

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: P960302

Luminaire Tested: **NAV-SB1C-727-U-T4W**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P960302
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-1)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB1C-727-U-T4W
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 2700K, 615mA LIGHTSQUARE WITH 26 LEDS AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7108.4 lumens
Efficiency: N/A
Efficacy: 130.7 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

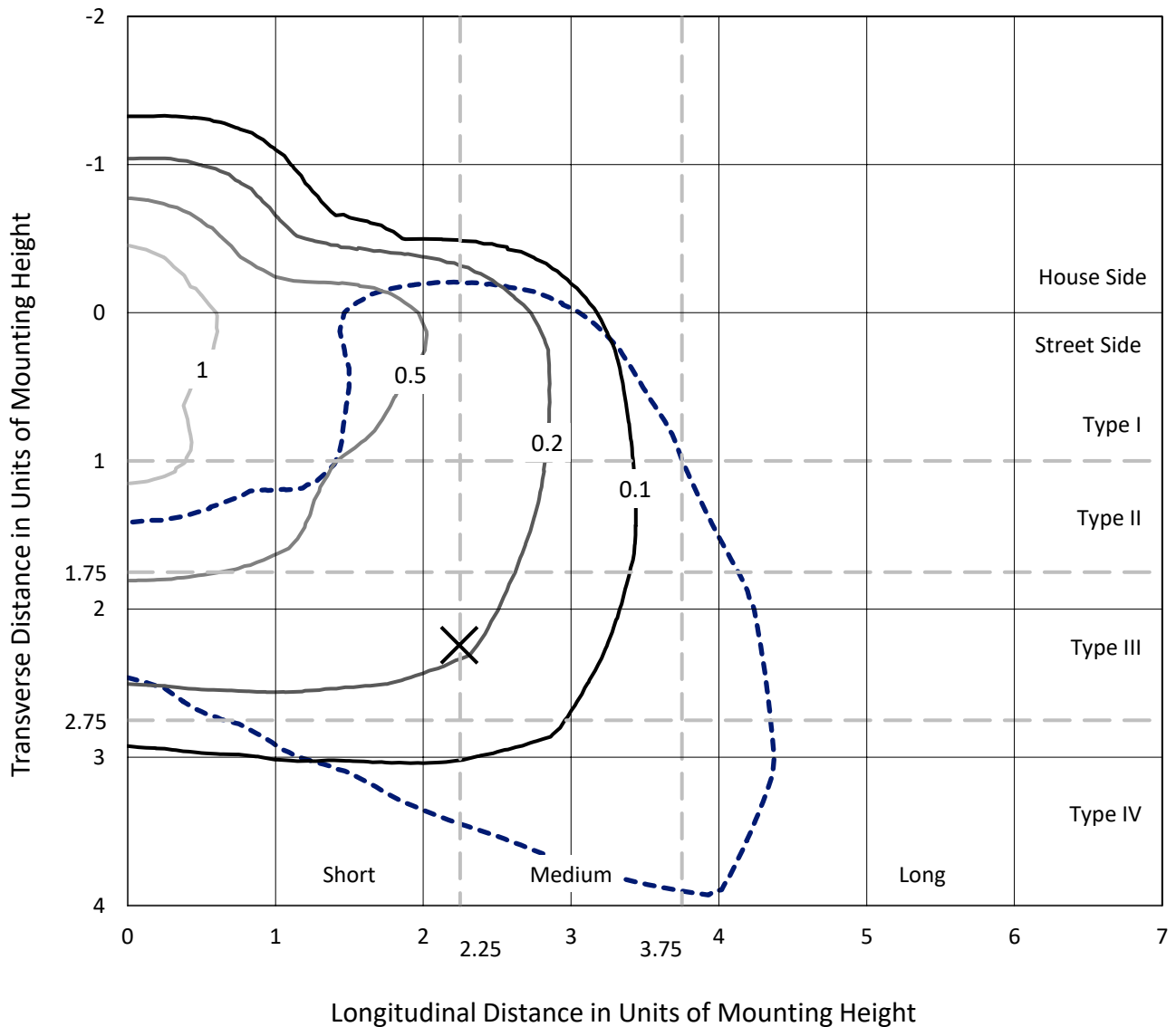
Input Watts (W): 54.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

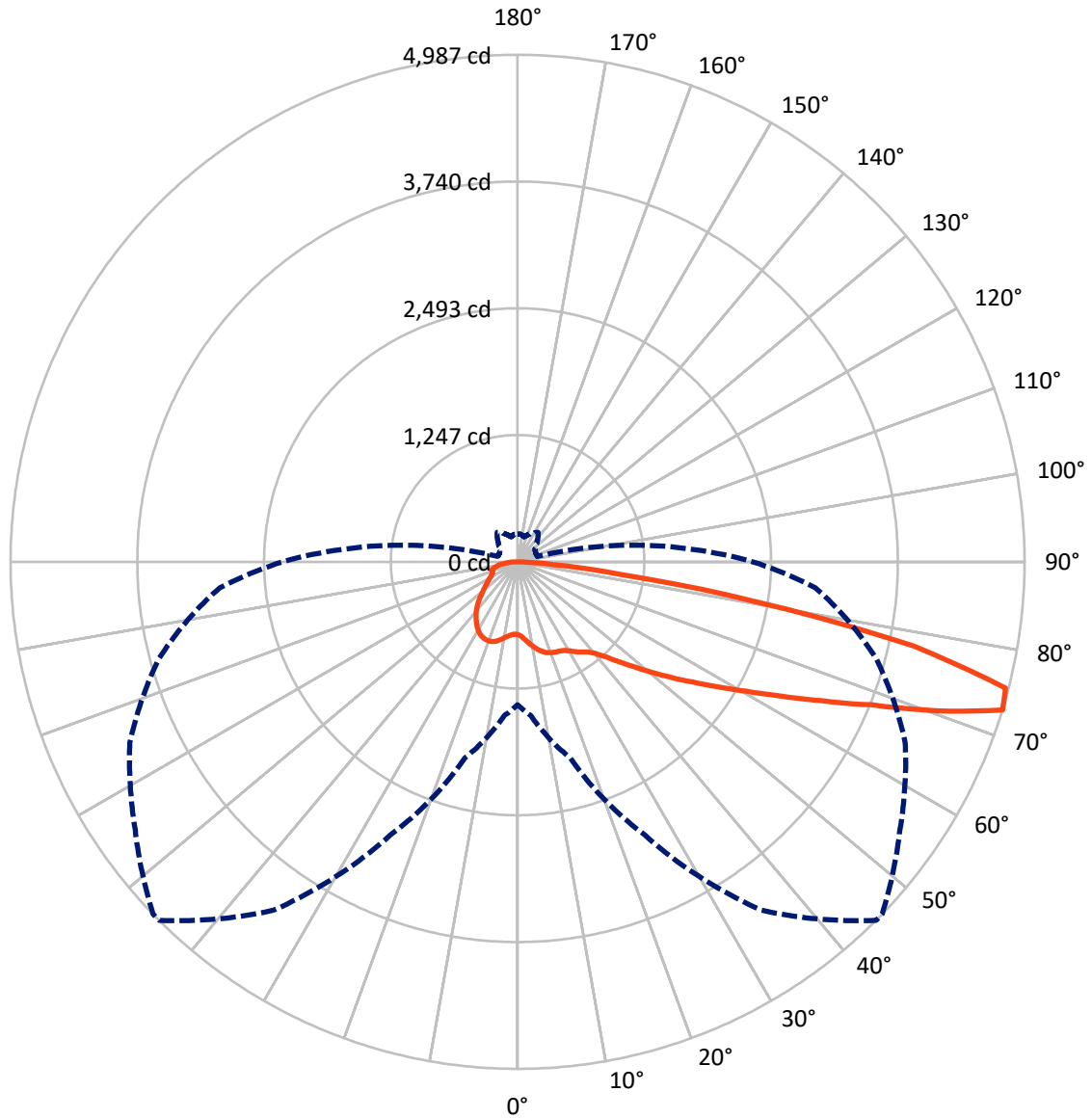
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.4 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1607.0	0.0	1607.0
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	5501.4	0.0	5501.4
	% Fixture	77.4	0.0	77.4
Total	Lumens	7108.4	0.0	7108.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	73.0	1.0
10°-20°	243.3	3.4
20°-30°	423.3	6.0
30°-40°	606.8	8.5
40°-50°	854.5	12.0
50°-60°	1308.8	18.4
60°-70°	1896.0	26.7
70°-80°	1514.1	21.3
80°-90°	188.6	2.7
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°	7108.4	100.0
0°-180°	7108.4	100.0

Coefficient of Utilization

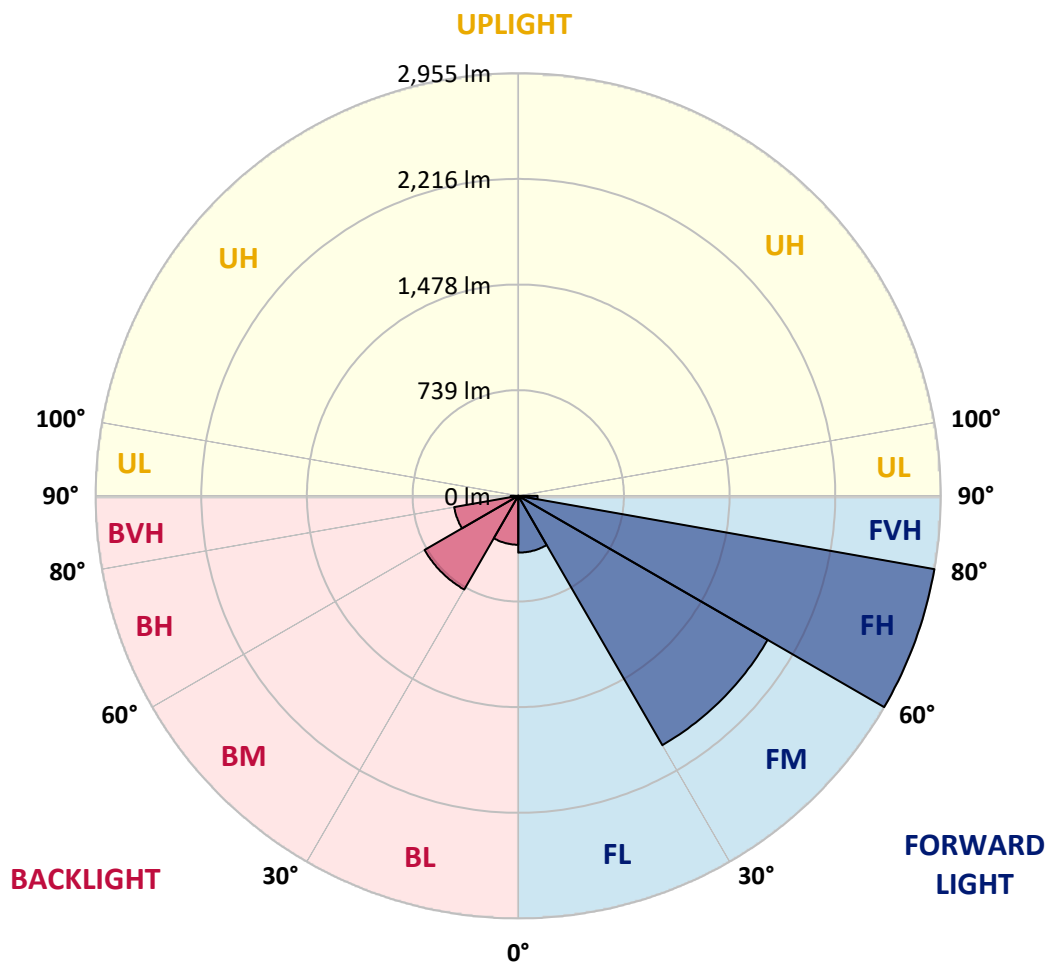


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	397.5	5.6			
FM (30°-60°)	2013.5	28.3			
