

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: P885178

Luminaire Tested: **NAV-SB6B-830-U-T3-HSS**

Issue Date: 10/7/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P885178  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-6)  
Test Lab: INNOVATION CENTER  
Issue Date: 10/7/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMARK  
Catalog Number: NAV-SB6B-830-U-T3-HSS  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(6) 80 CRI, 3000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III  
OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

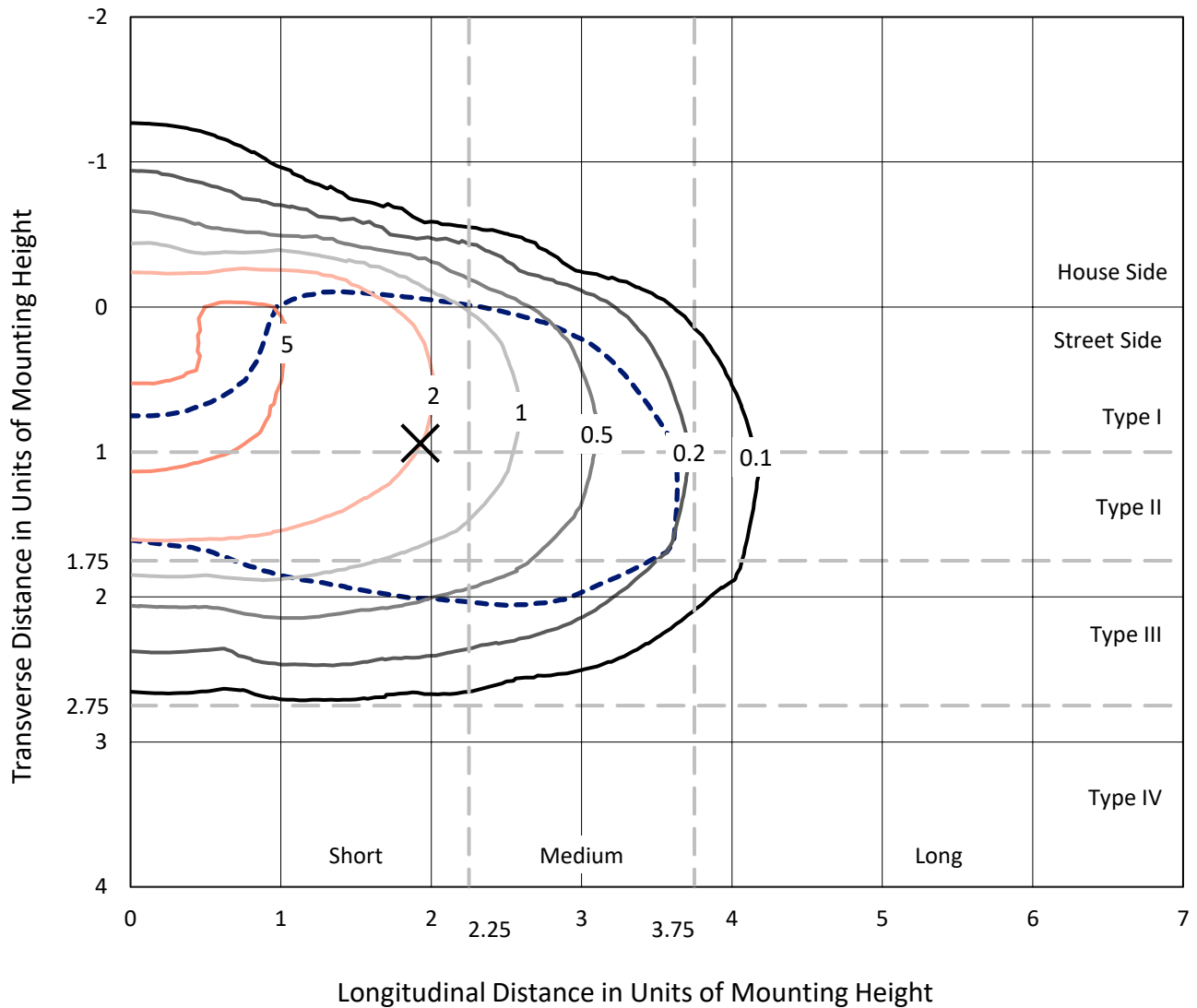
Lumens per Lamp: N/A  
Luminaire Lumens: 23455 lumens  
Efficiency: N/A  
Efficacy: 106.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G3  
  
Input Watts (W): 220.4  
Input Voltage (V): 120.0  
Input Current (Ain): 1.838  
Voltage Rise (V): NR  
Power Factor: 0.995  
Total Harmonic Distortion (THDi): 8.657  
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

