

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: P881891

Luminaire Tested: **NAV-SB1C-730-U-T4FT**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P881891
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-730-U-T4FT
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 3000K, 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: 7293 lumens
Efficiency: N/A
Efficacy: 134.1 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

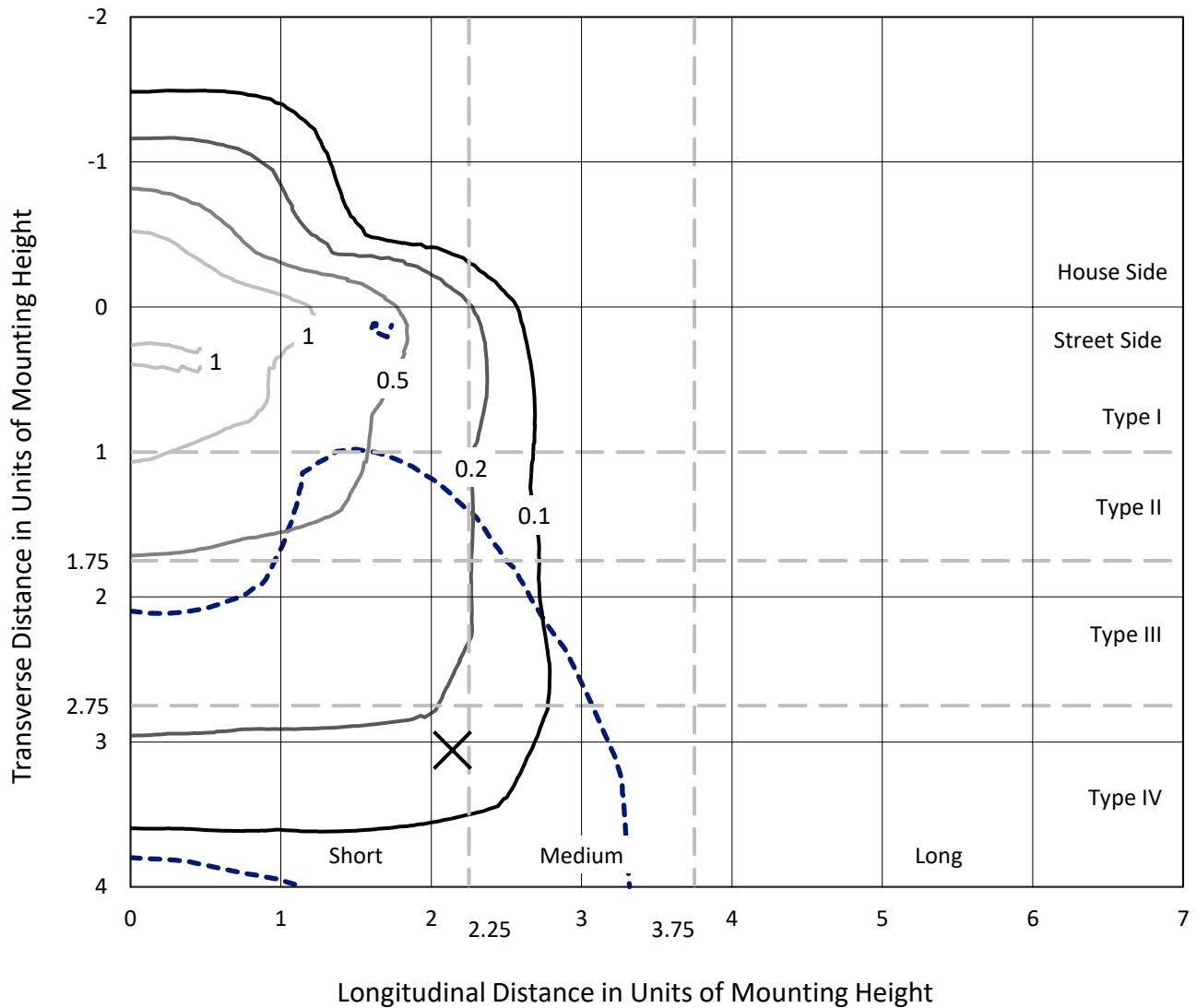
Input Watts (W): 54.4
Input Voltage (V): 120.0
Input Current (Ain): 0.437
Voltage Rise (V): NR
Power Factor: 0.993
Total Harmonic Distortion (THDi): 9.314
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

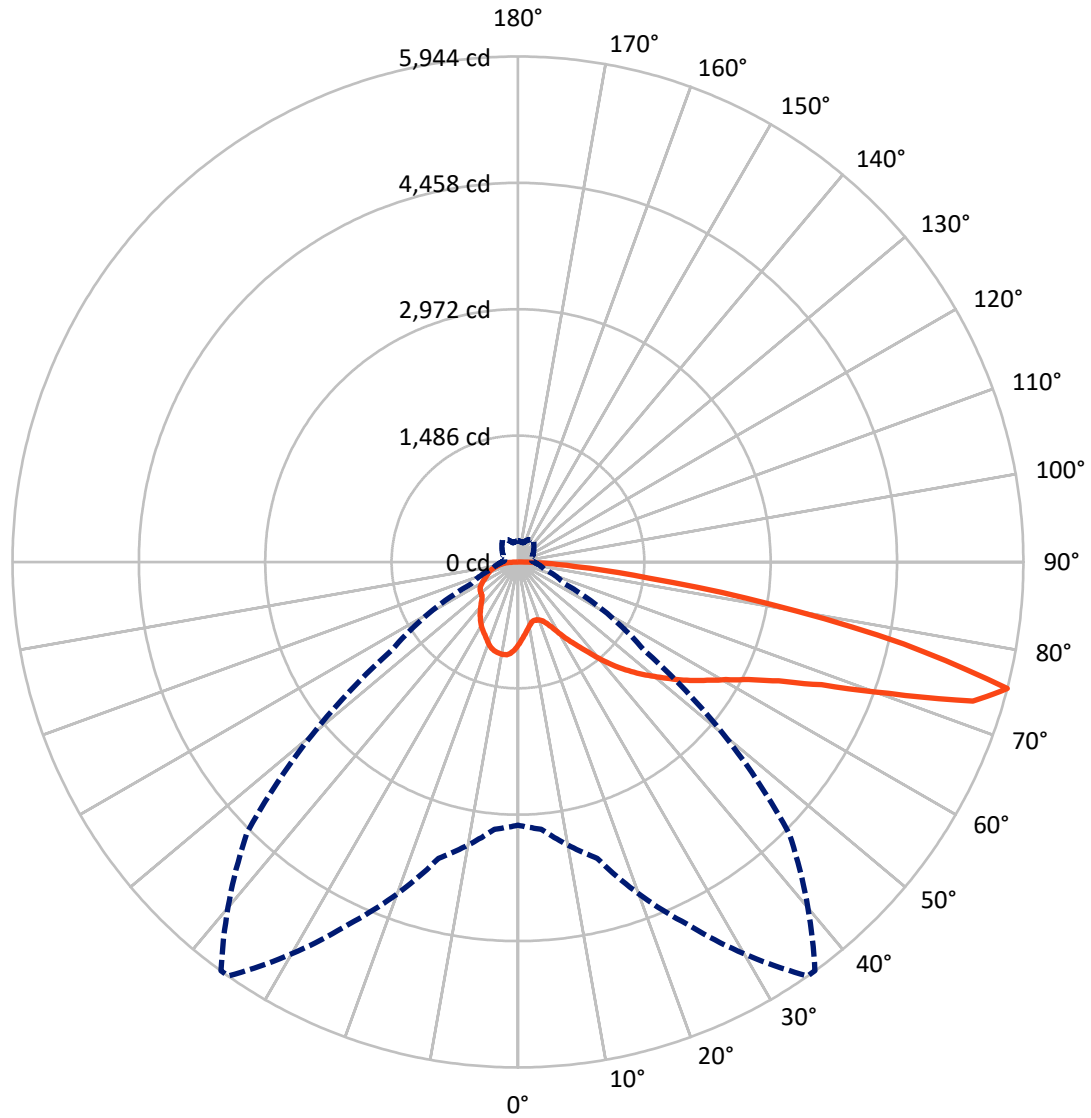
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.7 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	1735.6	0.0	1735.6
	% Fixture	23.8	0.0	23.8
Street Side	Lumens	5557.5	0.0	5557.5
	% Fixture	76.2	0.0	76.2
Total	Lumens	7293.0	0.0	7293.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	92.0	1.3
10°-20°	265.4	3.6
20°-30°	445.7	6.1
30°-40°	692.7	9.5
40°-50°	1028.1	14.1
50°-60°	1419.3	19.5
60°-70°	1722.0	23.6
70°-80°	1423.1	19.5
80°-90°	204.7	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°	7293.0	100.0
0°-180°	7293.0	100.0

Coefficient of Utilization



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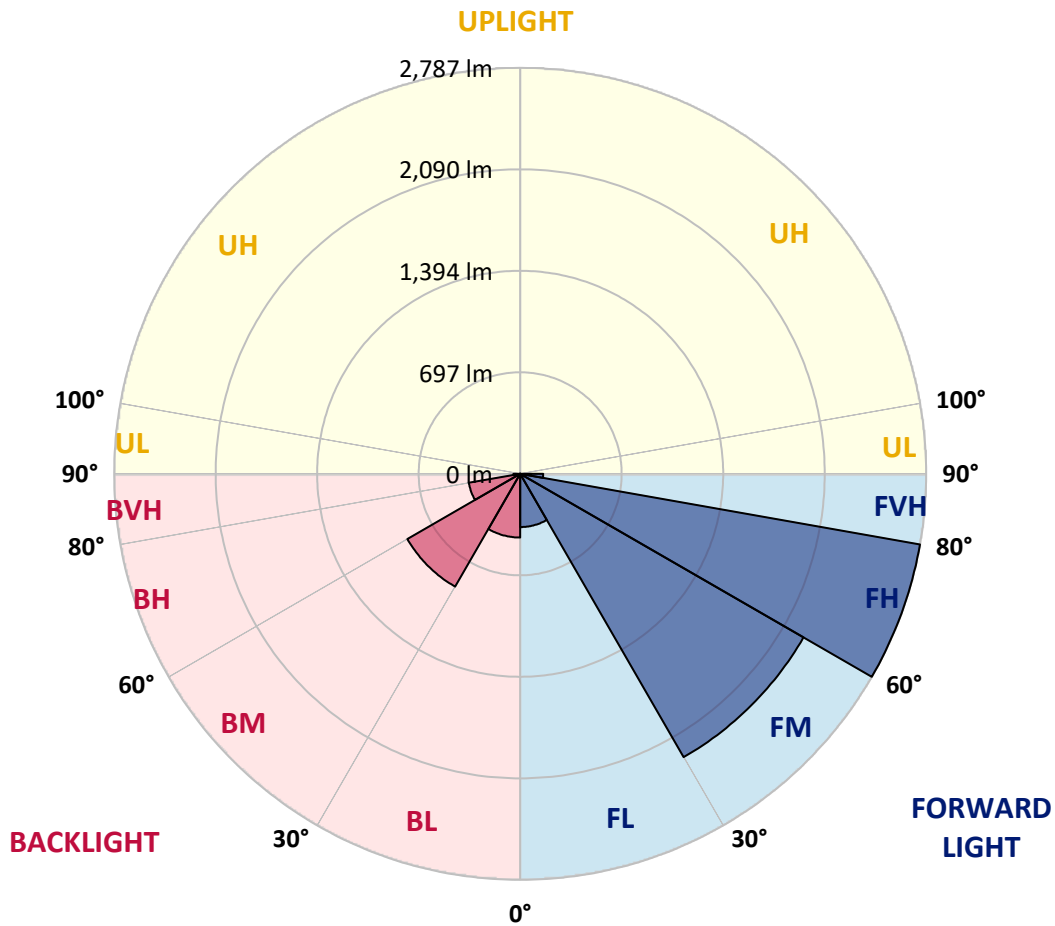
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	365.7	5.0			
