

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: P961321

Luminaire Tested: **NAV-SB2A-722-U-T3**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P961321  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-5)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMARK  
Catalog Number: NAV-SB2A-722-U-T3  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(2) 70 CRI, 2200K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7601.4 lumens  
Efficiency: N/A  
Efficacy: 132.7 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G2

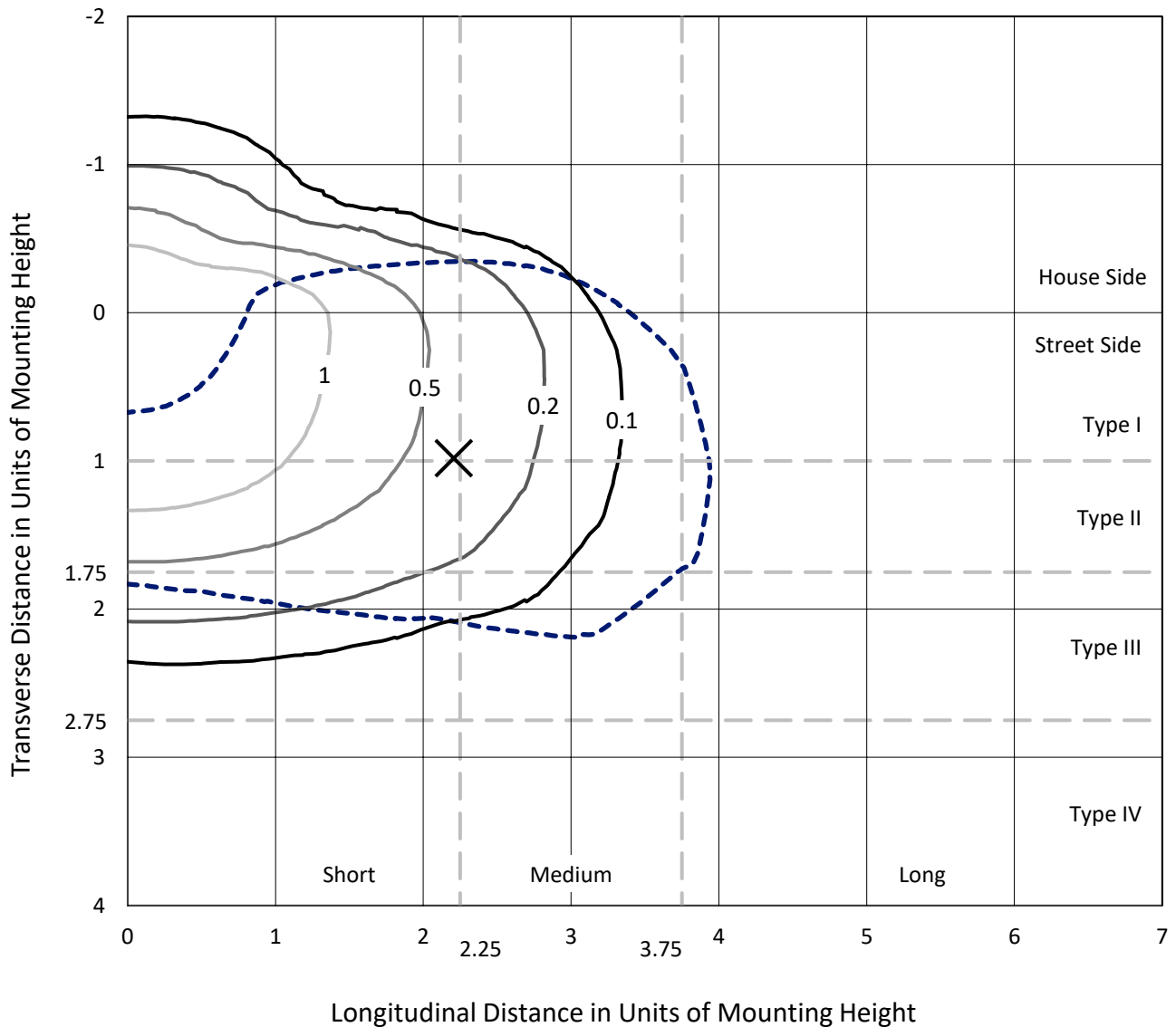
Input Watts (W): 57.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

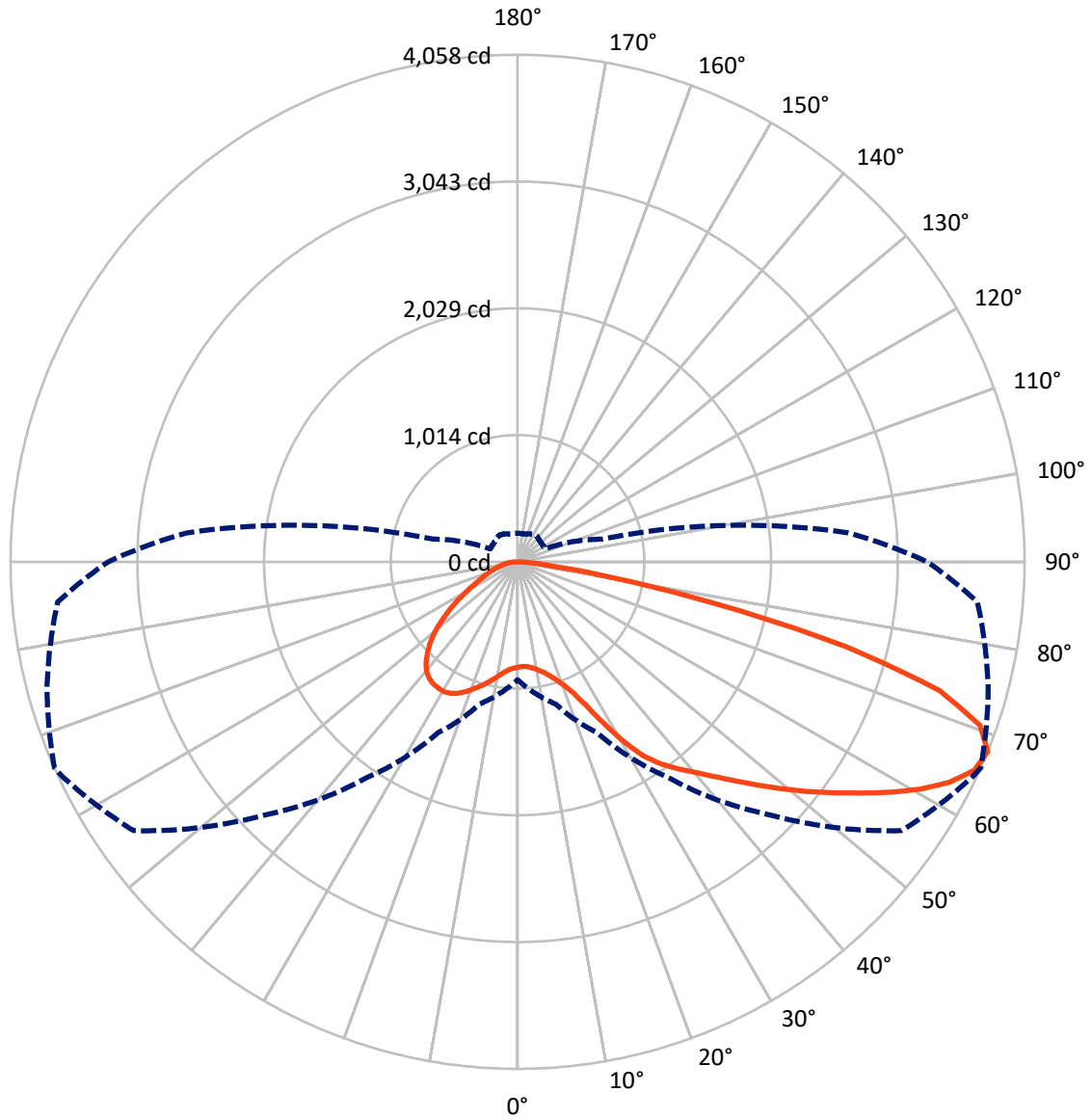
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.9 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral      - - - Horizontal Cone Through 67.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1890.1	0.0	1890.1
	% Fixture	24.9	0.0	24.9
<b>Street Side</b>	Lumens	5711.3	0.0	5711.3
	% Fixture	75.1	0.0	75.1
<b>Total</b>	Lumens	7601.4	0.0	7601.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	83.6	1.1
10°-20°	276.2	3.6
20°-30°	532.3	7.0
30°-40°	933.3	12.3
40°-50°	1387.5	18.3
50°-60°	1758.8	23.1
60°-70°	1721.0	22.6
70°-80°	820.9	10.8
80°-90°	87.7	1.2
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°	7601.4	100.0
0°-180°	7601.4	100.0

**Coefficient of Utilization**

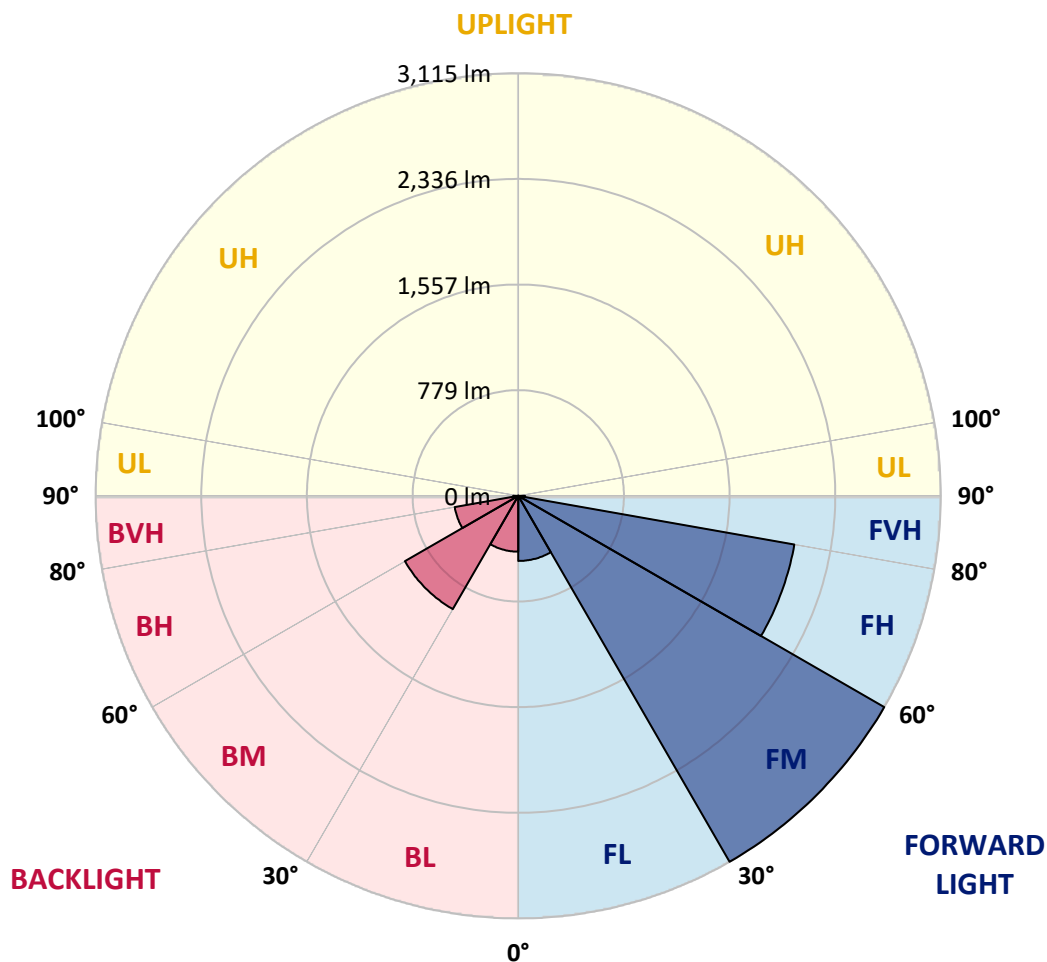