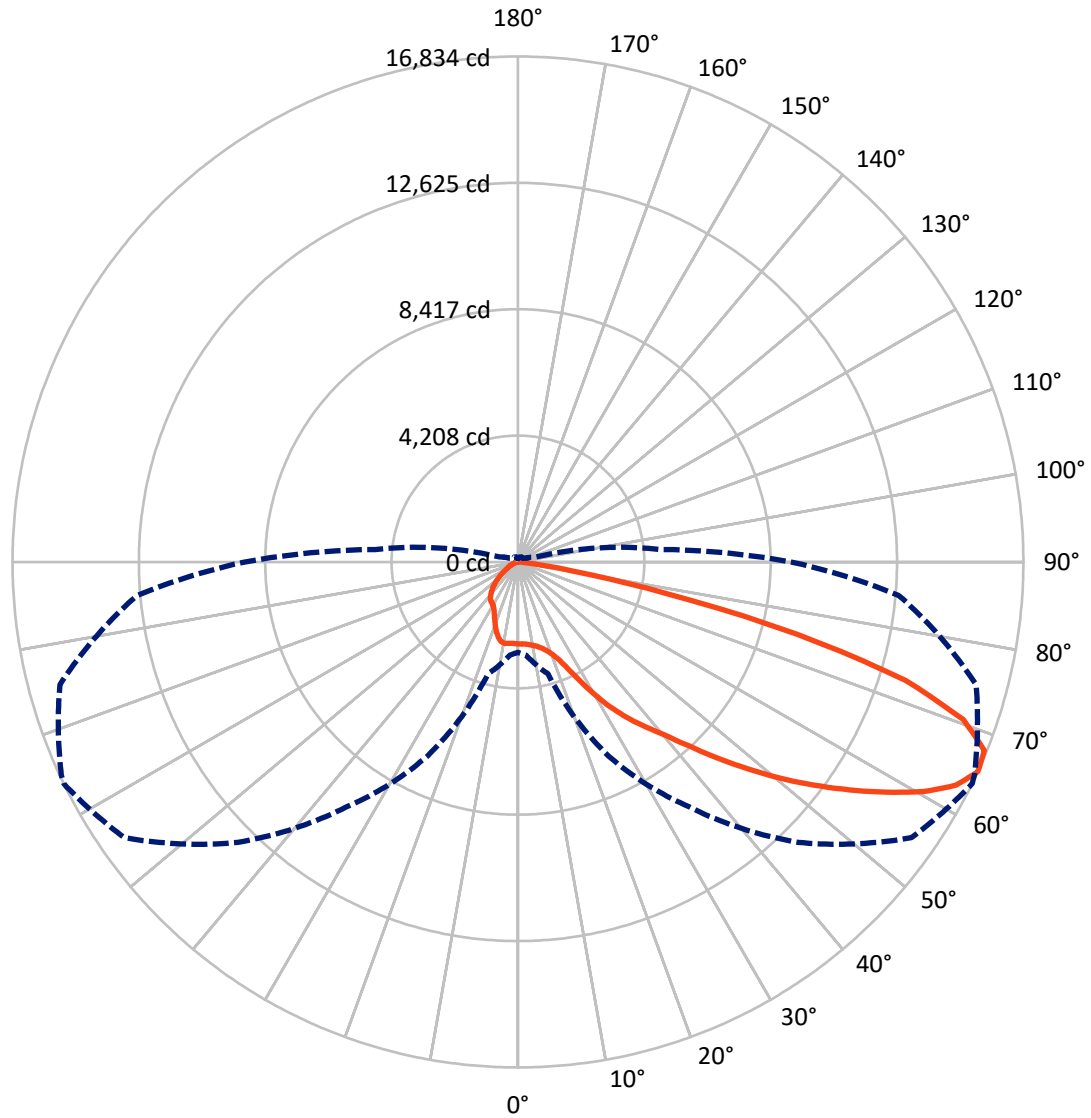
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.9 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 64-Deg Lateral      - - - Horizontal Cone Through 65-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3136.6	0.0	3136.6
	% Fixture	13.4	0.0	13.4
<b>Street Side</b>	Lumens	20318.4	0.0	20318.4
	% Fixture	86.6	0.0	86.6
<b>Total</b>	Lumens	23455.0	0.0	23455.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	251.7	1.1
10°-20°	682.7	2.9
20°-30°	1293.6	5.5
30°-40°	2617.6	11.2
40°-50°	4459.1	19.0
50°-60°	6064.0	25.9
60°-70°	5694.4	24.3
70°-80°	2281.4	9.7
80°-90°	110.5	0.5
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°	23455.0	100.0
0°-180°	23455.0	100.0

