

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: P881961

Luminaire Tested: **NAV-SB1C-835-U-T4FT**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P881961
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-24)
Test Lab: INNOVATION CENTER
Issue Date: 10/7/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB1C-835-U-T4FT
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 80 CRI, 3500K, 615mA LIGHTSQUARE WITH 26 LEDS AND TYPE IV FORWARD
THROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6251 lumens
Efficiency: N/A
Efficacy: 114.9 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

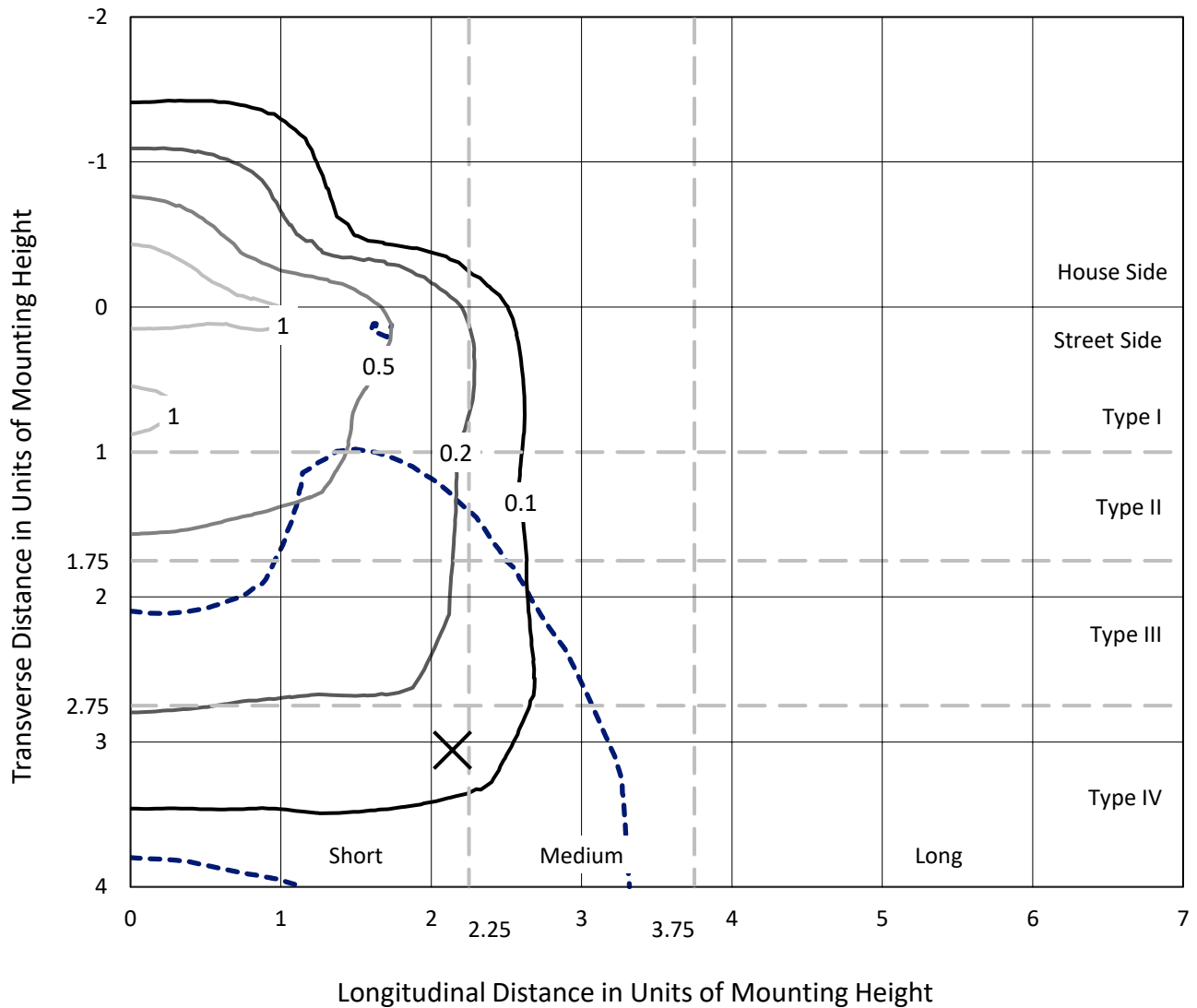
Input Watts (W): 54.4
Input Voltage (V): 120.0
Input Current (Ain): 0.437
Voltage Rise (V): NR
Power Factor: 0.993
Total Harmonic Distortion (THDi): 9.314
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

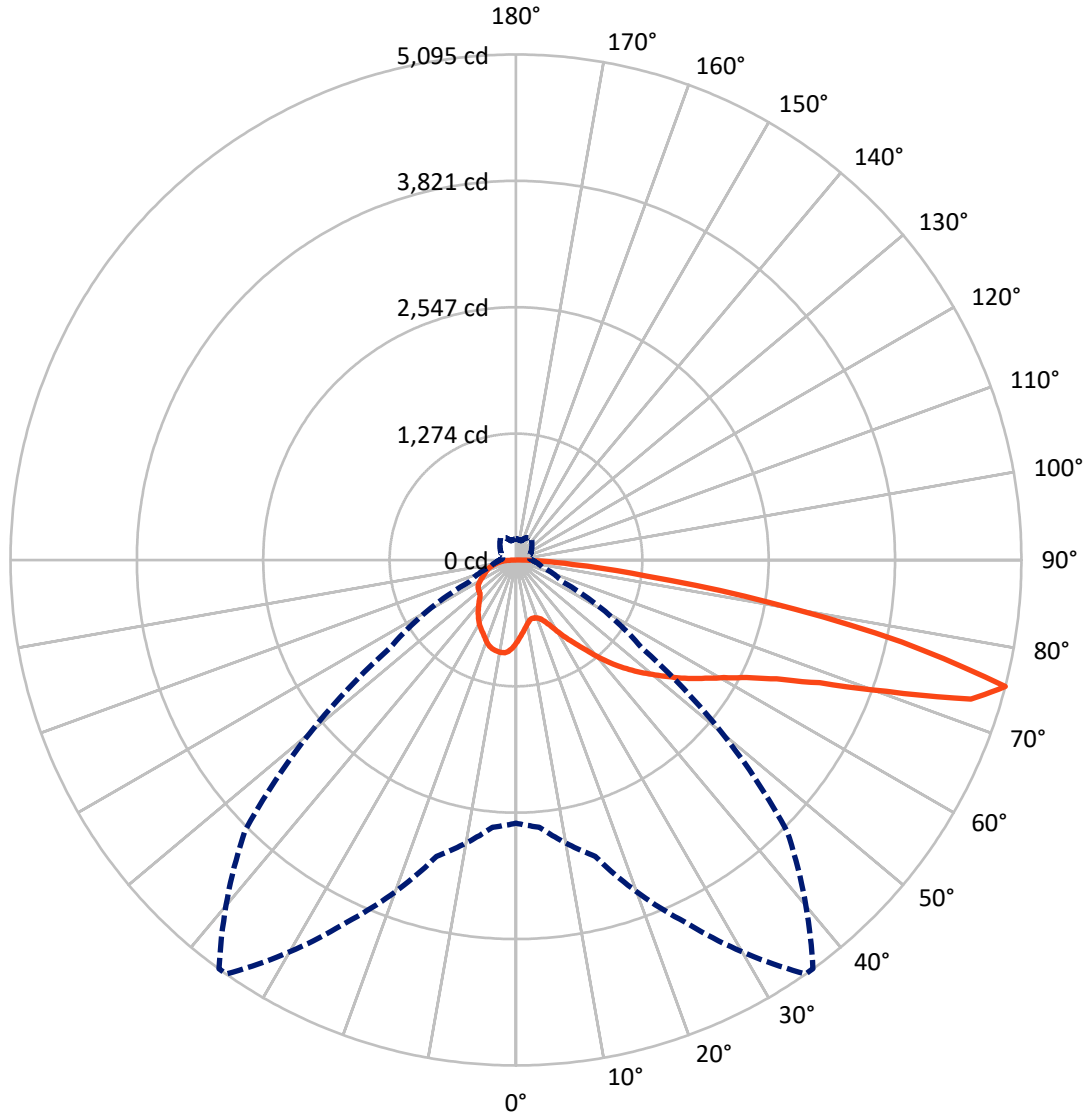
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.5 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1487.6	0.0	1487.6
	% Fixture	23.8	0.0	23.8
Street Side	Lumens	4763.4	0.0	4763.4
	% Fixture	76.2	0.0	76.2
Total	Lumens	6251.0	0.0	6251.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	78.9	1.3
10°-20°	227.5	3.6
20°-30°	382.0	6.1
30°-40°	593.7	9.5
40°-50°	881.2	14.1
50°-60°	1216.6	19.5
60°-70°	1476.0	23.6
70°-80°	1219.8	19.5
80°-90°	175.4	2.8
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°	6251.0	100.0
0°-180°	6251.0	100.0

Coefficient of Utilization



