

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: P881874

Luminaire Tested: **NAV-SB1C-727-U-SL4**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P881874
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-9)
Test Lab: INNOVATION CENTER
Issue Date: 10/7/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB1C-727-U-SL4
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 2700K, 615mA LIGHTSQUARE WITH 26 LEDS AND TYPE IV SPILL LIGHT
ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6733 lumens
Efficiency: N/A
Efficacy: 123.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B2 - U0 - G2

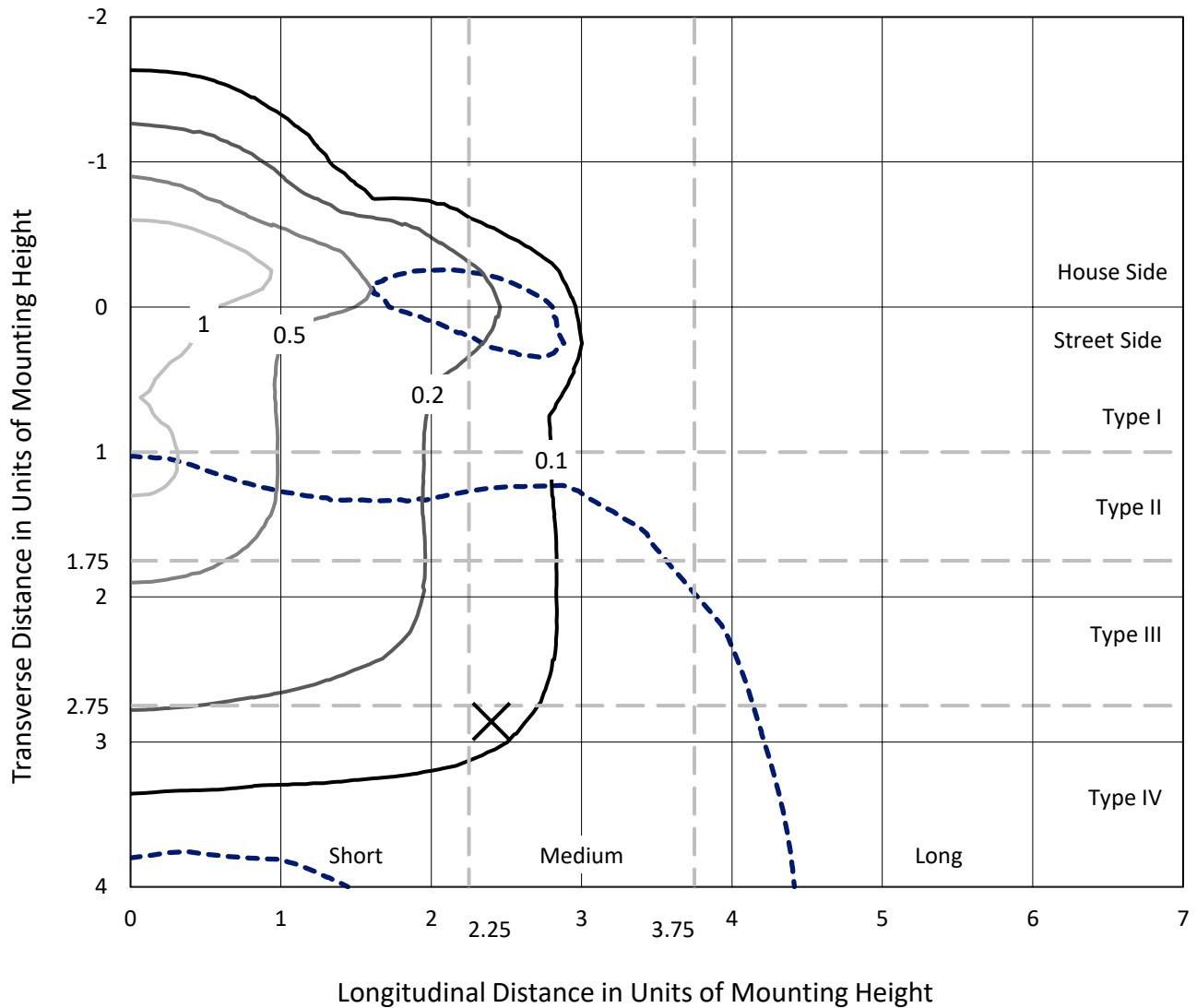
Input Watts (W): 54.4
Input Voltage (V): 120.0
Input Current (Ain): 0.437
Voltage Rise (V): NR
Power Factor: 0.993
Total Harmonic Distortion (THDi): 9.314
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

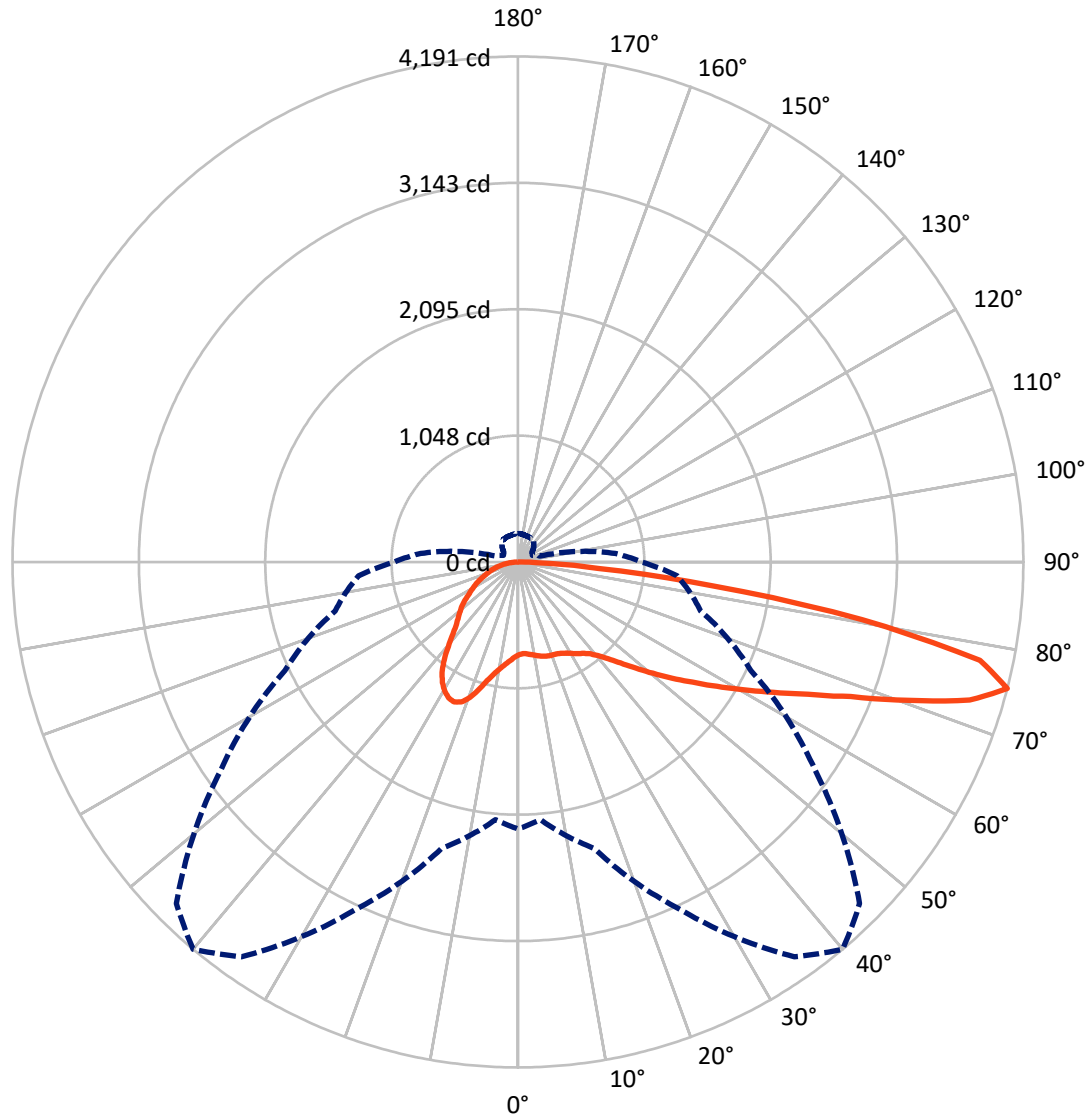
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.6 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2086.1	0.0	2086.1
	% Fixture	31.0	0.0	31.0
Street Side	Lumens	4646.9	0.0	4646.9
	% Fixture	69.0	0.0	69.0
Total	Lumens	6733.0	0.0	6733.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	76.9	1.1
10°-20°	258.0	3.8
20°-30°	471.1	7.0
30°-40°	668.2	9.9
40°-50°	902.3	13.4
50°-60°	1213.8	18.0
60°-70°	1540.6	22.9
70°-80°	1398.2	20.8
80°-90°	203.8	3.0
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°	6733.0	100.0
0°-180°	6733.0	100.0

Coefficient of Utilization