**Coefficient of Utilization**



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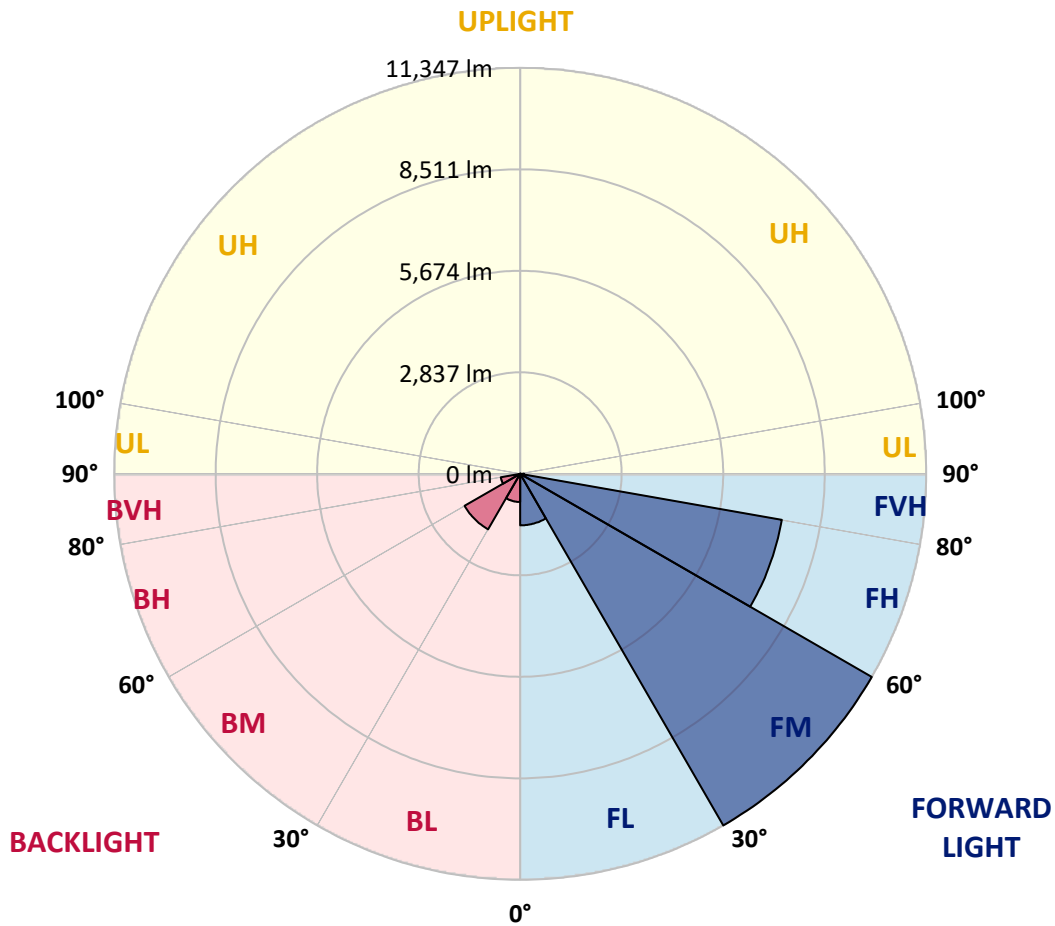
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1440.4	6.1			
FM (30°-60°)	11347.5	48.4			
FH (60°-80°)	7425.3	31.7			G3/7500
FVH (80°-90°)	105.1	0.4			G2/225
BL (0°-30°)	787.5	3.4	B2/1000		
BM (30°-60°)	1793.2	7.6	B2/2500		
BH (60°-80°)	550.5	2.3	B2/1000		G2/1000
BVH (80°-90°)	5.4	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G3**