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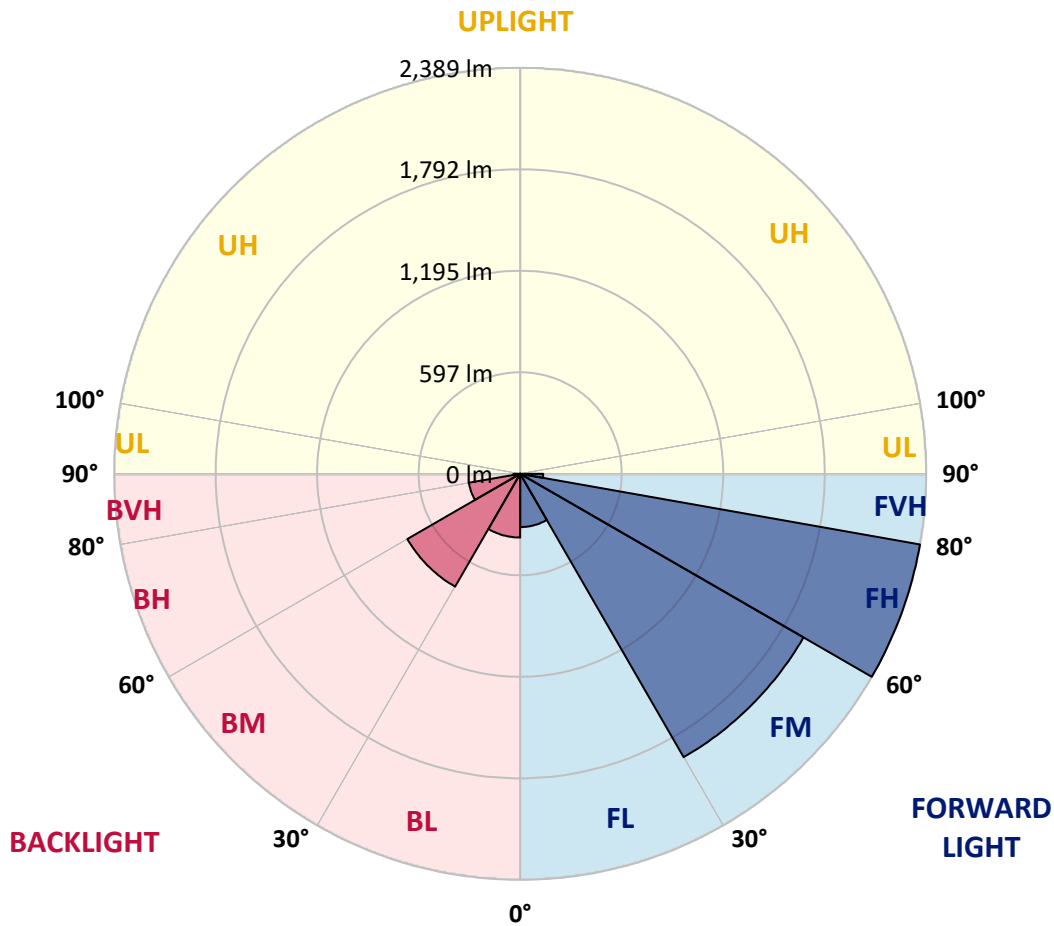
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	313.5	5.0			
FM (30°-60°)	1925.0	30.8			
FH (60°-80°)	2389.0	38.2			G2/5000
FVH (80°-90°)	135.9	2.2			G2/225
BL (0°-30°)	374.9	6.0	B1/500		
BM (30°-60°)	766.5	12.3	B1/1000		
BH (60°-80°)	306.7	4.9	B1/500		G1/500
BVH (80°-90°)	39.5	0.6			G1/100
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°	35°	36°	45°	55°	65°	75°	85°
0°	833.0	833.0	833.0	833.0	833.0	833.0	833.0	833.0	833.0	833.0	833.0
2.5°	768.1	772.8	774.9	773.9	778.9	778.2	785.3	794.1	806.3	818.1	835.4
5°	709.0	714.0	718.4	722.5	732.3	735.3	746.5	763.4	785.7	808.3	836.7
7.5°	653.9	658.3	665.0	672.5	689.0	692.1	710.7	737.0	768.1	801.2	840.4
10°	608.9	613.3	620.4	628.9	649.5	653.2	676.9	712.0	752.6	794.5	844.5
12.5°	589.7	591.0	595.1	603.5	621.4	623.8	649.8	690.0	737.4	789.4	850.6
15°	588.7	591.4	591.7	596.1	611.0	612.0	636.0	675.9	727.9	788.4	859.7
17.5°	598.8	600.8	597.8	600.5	613.0	614.7	633.6	669.1	724.9	792.8	875.2
20°	625.8	627.5	618.4	614.7	623.8	625.2	643.7	673.5	727.9	801.9	896.5
22.5°	683.3	684.3	662.0	646.8	647.5	648.1	664.4	691.4	739.7	818.5	923.6
25°	772.8	772.2	736.7	707.3	690.4	686.7	697.5	720.5	759.7	840.4	958.4
27.5°	877.6	872.5	837.0	793.1	756.3	750.9	748.5	758.3	788.0	869.5	1000.9
30°	995.9	991.1	953.0	895.5	844.5	835.7	813.4	808.3	830.3	909.0	1060.1
32.5°	1125.6	1122.6	1077.0	1007.4	939.1	929.0	891.4	877.9	895.2	968.8	1142.5