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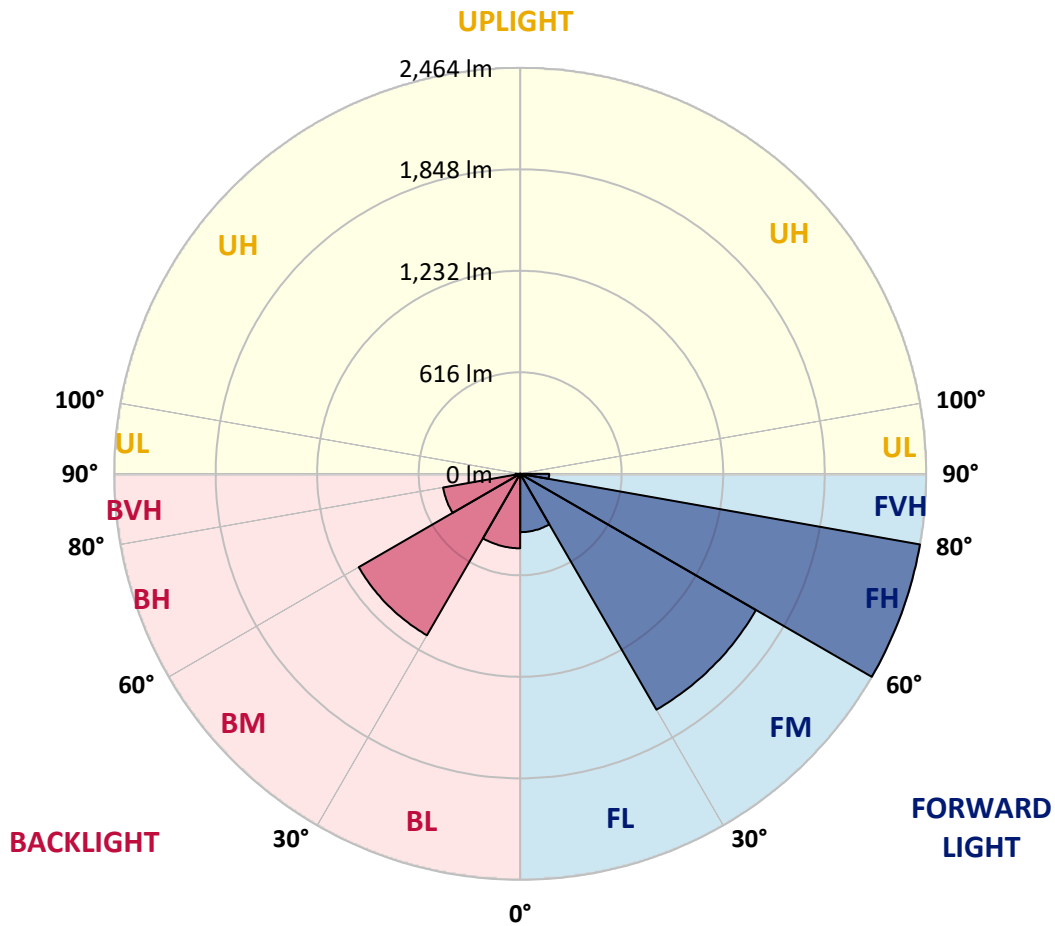
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	354.2	5.3			
FM (30°-60°)	1652.8	24.5			
FH (60°-80°)	2464.2	36.6			G2/5000
FVH (80°-90°)	175.8	2.6			G2/225
BL (0°-30°)	451.9	6.7	B1/500		
BM (30°-60°)	1131.5	16.8	B2/2500		
BH (60°-80°)	474.7	7.0	B1/500		G1/500
BVH (80°-90°)	28.1	0.4			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 IV Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	769.9	769.9	769.9	769.9	769.9	769.9	769.9	769.9	769.9	769.9	769.9
2.5°	758.1	762.4	761.4	759.9	759.9	760.3	759.9	762.4	764.9	767.4	771.4
5°	766.0	770.3	768.1	766.4	764.9	764.6	763.5	763.1	764.6	767.8	773.1
7.5°	781.4	785.6	782.4	779.2	776.4	774.9	773.5	771.4	770.3	772.1	779.6
10°	798.5	802.8	798.9	793.1	788.5	786.7	785.3	783.1	781.7	782.8	791.0
12.5°	815.6	819.9	814.6	806.7	800.6	799.6	797.8	797.1	796.7	796.4	804.6
15°	831.7	835.3	828.5	819.2	812.8	811.0	809.2	810.3	812.1	814.2	823.5
17.5°	844.2	847.8	837.8	825.6	819.6	818.9	817.8	821.4	826.4	831.7	843.1
20°	855.6	859.2	846.3	829.9	822.8	822.8	823.1	830.6	837.8	845.6	861.3
22.5°	871.7	874.6	858.8	836.3	826.0	826.7	829.6	837.1	846.0	856.7	878.5
25°	895.6	897.8	878.5	848.5	836.7	838.8	841.3	844.9	853.5	866.0	895.3
27.5°	934.2	936.0	910.6	869.9	852.1	855.6	859.2	856.7	860.6	871.3	908.8
30°	988.5	989.5	957.4	903.5	878.1	879.9	880.6	870.3	862.8	871.3	918.5
32.5°	1052.8	1052.4	1014.2	944.2	907.8	906.0	899.9	879.6	862.1	869.6	927.1