FM (30°-60°)	2245.8	30.8			
FH (60°-80°)	2787.3	38.2			G2/5000
FVH (80°-90°)	158.6	2.2			G2/225
BL (0°-30°)	437.4	6.0	B1/500		
BM (30°-60°)	894.3	12.3	B1/1000		
BH (60°-80°)	357.8	4.9	B1/500		G1/500
BVH (80°-90°)	46.1	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°	971.8	971.8	971.8	971.8	971.8	971.8	971.8	971.8	971.8	971.8	971.8
2.5°	896.1	901.7	904.0	902.8	908.8	908.0	916.3	926.5	940.7	954.5	974.6
5°	827.1	833.1	838.2	842.9	854.4	857.9	870.9	890.6	916.6	943.1	976.2
7.5°	762.9	768.0	775.9	784.6	803.9	807.4	829.1	859.9	896.1	934.8	980.5
10°	710.4	715.6	723.9	733.7	757.8	762.1	789.7	830.7	878.0	926.9	985.2
12.5°	688.0	689.6	694.3	704.1	725.0	727.8	758.2	805.1	860.3	921.0	992.3
15°	686.8	689.9	690.3	695.5	712.8	714.0	742.0	788.5	849.2	919.8	1003.0
17.5°	698.6	701.0	697.4	700.6	715.2	717.2	739.2	780.6	845.7	924.9	1021.1
20°	730.2	732.1	721.5	717.2	727.8	729.4	751.1	785.8	849.2	935.6	1046.0
22.5°	797.2	798.4	772.3	754.6	755.4	756.2	775.1	806.6	863.0	954.9	1077.5
25°	901.7	900.9	859.5	825.2	805.5	801.1	813.7	840.6	886.3	980.5	1118.1
27.5°	1023.9	1018.0	976.6	925.3	882.3	876.0	873.3	884.7	919.4	1014.4	1167.8
30°	1161.9	1156.4	1111.8	1044.8	985.2	975.0	949.0	943.1	968.7	1060.5	1236.8
32.5°	1313.3	1309.7	1256.5	1175.3	1095.6	1083.8	1040.0	1024.3	1044.4	1130.3	1333.0
35°	1440.2	1437.1	1392.9	1309.3	1211.9	1197.4	1152.8	1135.1	1145.3	1219.8	1458.7
37.5°	1554.9	1553.4	1515.5	1449.7	1349.1	1331.4	1281.3	1275.4	1273.4	1337.7	1611.3