FH (60°-80°)	2955.2	41.6			G2/5000
FVH (80°-90°)	135.3	1.9			G2/225
BL (0°-30°)	342.1	4.8	B1/500		
BM (30°-60°)	756.6	10.6	B1/1000		
BH (60°-80°)	454.9	6.4	B1/500		G1/500
BVH (80°-90°)	53.3	0.7			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°	45°	46°	55°	65°	75°	85°
0°	717.1	717.1	717.1	717.1	717.1	717.1	717.1	717.1	717.1	717.1	717.1
2.5°	745.2	750.1	745.6	741.5	739.5	734.7	734.3	731.3	729.5	724.2	722.7
5°	797.2	803.6	796.1	787.9	780.3	768.4	766.9	758.3	748.6	737.3	730.9
7.5°	856.0	861.6	853.0	840.7	827.6	807.7	807.4	791.6	776.2	757.2	746.3
10°	907.3	914.8	903.2	886.3	869.9	847.4	844.8	826.8	807.4	782.6	766.2
12.5°	952.6	957.9	946.7	926.1	906.9	884.5	881.1	861.3	839.6	811.5	790.5
15°	988.6	995.3	980.3	958.3	938.1	915.9	913.0	894.9	873.2	843.7	816.7
17.5°	1012.2	1017.8	1002.4	977.7	958.3	939.9	937.7	922.7	903.5	873.6	844.8
20°	1021.2	1027.2	1011.1	985.9	968.0	953.8	952.6	941.8	928.6	901.3	872.2
22.5°	1030.1	1035.8	1014.7	988.6	972.8	963.9	963.5	956.4	951.1	928.6	900.3
25°	1066.5	1067.9	1039.9	1002.0	979.6	971.7	971.4	971.0	973.2	955.6	930.5
27.5°	1097.9	1097.6	1073.6	1038.0	1003.2	986.7	986.4	990.0	997.2	982.6	962.0
30°	1144.0	1139.9	1111.4	1074.3	1042.5	1017.0	1014.7	1011.5	1017.0	1005.4	993.4
32.5°	1241.7	1228.6	1182.5	1116.6	1075.1	1055.6	1052.6	1031.7	1033.9	1026.7	1020.8
35°	1381.8	1364.6	1303.1	1196.8	1115.5	1087.8	1086.3	1059.7	1055.2	1048.9	1051.1
37.5°	1548.4	1527.0	1455.5	1312.8	1185.2	1125.2	1123.0	1099.0	1080.7	1074.0	1086.7