35°	1152.4	1148.5	1099.2	1001.3	941.3	930.3	916.0	889.9	865.6	867.8	934.6
37.5°	1317.4	1305.2	1237.0	1094.9	991.3	963.1	942.1	906.7	873.5	867.1	943.5
40°	1503.4	1488.1	1413.1	1223.1	1066.3	1021.0	987.0	930.6	886.3	870.3	956.7
42.5°	1724.1	1702.3	1621.6	1374.2	1161.3	1095.6	1044.5	961.0	905.3	880.6	974.6
45°	1995.2	1966.2	1852.0	1544.5	1281.0	1193.5	1125.3	1007.0	934.2	900.6	1001.3
47.5°	2269.1	2276.2	2113.7	1739.5	1424.5	1314.2	1226.3	1076.3	976.3	932.8	1044.5
50°	2560.1	2565.1	2374.1	1955.5	1587.4	1450.6	1339.9	1153.8	1034.9	978.5	1109.2
52.5°	2787.2	2788.0	2610.5	2181.6	1757.0	1600.6	1462.4	1242.4	1102.8	1039.2	1195.2
55°	2929.4	2927.6	2776.2	2395.5	1952.0	1758.0	1598.1	1343.1	1185.6	1110.6	1303.4
57.5°	3032.6	3027.2	2890.4	2579.4	2159.8	1944.1	1751.6	1457.4	1283.5	1195.6	1445.9
60°	3071.9	3068.6	2967.9	2738.3	2378.3	2149.8	1928.7	1585.2	1394.5	1295.9	1629.1
62.5°	3086.9	3092.9	3044.0	2892.2	2612.3	2377.6	2123.4	1738.1	1519.5	1409.5	1822.3
65°	3139.7	3150.8	3140.8	3093.6	2876.5	2644.4	2381.6	1919.8	1655.9	1531.3	2024.1
67.5°	3244.3	3255.4	3259.7	3334.7	3199.3	2976.9	2703.7	2146.2	1815.5	1657.7	2175.9
70°	3241.8	3238.6	3314.3	3526.5	3603.6	3437.2	3137.9	2424.8	2005.9	1762.7	2195.2
72.5°	2950.8	2925.1	3104.0	3524.3	3940.0	3917.8	3668.2	2784.0	2170.2	1775.5	1904.8
75°	2213.7	2145.2	2461.2	3176.1	3996.1	4190.7	4005.3	3006.9	2131.2	1568.8	1325.6
77.5°	946.7	877.8	1250.2	2351.2	3576.4	3917.5	3696.1	2623.3	1701.3	1037.4	651.0
80°	247.8	247.5	377.8	1066.0	2432.3	2892.9	2538.0	1694.1	972.1	370.7	179.6