40°	1661.4	1657.5	1618.0	1583.3	1508.8	1492.7	1448.5	1443.4	1428.4	1482.8	1784.0
42.5°	1779.3	1769.0	1711.9	1695.7	1675.6	1662.2	1635.8	1636.6	1603.4	1646.4	1966.9
45°	1875.5	1869.6	1810.8	1801.4	1823.0	1817.5	1840.4	1846.3	1782.0	1817.9	2157.0
47.5°	1978.8	1973.3	1923.6	1916.9	1975.6	1977.2	2058.0	2060.0	1956.3	1996.1	2347.4
50°	2106.1	2098.2	2048.9	2057.2	2123.1	2129.0	2276.8	2263.4	2116.8	2177.1	2536.3
52.5°	2190.1	2194.8	2184.2	2197.6	2287.5	2293.0	2492.1	2457.8	2275.6	2355.7	2721.6
55°	2252.0	2261.5	2294.6	2325.3	2460.9	2466.5	2695.1	2642.7	2407.3	2521.3	2895.8
57.5°	2331.6	2318.2	2380.1	2440.1	2625.7	2640.3	2892.7	2820.9	2524.0	2664.0	3015.3
60°	2446.0	2436.5	2484.6	2573.3	2810.3	2833.5	3101.6	2981.4	2609.6	2777.1	3038.5
62.5°	2677.8	2654.1	2661.6	2740.1	3042.9	3073.6	3337.4	3121.3	2652.2	2821.3	2913.9
65°	3024.3	2983.7	2945.9	3000.3	3370.5	3400.9	3603.5	3231.3	2636.4	2735.7	2583.2
67.5°	3460.8	3420.6	3374.0	3425.3	3853.1	3877.1	3931.9	3293.2	2512.2	2406.1	1998.5
70°	3820.7	3805.8	3861.3	4072.3	4623.8	4624.6	4353.0	3242.0	2172.0	1705.9	1156.4
72.5°	3773.0	3764.0	4056.9	4709.0	5595.3	5574.4	4751.6	2854.0	1463.1	769.6	433.3
75°	3095.3	3154.0	3607.8	4697.6	5944.2	5941.4	4507.5	1814.4	605.2	319.0	223.9
77.5°	1659.8	1752.9	2342.3	3468.3	4640.4	4710.2	3169.0	634.8	259.8	204.2	154.9
80°	541.3	622.5	933.6	1765.9	3015.3	3002.3	1358.2	249.2	177.8	144.7	107.2
82.5°	229.9	239.3	417.1	833.9	1547.5	1523.4	432.5	143.1	125.0	99.0	66.2