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	480.3	6.3			
FM (30°-60°)	3115.0	41.0			
FH (60°-80°)	2066.3	27.2			G2/5000
FVH (80°-90°)	49.7	0.7			G1/100
BL (0°-30°)	411.7	5.4	B1/500		
BM (30°-60°)	964.7	12.7	B1/1000		
BH (60°-80°)	475.6	6.3	B1/500		G1/500
BVH (80°-90°)	38.0	0.5			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 III Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	843.1	843.1	843.1	843.1	843.1	843.1	843.1	843.1	843.1	843.1	843.1
2.5°	834.4	839.1	837.9	835.9	835.5	836.3	837.5	838.7	838.3	840.3	843.5
5°	831.9	836.7	836.3	836.3	837.9	841.1	843.1	845.1	843.1	845.5	849.9
7.5°	833.5	837.1	838.7	840.3	844.3	850.2	855.1	859.5	857.1	859.9	865.5
10°	853.9	856.7	858.2	858.2	861.1	867.9	872.7	880.7	878.6	883.0	890.2
12.5°	891.0	893.8	893.8	892.3	894.2	898.6	900.3	909.0	905.4	912.6	919.7
15°	936.5	942.2	937.8	934.9	935.7	940.1	939.7	946.5	942.9	948.9	955.3
17.5°	986.9	994.0	986.9	986.5	984.9	989.6	990.0	996.1	989.6	994.0	998.5
20°	1046.4	1056.4	1050.4	1052.4	1048.8	1050.7	1052.8	1061.6	1051.5	1054.7	1053.6
22.5°	1130.3	1142.3	1135.8	1143.4	1141.0	1139.4	1139.1	1154.7	1139.1	1140.2	1128.6
25°	1252.4	1266.8	1255.6	1266.1	1266.1	1271.2	1277.3	1297.2	1271.2	1263.6	1233.7
27.5°	1432.9	1447.4	1425.4	1431.8	1429.8	1442.6	1436.1	1485.7	1457.8	1445.4	1385.1
30°	1650.2	1675.8	1634.3	1632.7	1630.7	1651.1	1660.2	1693.0	1664.6	1652.2	1579.5
32.5°	1885.1	1911.8	1862.3	1848.0	1840.4	1852.7	1845.1	1871.5	1852.0	1832.8	1742.9