82.5°	102.5	100.0	138.9	414.6	1188.5	1623.4	1324.9	755.6	351.0	100.3	59.6
85°	38.2	37.9	67.5	143.2	419.2	669.6	484.6	193.2	87.5	48.9	26.8
87.5°	10.7	10.4	14.6	49.6	102.1	155.0	82.8	31.8	24.6	19.3	7.9
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°	769.9	769.9	769.9	769.9	769.9	769.9	769.9	769.9	769.9	769.9	769.9
2.5°	772.4	774.2	777.4	779.9	783.1	786.7	791.7	794.9	798.1	800.3	798.9
5°	775.6	779.6	787.8	796.0	805.6	814.6	824.9	832.4	838.5	840.3	841.0
7.5°	782.8	789.2	803.1	817.1	832.4	847.1	862.1	874.9	885.3	889.2	889.6
10°	795.3	803.9	823.5	843.1	863.5	886.0	905.3	923.8	938.5	944.6	944.9
12.5°	811.0	821.7	847.4	874.6	902.8	933.8	958.8	981.7	999.9	1008.1	1008.1
15°	831.4	845.3	878.1	914.6	956.0	999.2	1031.0	1056.3	1076.7	1086.7	1086.0
17.5°	853.5	872.1	913.5	968.5	1027.8	1084.5	1121.7	1140.2	1161.3	1171.0	1170.6
20°	874.9	897.8	957.1	1037.0	1116.0	1176.3	1206.3	1211.3	1212.7	1213.8	1216.7
22.5°	897.1	927.8	1011.7	1123.5	1208.1	1249.9	1254.2	1232.7	1202.7	1188.8	1192.7
25°	921.3	962.1	1083.1	1218.8	1287.4	1292.4	1259.5	1207.4	1150.6	1124.5	1128.5
27.5°	944.9	1001.7	1168.8	1309.9	1344.5	1300.6	1229.9	1156.0	1087.4	1059.9	1063.1
30°	968.5	1047.0	1263.5	1389.5	1370.6	1280.2	1183.1	1100.6	1031.7	1002.8	1006.0
32.5°	992.4	1099.9	1372.4	1447.0	1365.9	1237.0	1124.9	1038.5	977.8	947.4	951.3
35°	1019.5	1164.9	1475.6	1478.4	1334.9	1173.5	1048.1	964.2	911.3	887.1	892.4
37.5°	1054.9	1247.4	1566.6	1486.3	1280.6	1080.3	952.8	876.3	832.8	821.7	829.6