85°	89.9	100.5	184.1	385.6	670.2	655.6	156.1	71.0	80.0	64.7	39.4
87.5°	29.6	35.9	65.8	132.1	208.6	201.1	38.2	24.4	34.7	29.6	14.2
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°	971.8	971.8	971.8	971.8	971.8	971.8	971.8	971.8	971.8	971.8	971.8
2.5°	980.1	986.4	993.9	1005.0	1014.4	1022.3	1030.6	1035.7	1037.7	1043.6	1043.2
5°	987.2	1001.0	1019.5	1037.7	1055.4	1066.1	1075.5	1080.3	1084.6	1087.8	1088.5
7.5°	999.0	1016.8	1046.0	1069.6	1084.6	1093.3	1099.6	1098.0	1099.6	1100.4	1101.6
10°	1009.3	1034.1	1068.8	1091.3	1102.7	1103.1	1101.6	1096.0	1093.3	1093.7	1094.5
12.5°	1021.5	1049.1	1086.6	1105.5	1108.6	1100.0	1093.3	1083.8	1080.3	1078.7	1077.9
15°	1038.1	1069.6	1105.9	1113.0	1105.1	1094.1	1082.6	1067.3	1059.4	1053.1	1055.0
17.5°	1058.2	1092.9	1120.9	1115.7	1098.8	1080.7	1062.1	1038.9	1022.7	1016.0	1016.4
20°	1086.2	1117.3	1132.3	1109.8	1084.2	1056.6	1025.1	996.7	981.7	975.0	974.2
22.5°	1120.1	1150.0	1143.3	1099.6	1063.3	1019.2	979.7	958.8	951.3	946.6	947.4
25°	1160.7	1186.3	1151.2	1084.6	1029.0	969.5	939.1	932.4	928.9	925.3	925.3
27.5°	1213.5	1227.3	1157.1	1062.5	975.4	916.6	905.6	906.8	905.6	899.7	900.9
30°	1283.3	1280.5	1162.7	1026.6	913.9	868.9	869.7	874.9	875.6	871.7	873.7
32.5°	1375.2	1347.2	1165.4	980.1	855.1	827.1	827.9	833.5	837.4	830.7	833.9
35°	1486.3	1424.8	1161.1	921.8	809.8	787.3	781.4	783.0	784.2	777.9	782.2
37.5°	1616.1	1512.0	1141.8	857.1	772.3	748.3	735.7	725.0	718.7	712.8	716.8