35°	2133.5	2159.9	2112.7	2084.7	2054.4	2028.5	2001.3	2008.1	1989.7	1960.5	1867.5
37.5°	2368.4	2416.6	2366.7	2336.8	2280.8	2230.2	2154.2	2122.7	2105.6	2078.8	1984.9
40°	2607.6	2635.2	2597.1	2571.6	2510.9	2431.4	2310.0	2243.3	2220.1	2194.2	2114.7
42.5°	2783.7	2810.0	2789.6	2772.1	2724.6	2632.3	2475.4	2391.9	2358.3	2329.2	2261.7
45°	2923.5	2943.1	2930.3	2936.6	2916.3	2826.8	2646.8	2551.2	2516.5	2481.0	2427.8
47.5°	2979.8	3000.6	3020.9	3058.9	3093.7	3027.7	2830.8	2723.8	2687.0	2650.6	2598.4
50°	2973.4	2994.5	3053.7	3134.3	3242.2	3220.2	3024.9	2907.5	2873.6	2832.0	2783.7
52.5°	2922.3	2946.3	3022.1	3156.3	3328.1	3364.4	3222.6	3097.2	3065.3	3015.8	2967.4
55°	2788.1	2802.5	2916.3	3106.4	3348.5	3465.0	3416.3	3299.3	3267.4	3198.2	3145.5
57.5°	2539.2	2560.0	2725.8	2971.8	3297.3	3533.4	3586.5	3511.8	3481.0	3381.6	3326.4
60°	2214.6	2247.7	2437.4	2745.8	3167.1	3533.0	3741.0	3720.6	3695.1	3562.1	3504.6
62.5°	1847.2	1885.5	2068.0	2426.3	2939.5	3432.7	3837.7	3895.6	3882.4	3728.6	3655.2
65°	1418.6	1444.9	1626.7	2012.9	2585.2	3217.4	3848.9	4015.0	4017.4	3855.2	3733.9
67.5°	944.5	1020.4	1178.1	1510.4	2110.8	2865.6	3750.6	4034.6	4057.8	3898.8	3694.3
70°	460.8	560.8	715.2	981.6	1510.4	2326.0	3493.8	3874.0	3925.5	3771.8	3458.7
72.5°	191.3	223.7	307.9	484.4	867.0	1569.6	2977.8	3438.7	3534.1	3342.0	2907.9
75°	129.0	139.8	176.1	248.5	395.0	774.0	2147.5	2564.0	2717.8	2524.1	2063.2
77.5°	99.4	106.2	128.2	173.7	234.8	292.7	1149.4	1545.2	1624.7	1504.1	1073.6
80°	78.3	83.4	95.8	126.6	166.6	156.5	391.8	700.1	746.0	625.9	345.0
