

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: P884926

Luminaire Tested: **NAV-SB6A-722-U-T2-HSS**

Issue Date: 10/7/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P884926  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 10/7/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMARK  
Catalog Number: NAV-SB6A-722-U-T2-HSS  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(6) 70 CRI, 2200K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II  
OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

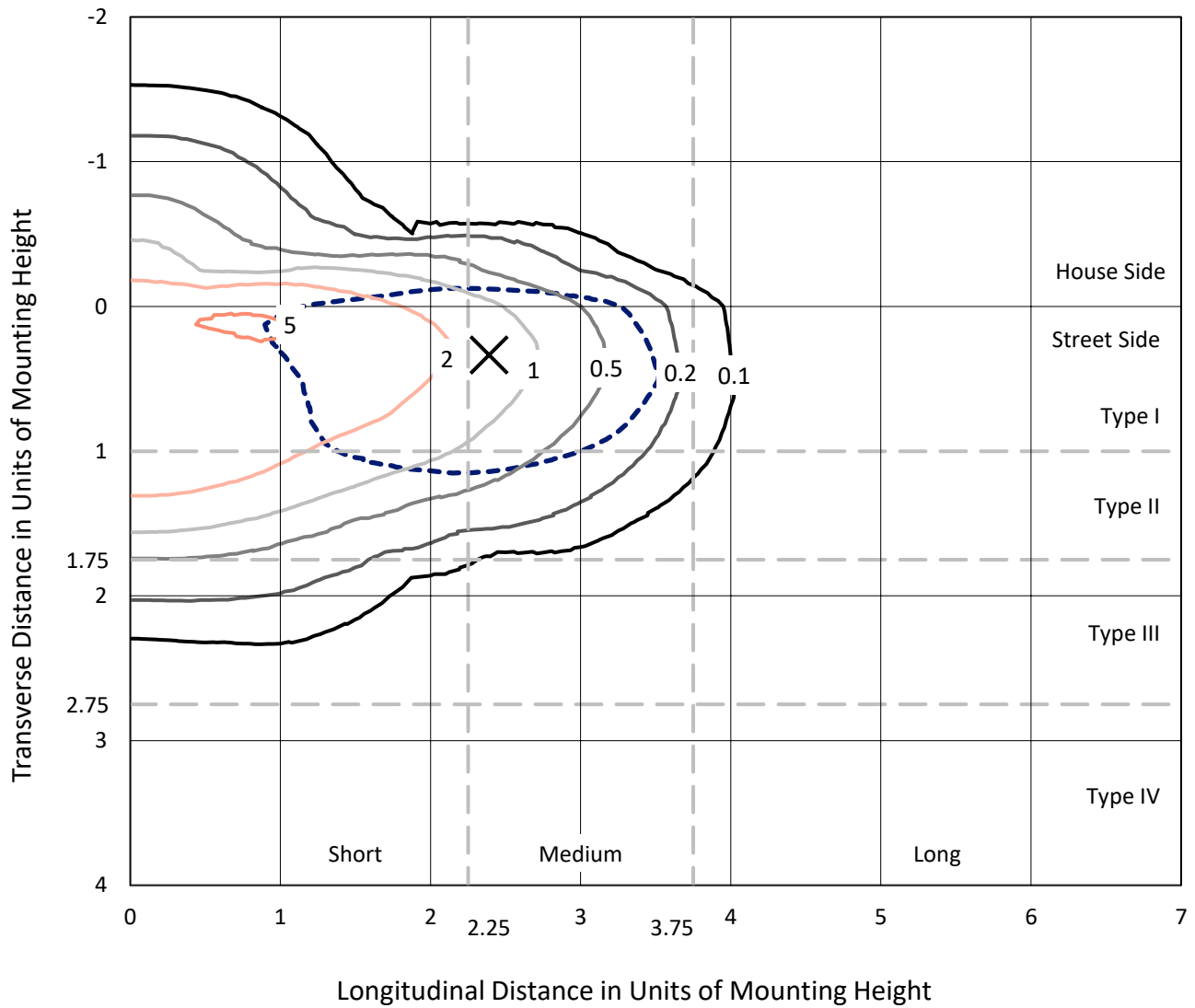
Lumens per Lamp: N/A  
Luminaire Lumens: 15843 lumens  
Efficiency: N/A  
Efficacy: 92.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B2 - U0 - G2  
  
Input Watts (W): 170.9  
Input Voltage (V): 120.0  
Input Current (Ain): 1.434  
Voltage Rise (V): NR  
Power Factor: 0.99  
Total Harmonic Distortion (THDi): 11.969  
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

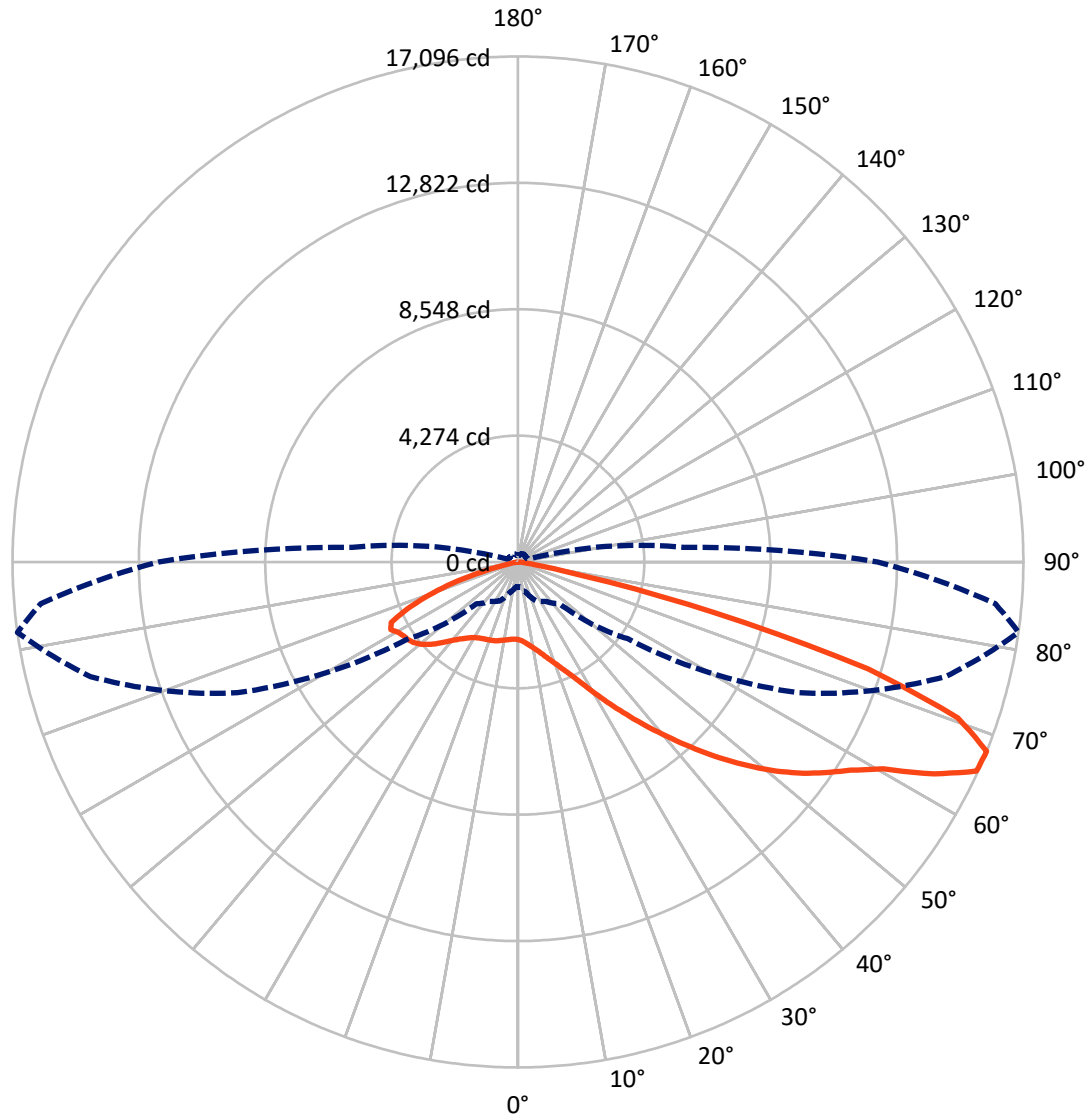
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.6 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 82-Deg Lateral      - - - Horizontal Cone Through 67.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2869.8	0.0	2869.8
	% Fixture	18.1	0.0	18.1
<b>Street Side</b>	Lumens	12973.2	0.0	12973.2
	% Fixture	81.9	0.0	81.9
<b>Total</b>	Lumens	15843.0	0.0	15843.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	233.8	1.5
10°-20°	607.6	3.8
20°-30°	973.3	6.1
30°-40°	1721.0	10.9
40°-50°	3015.4	19.0
50°-60°	4021.7	25.4
60°-70°	3744.0	23.6
70°-80°	1436.9	9.1
80°-90°	89.3	0.6