35°	1234.4	1231.7	1193.9	1122.3	1038.8	1026.3	988.1	972.9	981.7	1045.5	1250.3
37.5°	1332.8	1331.4	1299.0	1242.6	1156.4	1141.2	1098.3	1093.2	1091.5	1146.6	1381.1
40°	1424.0	1420.6	1386.8	1357.1	1293.2	1279.4	1241.5	1237.1	1224.3	1270.9	1529.1
42.5°	1525.1	1516.3	1467.3	1453.4	1436.2	1424.7	1402.1	1402.7	1374.3	1411.2	1685.9
45°	1607.5	1602.4	1552.1	1544.0	1562.6	1557.8	1577.4	1582.5	1527.4	1558.2	1848.8
47.5°	1696.1	1691.3	1648.7	1643.0	1693.3	1694.7	1764.0	1765.7	1676.8	1710.9	2012.0
50°	1805.2	1798.4	1756.2	1763.3	1819.7	1824.8	1951.5	1940.0	1814.3	1866.0	2173.9
52.5°	1877.2	1881.2	1872.1	1883.6	1960.6	1965.4	2136.0	2106.6	1950.5	2019.1	2332.7
55°	1930.2	1938.3	1966.7	1993.1	2109.3	2114.1	2310.1	2265.1	2063.4	2161.0	2482.1
57.5°	1998.5	1987.0	2040.1	2091.4	2250.6	2263.1	2479.4	2417.9	2163.4	2283.4	2584.5
60°	2096.5	2088.4	2129.6	2205.6	2408.7	2428.7	2658.5	2555.4	2236.7	2380.4	2604.4
62.5°	2295.2	2274.9	2281.3	2348.6	2608.1	2634.5	2860.5	2675.4	2273.2	2418.2	2497.6
65°	2592.2	2557.4	2525.0	2571.6	2888.9	2915.0	3088.6	2769.6	2259.7	2344.9	2214.1
67.5°	2966.3	2931.8	2892.0	2935.9	3302.6	3323.2	3370.1	2822.7	2153.3	2062.4	1712.9
70°	3274.8	3262.0	3309.6	3490.4	3963.2	3963.9	3731.0	2778.8	1861.6	1462.2	991.1
72.5°	3234.0	3226.2	3477.3	4036.2	4795.8	4777.9	4072.7	2446.2	1254.0	659.6	371.4
75°	2653.1	2703.4	3092.4	4026.4	5094.9	5092.5	3863.5	1555.1	518.7	273.4	191.9
77.5°	1422.7	1502.4	2007.6	2972.7	3977.4	4037.2	2716.3	544.1	222.7	175.0	132.8