Type III Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	2728.1	2728.1	2728.1	2728.1	2728.1	2728.1	2728.1	2728.1	2728.1	2728.1	2728.1
2.5°	2718.6	2737.5	2732.8	2728.1	2726.5	2729.6	2731.2	2729.6	2729.6	2729.6	2731.2
5°	2666.7	2682.5	2682.5	2693.5	2709.2	2728.1	2742.2	2745.4	2748.5	2753.2	2751.6
7.5°	2567.7	2580.3	2589.7	2625.9	2665.2	2715.5	2757.9	2779.9	2783.1	2800.4	2806.7
10°	2500.1	2515.8	2531.5	2569.3	2625.9	2701.3	2773.7	2827.1	2835.0	2875.9	2894.7
12.5°	2496.9	2512.6	2533.1	2574.0	2640.0	2720.2	2808.3	2885.3	2899.4	2959.2	2998.5
15°	2529.9	2548.8	2567.7	2618.0	2688.8	2786.2	2880.6	2976.5	2990.6	3075.6	3118.0
17.5°	2597.6	2622.7	2636.9	2687.2	2762.7	2871.1	2995.4	3105.4	3118.0	3217.1	3270.5
20°	2731.2	2761.1	2765.8	2806.7	2880.6	2996.9	3144.7	3281.5	3297.3	3410.5	3470.2
22.5°	3007.9	3050.4	3012.7	3033.1	3099.1	3215.5	3375.9	3548.8	3570.8	3699.8	3753.2
25°	3495.4	3555.1	3457.6	3423.0	3451.3	3572.4	3773.7	3992.2	4017.4	4121.2	4147.9
27.5°	4452.9	4375.9	4228.1	4083.4	3998.5	4067.7	4294.1	4564.6	4596.0	4696.7	4665.2
30°	5504.9	5437.3	5237.6	4916.8	4715.5	4704.5	4913.7	5215.5	5251.7	5347.6	5251.7
32.5°	6558.4	6493.9	6276.9	5882.2	5533.2	5360.2	5504.9	5839.8	5858.6	5920.0	5778.5
35°	7594.5	7528.5	7311.5	6907.4	6478.2	6085.1	6056.8	6434.1	6440.4	6504.9	6294.2
37.5°	8637.0	8582.0	8350.9	7954.6	7531.6	6989.2	6726.6	6997.0	7004.9	7067.8	6849.2
40°	9380.8	9404.3	9245.5	8938.9	8575.7	7982.9	7478.2	7596.1	7548.9	7654.3	7523.8
42.5°	10019.1	10066.3	9927.9	9773.8	9563.1	9041.1	8409.0	8388.6	8313.1	8369.7	8234.5
45°	10571.0	10610.3	10486.1	10450.0	10445.2	10078.9	9426.4	9303.7	9198.4	9187.4	9025.4
47.5°	10773.9	10849.3	10902.8	11023.9	11259.7	11105.6	10478.3	10288.0	10170.1	10083.6	9827.3
50°	10850.9	10931.1	11113.5	11465.7	12023.9	12089.9	11525.5	11311.6	11167.0	11009.7	10632.4
52.5°	10747.1	10890.2	11135.5	11728.3	12538.1	12879.3	12530.2	12343.1	12178.0	11921.7	11361.9
55°	10135.5	10278.6	10780.2	11725.2	12794.4	13432.7	13479.9	13396.6	13211.0	12806.9	11951.6
57.5°	8846.1	9058.4	9852.5	11325.8	12789.6	13909.2	14410.8	14470.5	14263.0	13684.3	12415.4
60°	7059.9	7347.7	8316.3	10440.5	12395.0	14167.0	15226.8	15525.6	15305.4	14549.1	12791.2
62.5°	4926.2	5259.6	6176.3	9053.7	11492.4	13981.5	15822.7	16374.6	16208.0	15322.7	12935.9
65°	3004.8	3111.7	3850.7	7124.4	9957.8	13204.8	16006.7	16833.8	16778.7	15796.0	12722.0
67.5°	2001.6	2091.3	2303.5	4885.4	7729.8	11652.8	15566.5	16753.6	16769.3	15719.0	11939.0
70°	1206.0	1283.1	1421.4	2841.3	5009.6	9223.5	14203.2	15731.6	15822.7	14689.1	10454.7
72.5°	496.9	548.8	674.5	1287.8	2594.4	5853.9	11310.0	13506.6	13718.9	12351.0	8023.8
75°	281.5	308.2	396.2	646.2	1125.8	2728.1	6850.8	9588.3	9901.2	8512.8	4827.2
77.5°	187.1	199.7	256.3	418.3	633.7	930.8	2927.8	4995.4	5592.9	4649.5	2089.7
80°	125.8	136.8	176.1	279.9	412.0	399.4	932.4	1850.7	2276.8	1597.5	509.4
82.5°	84.9	86.5	125.8	184.0	261.0	193.4	275.2	575.5	723.3	462.3	193.4