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°	15843.0	100.0
0°-180°	15843.0	100.0

**Coefficient of Utilization**



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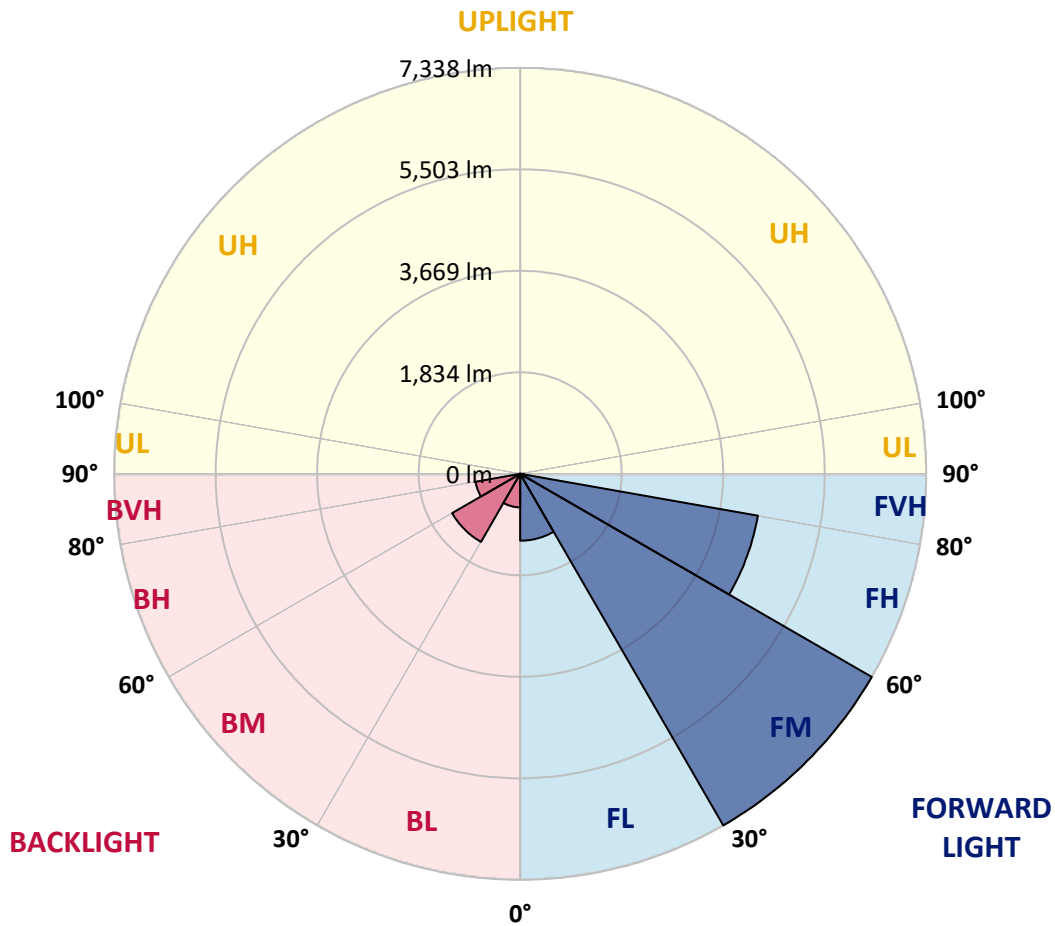
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1208.6	7.6			
FM (30°-60°)	7337.8	46.3			
FH (60°-80°)	4361.8	27.5			G2/5000
FVH (80°-90°)	64.9	0.4			G1/100
BL (0°-30°)	606.1	3.8	B2/1000		
BM (30°-60°)	1420.3	9.0	B2/2500		
BH (60°-80°)	819.1	5.2	B2/1000		G2/1000
BVH (80°-90°)	24.4	0.2			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 II Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°	85°
0°	2624.6	2624.6	2624.6	2624.6	2624.6	2624.6	2624.6	2624.6	2624.6	2624.6	2624.6
2.5°	2774.1	2790.0	2780.9	2776.4	2768.4	2757.0	2747.8	2719.3	2689.7	2670.3	2663.4
5°	2830.0	2845.9	2844.8	2849.4	2855.1	2858.5	2856.2	2824.3	2782.1	2749.0	2729.6
7.5°	2782.1	2800.3	2815.1	2838.0	2877.9	2920.1	2940.6	2933.8	2890.4	2844.8	2820.8
10°	2646.3	2665.7	2701.1	2754.7	2839.1	2930.3	3006.8	3042.1	3014.8	2964.6	2931.5
12.5°	2397.7	2417.0	2486.6	2603.0	2744.4	2903.0	3049.0	3143.6	3150.5	3100.3	3061.5
15°	2118.2	2137.6	2211.7	2357.7	2573.3	2827.7	3071.8	3250.9	3311.3	3268.0	3221.2
17.5°	1944.8	1961.9	2017.8	2135.3	2360.0	2677.1	3063.8	3364.9	3503.0	3468.7	3412.8
20°	1892.3	1907.2	1933.4	2015.5	2202.6	2520.8	3011.3	3472.2	3709.4	3690.0	3627.3
22.5°	1948.2	1961.9	1969.9	2006.4	2123.9	2418.2	2945.2	3581.7	3949.0	3951.2	3874.8
25°	2077.1	2090.8	2081.7	2104.5	2155.8	2386.3	2920.1	3710.6	4250.1	4275.2	4188.5
27.5°	2289.3	2290.4	2268.8	2267.6	2275.6	2434.2	2946.3	3848.6	4629.9	4676.7	4569.5