40°	1758.4	1607.0	1106.3	794.0	730.6	706.9	688.0	667.9	646.6	638.7	642.2
42.5°	1907.4	1704.8	1063.3	733.7	682.5	663.1	643.0	613.9	581.9	565.8	567.7
45°	2062.0	1804.9	1021.1	674.2	633.2	624.9	601.6	566.5	531.9	511.4	509.8
47.5°	2213.4	1899.5	959.2	614.3	587.0	596.1	578.0	545.7	507.0	474.7	471.1
50°	2358.0	1988.2	857.9	553.5	549.6	587.4	570.1	523.6	479.4	438.0	434.5
52.5°	2501.6	2060.0	728.2	498.3	529.5	585.1	559.8	508.6	454.6	411.2	406.5
55°	2623.4	2097.0	603.2	451.0	500.3	565.0	547.6	490.8	419.5	373.4	369.4
57.5°	2692.8	2067.1	499.1	404.5	460.1	531.9	526.7	453.0	377.7	342.2	337.5
60°	2662.8	1945.7	414.0	363.9	421.9	496.0	490.5	415.5	345.8	312.3	307.5
62.5°	2497.6	1714.2	346.6	328.4	387.2	459.3	454.2	386.8	321.3	289.0	283.9
65°	2164.9	1394.5	294.1	298.8	352.1	415.2	422.6	362.7	302.0	270.5	265.3
67.5°	1651.1	1010.1	253.1	273.2	317.8	371.8	393.5	345.4	285.8	255.9	251.1
70°	941.1	573.6	218.4	248.4	287.4	331.6	371.0	331.6	268.5	243.7	240.5
72.5°	356.8	263.4	188.8	223.5	258.2	297.7	346.2	309.9	248.4	229.9	226.7
75°	190.4	160.5	158.9	194.4	224.7	264.5	315.0	288.6	233.4	242.9	250.7
77.5°	129.7	113.5	132.9	166.4	188.1	227.9	281.9	256.3	202.3	201.5	185.7
80°	89.9	80.4	108.0	134.0	145.5	191.6	246.0	220.0	164.8	153.8	147.1
82.5°	54.0	52.4	80.8	100.1	102.9	147.8	203.8	184.5	134.8	117.5	118.3
85°	29.6	31.1	51.6	58.7	59.9	103.3	159.7	142.7	103.7	87.1	87.9
87.5°	8.3	10.6	18.9	23.3	28.8	53.6	95.0	84.8	52.0	36.3	36.3
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)