80°	464.0	533.6	800.2	1513.6	2584.5	2573.3	1164.2	213.6	152.4	124.0	91.9
82.5°	197.0	205.1	357.5	714.7	1326.4	1305.7	370.7	122.7	107.1	84.8	56.8
85°	77.0	86.2	157.8	330.5	574.5	562.0	133.8	60.8	68.6	55.4	33.8
87.5°	25.3	30.8	56.4	113.2	178.8	172.3	32.8	21.0	29.7	25.3	12.2
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°	833.0	833.0	833.0	833.0	833.0	833.0	833.0	833.0	833.0	833.0	833.0
2.5°	840.1	845.5	851.9	861.4	869.5	876.2	883.3	887.7	889.4	894.5	894.2
5°	846.2	858.0	873.9	889.4	904.6	913.8	921.9	925.9	929.6	932.3	933.0
7.5°	856.3	871.5	896.5	916.8	929.6	937.1	942.5	941.1	942.5	943.2	944.2
10°	865.1	886.4	916.1	935.4	945.2	945.5	944.2	939.4	937.1	937.4	938.1
12.5°	875.6	899.2	931.3	947.5	950.2	942.8	937.1	929.0	925.9	924.6	923.9
15°	889.8	916.8	947.9	954.0	947.2	937.7	927.9	914.8	908.0	902.6	904.3
17.5°	907.0	936.7	960.7	956.3	941.8	926.3	910.4	890.4	876.6	870.8	871.2
20°	931.0	957.7	970.5	951.3	929.3	905.6	878.6	854.3	841.4	835.7	835.0
22.5°	960.0	985.7	980.0	942.5	911.4	873.5	839.7	821.8	815.4	811.4	812.0
25°	994.9	1016.8	986.7	929.6	882.0	831.0	804.9	799.2	796.2	793.1	793.1
27.5°	1040.1	1052.0	991.8	910.7	836.0	785.7	776.2	777.2	776.2	771.1	772.2
30°	1099.9	1097.6	996.5	880.0	783.3	744.8	745.5	749.9	750.5	747.2	748.8
32.5°	1178.7	1154.7	998.9	840.1	733.0	709.0	709.6	714.4	717.8	712.0	714.7
35°	1274.0	1221.3	995.2	790.1	694.1	674.8	669.8	671.1	672.1	666.7	670.4
37.5°	1385.2	1295.9	978.6	734.7	662.0	641.4	630.6	621.4	616.0	611.0	614.3