82.5°	67.9	69.9	68.7	85.9	110.6	91.4	128.6	258.4	285.2	206.8	112.6
85°	49.1	54.7	57.1	53.1	58.7	46.3	52.7	91.4	100.7	89.9	63.6
87.5°	20.0	29.5	36.4	34.3	21.5	13.2	16.4	26.8	30.7	33.5	20.8
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°	843.1	843.1	843.1	843.1	843.1	843.1	843.1	843.1	843.1	843.1	843.1
2.5°	843.9	846.6	848.7	851.1	852.7	855.1	859.9	862.6	863.0	865.1	864.7
5°	851.5	855.5	859.9	866.2	873.4	879.4	888.7	895.0	897.4	899.4	899.0
7.5°	867.9	873.4	881.4	892.6	903.0	911.0	922.2	929.8	937.4	940.1	940.5
10°	892.3	900.3	911.8	927.0	938.2	948.5	960.1	966.5	974.1	977.3	978.9
12.5°	922.6	931.0	946.2	967.3	977.6	984.9	988.9	987.3	988.9	991.7	992.5
15°	957.4	966.5	983.7	1006.4	1013.6	1007.3	998.5	990.5	989.2	990.0	992.8
17.5°	998.5	1005.2	1025.2	1044.4	1039.1	1012.8	993.6	980.9	974.5	972.5	975.3
20°	1056.0	1056.0	1072.4	1084.3	1049.6	1004.8	974.9	954.2	941.0	935.3	934.2
22.5°	1125.9	1119.5	1129.9	1121.5	1047.6	982.5	941.0	905.0	885.0	877.1	875.9
25°	1214.5	1206.9	1204.2	1152.2	1033.2	946.9	879.4	835.9	818.4	814.0	814.8
27.5°	1348.3	1329.1	1292.8	1169.0	1006.9	891.0	807.6	767.2	757.3	757.6	758.8
30°	1526.4	1488.1	1399.0	1171.8	963.7	811.9	734.1	705.3	700.5	702.5	709.3
32.5°	1691.4	1655.1	1507.7	1159.0	897.4	734.5	668.2	649.0	641.9	644.2	647.4
35°	1820.8	1810.8	1608.3	1141.0	815.9	661.7	609.1	592.7	578.7	575.5	577.9
37.5°	1943.0	1939.0	1683.8	1115.9	735.2	610.3	561.5	540.0	519.6	508.4	508.8