30°	2714.8	2697.7	2614.4	2524.3	2483.2	2577.9	3019.3	4011.7	5078.2	5161.5	5026.9
32.5°	3370.6	3345.5	3192.7	2977.1	2760.4	2809.4	3150.5	4197.6	5566.4	5717.0	5552.7
35°	4082.4	4075.6	3915.9	3595.3	3216.6	3139.1	3363.8	4441.7	6099.1	6338.6	6143.6
37.5°	4744.0	4740.6	4649.3	4271.8	3810.9	3598.8	3706.0	4761.1	6669.4	7016.2	6785.8
40°	5348.5	5358.8	5267.5	4929.9	4465.7	4188.5	4171.4	5155.8	7303.6	7754.2	7480.4
42.5°	5871.0	5882.4	5790.0	5540.2	5112.4	4840.9	4742.8	5639.4	7923.0	8546.9	8223.0
45°	6225.7	6296.4	6282.7	6083.1	5776.3	5494.5	5429.5	6246.2	8629.1	9387.6	9007.8
47.5°	6326.1	6391.1	6493.8	6521.1	6334.1	6056.9	6134.4	6977.4	9343.1	10229.4	9797.1
50°	6078.6	6139.0	6352.3	6636.3	6766.4	6680.8	6820.0	7761.0	10074.3	11068.9	10571.6
52.5°	5590.4	5651.9	5921.1	6370.6	6901.0	7170.2	7507.8	8533.2	10782.6	11864.0	11305.0
55°	4884.3	4949.3	5294.9	5803.7	6644.3	7372.1	8081.5	9304.3	11431.7	12579.2	11966.6
57.5°	3923.9	3971.8	4331.1	5042.8	5998.7	7171.3	8504.7	10146.1	12043.0	13281.8	12622.5
60°	2557.4	2599.6	3017.0	3810.9	4928.8	6500.6	8589.1	11084.9	12855.2	14195.5	13506.5
62.5°	1700.7	1729.2	1976.8	2559.6	3471.0	5212.8	8095.2	11834.3	14046.0	15785.5	15022.4
65°	1166.9	1195.4	1442.9	1849.0	2242.5	3448.2	6675.1	11735.1	15125.1	17048.2	16146.0
67.5°	832.7	856.6	1066.5	1449.8	1623.2	2003.0	4525.0	10466.7	14970.0	17096.1	16206.4
70°	596.6	610.3	783.6	1129.2	1290.1	1203.4	2516.3	8005.1	13107.3	15786.7	14972.2
72.5°	417.5	422.0	544.1	860.1	1039.1	878.3	1197.7	5337.1	9913.4	12390.9	11607.3