40°	1507.2	1377.4	948.2	680.6	626.2	605.9	589.7	572.4	554.2	547.4	550.5
42.5°	1634.9	1461.2	911.4	628.9	585.0	568.4	551.2	526.2	498.8	484.9	486.6
45°	1767.4	1547.0	875.2	577.9	542.7	535.6	515.7	485.6	455.9	438.3	436.9
47.5°	1897.1	1628.1	822.2	526.5	503.2	510.9	495.4	467.7	434.6	406.9	403.8
50°	2021.1	1704.2	735.3	474.4	471.1	503.5	488.6	448.8	410.9	375.4	372.4
52.5°	2144.1	1765.7	624.1	427.1	453.8	501.5	479.9	435.9	389.6	352.5	348.4
55°	2248.6	1797.4	517.0	386.6	428.8	484.2	469.4	420.7	359.6	320.0	316.6
57.5°	2308.0	1771.7	427.8	346.7	394.4	455.9	451.5	388.3	323.7	293.3	289.3
60°	2282.4	1667.7	354.8	311.9	361.6	425.1	420.4	356.2	296.4	267.6	263.6
62.5°	2140.8	1469.3	297.0	281.5	331.8	393.7	389.3	331.5	275.4	247.7	243.3
65°	1855.6	1195.2	252.1	256.1	301.8	355.8	362.3	310.9	258.9	231.8	227.4
67.5°	1415.2	865.8	216.9	234.2	272.4	318.7	337.3	296.0	245.0	219.3	215.3
70°	806.6	491.7	187.2	212.9	246.3	284.2	318.0	284.2	230.1	208.8	206.1
72.5°	305.8	225.7	161.9	191.6	221.3	255.1	296.7	265.6	212.9	197.0	194.3
75°	163.2	137.5	136.2	166.6	192.6	226.7	270.0	247.4	200.1	208.2	214.9
77.5°	111.2	97.3	113.9	142.6	161.2	195.3	241.6	219.7	173.4	172.7	159.2
80°	77.0	68.9	92.6	114.9	124.7	164.2	210.9	188.6	141.3	131.8	126.0
82.5°	46.3	44.9	69.3	85.8	88.2	126.7	174.7	158.1	115.6	100.7	101.4
85°	25.3	26.7	44.3	50.4	51.4	88.5	136.9	122.3	88.9	74.7	75.4
87.5°	7.1	9.1	16.2	19.9	24.7	46.0	81.4	72.7	44.6	31.1	31.1
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)