40°	1715.7	1688.8	1629.6	1454.4	1287.8	1187.8	1180.7	1144.3	1123.4	1112.1	1139.1
42.5°	1878.3	1855.9	1805.3	1613.1	1414.4	1279.2	1263.4	1201.3	1185.5	1175.1	1223.7
45°	2022.1	2001.9	1964.8	1782.8	1562.6	1403.5	1388.2	1286.7	1281.8	1281.8	1352.2
47.5°	2139.0	2134.5	2095.1	1955.8	1737.5	1545.1	1518.4	1405.4	1418.5	1438.7	1534.5
50°	2268.5	2256.1	2214.2	2126.2	1943.1	1707.1	1685.4	1551.0	1600.1	1655.5	1798.2
52.5°	2387.5	2394.3	2347.6	2303.7	2175.3	1888.0	1849.8	1722.9	1828.9	1920.6	2107.1
55°	2510.0	2510.4	2497.3	2491.3	2418.7	2088.0	2046.1	1929.6	2098.1	2212.0	2467.4
57.5°	2625.0	2625.7	2645.2	2698.0	2701.0	2318.7	2271.1	2183.5	2397.3	2513.4	2838.8
60°	2727.6	2732.9	2786.1	2909.6	2949.2	2583.0	2538.1	2483.5	2706.6	2823.5	3229.4
62.5°	2762.1	2781.1	2899.4	3075.1	3194.5	2907.3	2863.1	2830.5	3031.6	3140.3	3555.9
65°	2703.6	2747.4	2976.2	3211.7	3447.0	3292.6	3248.8	3213.3	3369.4	3471.7	3824.0
67.5°	2560.2	2616.7	2971.8	3355.2	3753.2	3756.2	3715.4	3631.9	3731.5	3770.9	3911.3
70°	2182.3	2267.0	2710.0	3408.7	4104.8	4390.2	4350.9	4136.0	4092.9	3902.7	3665.6
72.5°	1406.1	1520.0	1995.5	2968.0	4183.1	4986.7	4984.5	4590.9	4207.1	3646.5	2939.9
75°	513.0	582.7	927.2	1862.9	3511.3	4956.4	4971.0	4513.1	3840.5	2816.7	1831.5
77.5°	186.9	204.5	302.6	716.0	2159.6	3976.8	4007.1	3608.0	2733.6	1413.6	725.7
80°	98.1	107.8	155.0	277.9	925.3	2361.7	2409.3	2144.2	1284.7	425.8	217.6