85°	48.7	47.2	92.8	106.9	116.4	80.2	83.3	173.0	226.4	195.0	110.1
87.5°	6.3	9.4	36.2	28.3	15.7	17.3	17.3	29.9	44.0	47.2	23.6
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°	2728.1	2728.1	2728.1	2728.1	2728.1	2728.1	2728.1	2728.1	2728.1	2728.1	2728.1
2.5°	2731.2	2729.6	2724.9	2720.2	2709.2	2702.9	2706.0	2702.9	2701.3	2702.9	2709.2
5°	2751.6	2746.9	2734.3	2718.6	2696.6	2669.9	2652.6	2627.4	2603.8	2589.7	2592.8
7.5°	2806.7	2802.0	2784.7	2740.6	2669.9	2558.2	2456.0	2366.4	2298.8	2259.5	2261.1
10°	2894.7	2886.9	2860.1	2762.7	2577.1	2333.4	2130.6	1962.3	1852.3	1800.4	1795.6
12.5°	2998.5	2989.1	2941.9	2742.2	2401.0	2020.5	1740.6	1553.5	1451.3	1405.7	1401.0
15°	3121.2	3108.6	3015.8	2644.7	2144.7	1674.6	1418.3	1278.3	1212.3	1171.4	1173.0
17.5°	3273.7	3251.7	3070.8	2498.5	1866.4	1410.4	1220.2	1114.8	1056.6	1017.3	1014.2
20°	3471.8	3435.6	3114.9	2324.0	1610.1	1243.7	1086.5	998.5	954.4	919.8	913.5
22.5°	3748.5	3696.6	3168.3	2135.3	1429.3	1129.0	987.4	923.0	886.8	847.5	841.2
25°	4091.3	4030.0	3234.4	1960.7	1305.1	1029.9	915.1	861.7	819.2	773.6	768.9
27.5°	4570.9	4460.8	3313.0	1817.7	1198.1	945.0	849.1	789.3	740.6	702.8	695.0
30°	5105.5	4924.7	3382.2	1731.2	1100.7	866.4	762.6	702.8	657.3	630.5	625.8
32.5°	5611.8	5366.5	3427.8	1693.4	1012.6	776.8	668.3	603.8	569.2	561.3	566.1
35°	6089.8	5765.9	3423.0	1657.3	934.0	687.1	575.5	509.4	482.7	487.4	487.4
37.5°	6640.1	6192.0	3390.0	1600.7	869.5	605.4	495.3	437.1	413.5	415.1	421.4
40°	7280.1	6684.1	3369.6	1493.8	798.8	529.9	429.3	382.1	364.8	358.5	356.9
42.5°	7962.5	7160.6	3372.7	1372.7	710.7	462.3	383.7	344.3	328.6	323.9	322.3
45°	8648.0	7615.0	3377.4	1246.9	617.9	410.4	350.6	317.6	308.2	301.9	301.9
47.5°	9292.7	8001.8	3289.4	1111.7	526.7	371.1	323.9	301.9	294.0	286.2	286.2
50°	9893.3	8259.7	3077.1	954.4	454.4	339.6	303.5	287.7	279.9	272.0	272.0
52.5°	10360.3	8300.5	2726.5	792.5	404.1	316.0	290.9	276.7	267.3	259.4	257.9
55°	10567.9	8044.2	2228.0	641.5	364.8	295.6	278.3	264.2	253.2	245.3	243.7
57.5°	10514.4	7504.9	1737.5	515.7	327.1	275.2	262.6	253.2	240.6	228.0	226.4
60°	10251.8	6783.2	1309.8	429.3	292.5	253.2	245.3	237.4	220.1	201.3	198.1
62.5°	9797.4	5875.9	934.0	355.4	254.7	228.0	224.8	218.6	193.4	158.8	155.7
65°	9102.4	4773.7	628.9	295.6	218.6	199.7	201.3	190.3	157.2	117.9	114.8
67.5°	8086.7	3490.7	402.5	242.1	182.4	166.7	168.2	162.0	133.7	100.6	95.9
70°	6792.6	2311.4	262.6	184.0	146.2	128.9	138.4	139.9	113.2	81.8	78.6
72.5°	4979.7	1364.8	184.0	136.8	106.9	89.6	113.2	116.4	91.2	61.3	58.2
75°	2838.1	647.8	138.4	99.1	66.0	62.9	88.1	88.1	62.9	40.9	37.7
77.5°	1191.9	270.4	97.5	64.5	37.7	36.2	59.8	55.0	31.4	18.9	18.9
80°	344.3	121.1	51.9	31.4	15.7	14.2	23.6	17.3	7.9	3.1	3.1
82.5°	135.2	53.5	20.4	12.6	6.3	6.3	3.1	0.0	0.0	0.0	0.0
85°	80.2	22.0	9.4	4.7	1.6	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	20.4	4.7	3.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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)