40°	1098.8	1346.7	1636.3	1473.8	1200.2	967.1	848.5	787.4	762.8	765.3	773.9
42.5°	1156.0	1457.7	1685.2	1441.7	1088.5	850.3	757.1	729.9	741.7	751.7	761.0
45°	1230.2	1573.1	1715.6	1387.0	962.1	751.4	703.1	709.6	718.5	719.6	726.7
47.5°	1325.2	1689.8	1735.6	1304.5	833.1	681.7	668.9	670.3	668.5	661.0	666.7
50°	1443.8	1803.4	1753.4	1195.2	723.5	638.2	621.0	616.0	591.4	567.1	570.3
52.5°	1578.8	1907.7	1760.9	1059.5	638.2	601.7	573.9	542.4	496.4	488.9	491.4
55°	1728.8	2004.1	1741.6	892.8	566.4	554.9	512.8	475.0	470.0	463.5	464.6
57.5°	1908.0	2108.0	1702.3	706.7	492.8	500.3	459.2	463.5	454.6	444.6	442.8
60°	2104.1	2215.5	1633.4	537.1	416.7	432.1	445.3	445.0	442.5	434.2	431.4
62.5°	2280.5	2286.2	1497.7	411.4	350.0	379.3	415.3	415.0	412.8	408.2	406.4
65°	2385.5	2275.5	1271.3	323.9	295.0	335.7	374.6	377.5	377.8	377.5	377.5
67.5°	2366.9	2150.2	960.6	257.8	249.6	291.4	334.3	338.2	341.0	341.8	342.5
70°	2156.9	1874.8	626.4	205.7	209.3	252.5	296.0	300.0	302.5	305.3	306.8
72.5°	1681.3	1378.4	358.5	166.4	173.9	218.9	258.2	262.8	264.3	269.6	271.8
75°	1024.5	810.6	193.6	131.1	142.8	187.1	220.7	226.1	228.5	235.0	235.7
77.5°	487.1	351.0	110.3	102.1	115.0	152.8	186.4	192.5	185.7	189.3	186.4
80°	164.6	130.3	69.6	77.8	87.8	119.3	149.3	155.3	141.1	140.3	138.9
82.5°	57.5	52.9	44.3	51.8	56.8	85.3	112.8	120.7	105.0	104.6	99.6
85°	22.5	21.4	24.6	28.2	33.9	52.5	74.3	78.2	64.6	52.1	51.4
87.5°	4.6	5.0	6.1	6.4	10.4	18.2	26.8	32.9	26.1	22.1	20.4
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)