.8
20°	1271.5	1212.9	1028.3	795.1	701.5	705.4	729.7	755.4	771.5	779.7	781.8
22.5°	1336.9	1257.2	997.6	720.8	665.0	683.3	711.8	736.8	753.6	761.8	764.0
25°	1411.5	1306.9	949.3	658.3	633.6	658.3	686.8	707.5	721.1	728.6	730.8
27.5°	1494.4	1358.7	885.1	608.6	606.1	632.5	656.1	672.2	679.3	685.0	687.2
30°	1577.6	1405.8	807.2	571.1	582.2	607.2	624.0	631.1	633.3	634.3	636.8
32.5°	1667.6	1446.5	725.4	540.0	559.3	582.5	592.5	595.8	585.8	579.0	581.1
35°	1776.5	1490.1	645.4	515.4	536.8	556.8	560.0	557.2	545.4	531.5	532.2
37.5°	1911.2	1544.4	581.5	497.9	515.7	529.0	525.0	524.3	525.4	509.0	510.0
40°	2076.2	1615.1	534.7	484.3	498.6	501.5	490.4	496.5	501.8	476.8	477.5
42.5°	2259.4	1700.5	505.0	475.0	484.3	477.5	460.4	467.2	466.5	433.6	433.2
45°	2446.2	1793.3	494.7	468.2	471.1	457.5	438.6	440.4	425.4	395.7	396.8
47.5°	2632.0	1893.0	501.1	462.5	454.7	439.3	424.7	416.8	394.7	372.5	372.5
50°	2814.1	1997.6	524.7	451.1	432.2	423.2	412.5	398.6	375.0	356.1	354.7
52.5°	2983.0	2103.0	551.1	432.2	404.0	409.3	402.5	386.5	363.2	344.0	344.3
55°	3143.1	2208.4	561.5	406.1	377.5	397.2	393.2	363.6	335.7	320.0	318.6
57.5°	3317.4	2335.1	550.0	372.9	356.1	383.2	368.2	335.4	319.3	307.5	306.4
60°	3558.8	2534.1	525.4	331.8	335.7	362.5	336.8	323.2	305.7	292.5	291.8
62.5°	3959.9	2905.2	485.7	291.1	311.8	331.8	321.8	308.2	290.4	277.5	277.5
65°	4552.8	3420.9	411.1	259.3	285.0	301.8	305.7	292.2	273.6	260.0	260.7
67.5°	5052.8	3744.5	311.1	232.9	257.5	277.5	288.6	275.4	255.7	242.5	242.9
70°	5025.3	3509.5	237.5	206.8	233.2	253.6	267.9	257.5	236.4	223.9	225.0
72.5°	4463.5	2935.9	192.2	180.4	208.6	228.6	245.7	237.9	216.4	204.3	204.3
75°	3279.1	2084.1	153.6	153.6	177.9	202.5	221.4	216.4	196.8	188.2	185.7
77.5°	1382.2	874.3	120.4	127.5	147.9	173.9	197.5	199.3	182.2	192.9	175.0
80°	367.5	241.1	91.8	100.4	116.1	143.6	171.8	171.1	152.5	142.5	132.5
82.5°	140.0	95.0	65.4	70.7	83.9	110.0	136.1	140.4	121.8	105.4	105.4
85°	53.9	40.7	40.4	42.5	48.9	72.9	102.9	106.4	91.8	77.9	80.4
87.5°	13.9	12.1	15.0	14.3	22.5	38.9	58.9	61.1	56.1	32.5	46.4
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)