40°	2077.2	2073.2	1733.3	1077.2	663.8	565.5	518.8	490.5	465.2	445.0	446.9
42.5°	2228.1	2204.6	1756.8	1021.6	603.1	527.6	484.0	445.7	412.6	393.8	395.0
45°	2393.1	2340.0	1756.4	950.9	552.0	492.8	446.9	392.6	361.8	344.3	343.5
47.5°	2568.0	2469.4	1734.9	872.7	502.5	454.5	389.4	347.9	327.5	316.7	314.3
50°	2748.5	2590.4	1698.2	782.8	451.7	410.9	353.4	325.1	309.5	299.5	295.9
52.5°	2918.3	2700.3	1653.8	680.9	400.2	368.6	337.4	315.5	299.1	287.9	283.2
55°	3076.0	2794.9	1591.1	576.7	358.2	340.3	329.8	311.5	292.7	279.5	274.4
57.5°	3216.2	2856.4	1482.9	478.9	328.3	320.7	322.0	304.7	283.2	271.9	264.8
60°	3332.9	2901.5	1322.8	388.2	303.9	301.6	309.5	291.9	266.8	254.0	248.5
62.5°	3402.7	2900.7	1126.3	318.0	283.2	283.9	293.2	275.9	250.4	238.4	234.8
65°	3396.7	2829.6	910.6	271.9	263.2	264.0	275.9	258.4	236.9	229.6	229.3
67.5°	3276.5	2656.3	698.5	242.0	241.2	244.9	258.8	246.4	228.5	227.7	228.9
70°	2951.1	2296.4	503.2	218.0	218.4	223.7	242.0	238.8	224.1	225.6	225.3
72.5°	2366.3	1750.9	337.8	192.9	193.3	201.7	226.0	232.9	219.7	240.9	244.1
75°	1575.9	1091.9	217.3	166.2	166.6	177.3	212.1	221.3	207.7	240.1	242.0
77.5°	757.3	490.9	157.3	139.8	139.8	149.8	183.3	198.1	176.9	186.5	171.0
80°	261.6	184.5	123.8	112.6	110.2	117.1	154.6	171.7	152.5	140.6	131.8
82.5°	103.0	95.8	99.4	87.4	79.4	83.8	120.2	141.8	112.2	101.5	101.1
85°	59.1	62.3	70.3	57.9	45.9	51.6	88.3	101.9	84.7	74.7	76.3
87.5°	16.0	21.9	32.4	29.9	20.8	21.9	41.9	56.3	48.7	37.5	38.7
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)