82.5°	54.3	58.8	86.9	150.9	416.8	1009.9	1038.4	847.1	452.0	180.5	89.9
85°	29.2	31.1	40.8	82.4	203.7	350.1	358.0	253.2	180.1	106.0	43.5
87.5°	8.6	10.5	13.5	26.2	79.7	78.6	80.5	50.2	71.1	53.5	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°	717.1	717.1	717.1	717.1	717.1	717.1	717.1	717.1	717.1	717.1	717.1
2.5°	720.5	719.3	715.2	713.4	711.1	710.7	712.6	713.0	713.4	713.7	715.2
5°	727.2	723.4	719.8	717.5	718.2	718.6	722.3	725.0	726.8	728.4	729.1
7.5°	740.4	737.3	730.9	730.6	731.7	735.0	739.9	745.9	749.3	751.9	752.7
10°	759.8	754.2	746.7	747.8	750.1	754.9	765.1	769.9	775.5	780.3	779.3
12.5°	779.6	774.8	766.2	766.9	770.6	779.3	788.9	795.0	798.7	802.5	804.0
15°	805.4	796.8	787.5	787.5	794.3	803.6	808.1	812.9	815.2	819.3	820.8
17.5°	832.1	820.8	808.4	807.7	816.0	820.4	823.1	823.8	824.6	829.0	830.6
20°	858.6	846.2	828.7	827.2	829.0	828.3	827.9	827.2	828.3	833.9	836.2
22.5°	884.9	870.6	846.2	839.6	834.4	827.2	826.8	826.5	827.2	832.8	836.5
25°	915.5	898.3	865.7	845.5	827.9	818.2	819.3	819.7	820.4	824.9	831.0
27.5°	948.8	929.8	883.8	843.7	811.8	805.1	803.2	804.3	807.0	814.1	821.2
30°	982.3	959.7	900.3	836.2	791.6	782.3	776.2	778.9	787.1	794.3	802.1
32.5°	1012.6	990.0	913.3	819.7	765.8	751.2	743.3	746.7	754.9	757.6	766.9
35°	1048.2	1022.6	918.9	793.5	737.7	715.2	704.8	699.9	704.0	701.4	709.6
37.5°	1087.8	1061.2	918.2	759.0	704.8	678.9	664.3	646.0	637.3	628.3	634.0
40°	1146.6	1108.4	909.2	717.5	663.9	640.3	614.1	583.0	563.5	546.0	547.0