75°	282.9	288.6	366.2	630.8	833.8	670.7	634.2	2861.9	5819.6	6858.8	6148.1
77.5°	173.4	175.7	236.1	431.2	623.9	511.0	408.4	1212.5	2251.7	2210.6	1884.4
80°	98.1	98.1	150.6	268.1	425.5	329.6	286.3	515.6	712.9	626.2	552.1
82.5°	54.8	55.9	109.5	166.5	281.7	195.1	157.4	238.4	308.0	272.6	237.3
85°	22.8	25.1	67.3	78.7	134.6	97.0	63.9	100.4	114.1	101.5	74.1
87.5°	2.3	3.4	20.5	14.8	16.0	19.4	9.1	19.4	16.0	16.0	11.4
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°	2624.6	2624.6	2624.6	2624.6	2624.6	2624.6	2624.6	2624.6	2624.6	2624.6	2624.6
2.5°	2641.8	2624.6	2581.3	2531.1	2465.0	2433.0	2389.7	2360.0	2334.9	2337.2	2314.4
5°	2693.1	2649.7	2552.8	2431.9	2281.3	2174.1	2060.0	1981.3	1917.4	1903.8	1873.0
7.5°	2763.8	2695.4	2525.4	2307.5	2053.2	1860.4	1688.2	1577.5	1498.8	1473.7	1448.6
10°	2855.1	2755.8	2490.1	2151.3	1785.1	1539.9	1355.1	1268.4	1214.8	1196.5	1182.9
12.5°	2961.1	2825.4	2443.3	1960.8	1509.1	1273.0	1155.5	1112.1	1095.0	1089.3	1085.9
15°	3094.6	2912.1	2372.6	1734.9	1275.3	1109.9	1059.7	1054.0	1056.2	1054.0	1052.8
17.5°	3253.2	3006.8	2257.4	1502.2	1117.8	1026.6	1008.3	1012.9	1018.6	1017.5	1015.2
20°	3426.5	3100.3	2110.2	1295.8	1010.6	967.3	957.0	961.6	966.1	963.9	962.7
22.5°	3623.9	3200.7	1947.1	1135.0	938.8	912.5	901.1	902.3	902.3	897.7	895.4
25°	3860.0	3311.3	1776.0	1020.9	884.0	863.5	849.8	845.2	838.4	824.7	822.4
27.5°	4141.7	3428.8	1611.7	941.0	840.7	821.3	805.3	793.9	776.8	754.0	751.7
30°	4458.8	3571.4	1472.6	890.9	806.4	787.1	768.8	751.7	726.6	698.1	695.8
32.5°	4831.8	3724.2	1371.1	857.8	775.6	755.1	733.4	712.9	685.5	657.0	658.2
35°	5276.7	3909.0	1311.8	835.0	751.7	724.3	700.4	677.5	657.0	631.9	629.6
37.5°	5759.2	4105.2	1293.5	823.6	735.7	693.5	666.1	650.2	647.9	633.1	631.9
40°	6287.3	4337.9	1307.2	816.7	718.6	663.9	634.2	630.8	636.5	610.3	611.4
42.5°	6846.2	4614.0	1330.0	808.7	694.7	634.2	605.7	605.7	601.1	564.6	564.6
45°	7450.8	4932.2	1352.8	789.3	666.1	604.5	582.9	574.9	555.5	520.1	519.0
47.5°	8059.9	5256.1	1369.9	754.0	631.9	579.5	560.1	541.8	513.3	481.4	480.2
50°	8638.2	5547.0	1351.7	701.5	593.1	555.5	535.0	509.9	479.1	457.4	454.0
52.5°	9154.9	5799.1	1274.1	639.9	552.1	530.4	512.2	485.9	460.8	438.0	435.7
55°	9604.3	6003.3	1137.2	581.7	515.6	508.7	490.5	457.4	423.2	403.8	401.5
57.5°	10035.5	6158.4	966.1	533.8	482.5	484.8	457.4	427.7	395.8	375.3	373.0
60°	10609.2	6366.0	792.8	489.3	447.1	454.0	424.3	402.7	362.7	336.5	333.1
62.5°	11526.3	6688.8	629.6	434.6	406.1	408.4	395.8	369.6	321.7	290.9	288.6
65°	12254.1	6570.2	496.2	375.3	359.3	362.7	362.7	334.2	282.9	247.5	244.1
67.5°	12171.9	5625.7	395.8	317.1	314.8	317.1	325.1	301.1	250.9	222.4	217.9
70°	11212.6	4474.8	317.1	263.5	273.8	268.1	290.9	274.9	225.8	197.3	193.9
72.5°	9149.2	3223.5	241.8	217.9	209.9	219.0	262.4	247.5	188.2	156.3	152.8
75°	5346.3	1720.1	180.2	172.2	151.7	182.5	232.7	211.0	143.7	115.2	111.8
77.5°	1740.6	600.0	132.3	126.6	112.9	147.1	198.5	177.9	117.5	91.3	87.8
80°	466.5	181.4	90.1	83.3	73.0	109.5	157.4	141.4	84.4	59.3	58.2
82.5°	187.1	76.4	52.5	46.8	39.9	75.3	124.3	114.1	62.7	37.6	37.6
85°	60.5	25.1	19.4	14.8	18.3	46.8	74.1	77.6	44.5	19.4	14.8
87.5°	8.0	3.4	3.4	4.6	3.4	8.0	22.8	21.7	12.5	2.3	0.0
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)