42.5°	1226.7	1173.9	892.7	671.8	617.9	595.7	560.2	523.9	493.1	463.9	461.4
45°	1346.2	1259.7	872.2	623.1	568.1	546.3	507.8	467.0	432.1	394.7	390.2
47.5°	1518.4	1375.0	852.7	567.6	515.7	495.8	460.9	423.1	381.9	345.6	341.5
50°	1755.1	1540.6	834.7	513.7	463.9	449.0	421.3	382.7	341.1	311.9	310.1
52.5°	2056.1	1765.6	827.2	461.8	415.6	410.0	388.0	352.0	312.7	287.9	286.1
55°	2401.8	2034.8	827.2	411.9	373.3	375.3	359.9	326.6	292.4	270.4	268.1
57.5°	2754.6	2307.5	812.2	365.8	337.4	345.2	335.5	306.3	275.6	252.8	249.0
60°	3079.6	2535.8	751.5	323.9	305.6	318.0	311.6	286.5	249.0	229.9	226.9
62.5°	3329.3	2664.7	634.7	290.6	279.3	293.6	290.2	260.2	244.2	236.3	233.7
65°	3454.5	2643.7	485.3	261.0	257.3	279.3	272.2	271.1	258.4	249.4	246.4
67.5°	3377.7	2463.2	352.0	239.2	244.6	266.2	293.6	298.1	274.5	256.9	253.9
70°	3041.0	2136.7	262.1	218.7	228.5	266.6	334.8	311.9	269.3	248.7	245.3
72.5°	2313.4	1593.4	203.4	197.0	207.5	268.4	353.1	305.6	254.3	274.9	272.6
75°	1323.0	874.7	163.3	170.4	181.2	250.9	343.8	289.0	242.6	252.4	252.4
77.5°	504.4	336.3	134.8	144.2	145.7	219.0	328.8	287.9	231.0	225.4	205.6
80°	174.9	131.4	111.6	114.6	112.7	194.7	315.3	250.5	189.1	169.2	163.6
82.5°	71.5	65.5	88.4	84.7	80.2	151.3	254.6	204.8	154.7	136.6	135.2
85°	31.1	41.6	58.4	51.4	46.4	104.9	204.1	173.3	130.7	112.7	112.3
87.5°	6.4	15.7	24.7	23.3	24.0	70.0	144.9	123.2	92.5	69.3	54.3
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)