

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: P883928

Luminaire Tested: **NAV-SB4C-730-U-T3-HSS**

Issue Date: 10/7/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P883928  
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-SB4C-730-U-T3-HSS  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(4) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

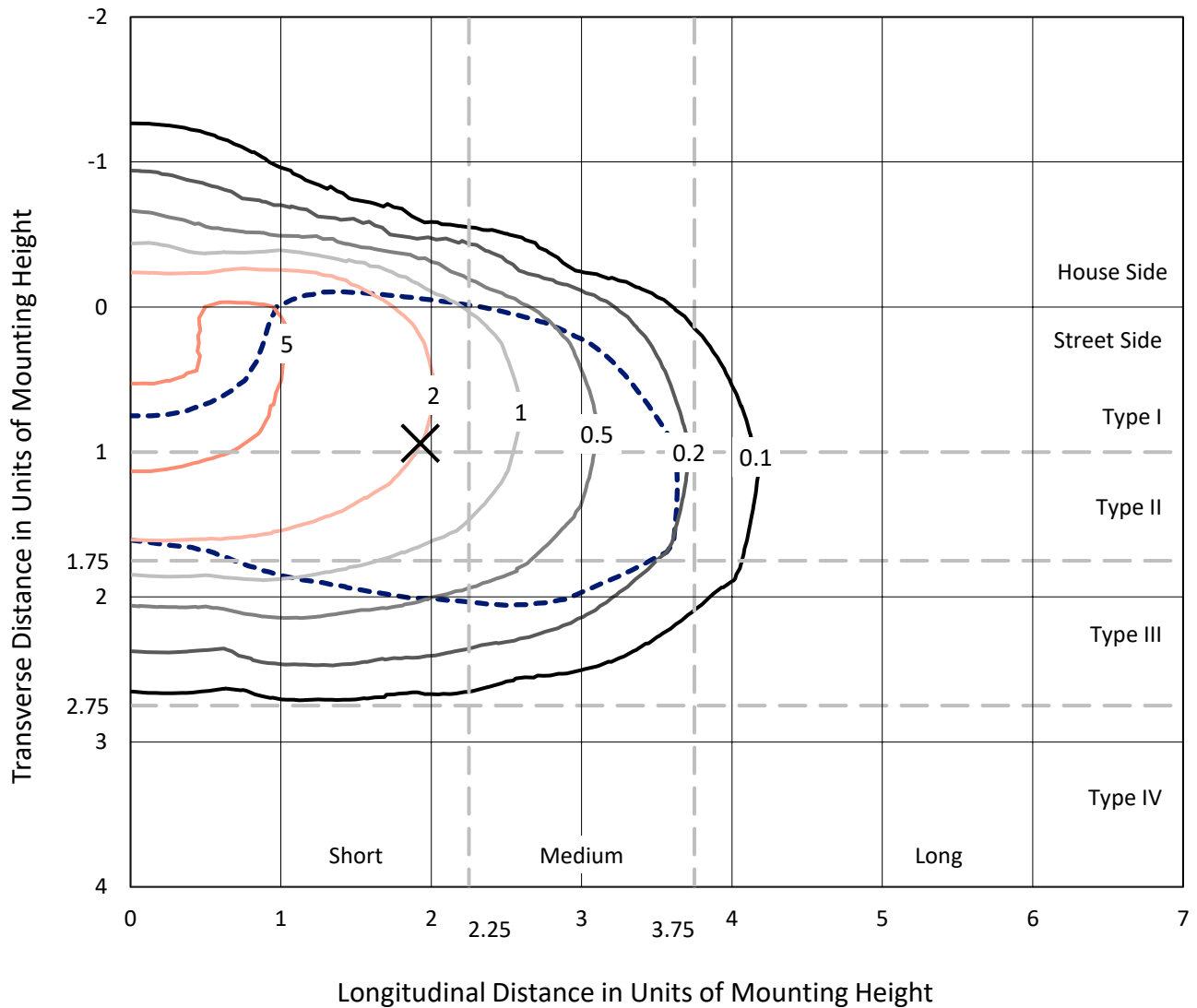
Lumens per Lamp: N/A  
Luminaire Lumens: 23431 lumens  
Efficiency: N/A  
Efficacy: 116.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G3  
  
Input Watts (W): 200.7  
Input Voltage (V): 120.0  
Input Current (Ain): 1.714  
Voltage Rise (V): NR  
Power Factor: 0.994  
Total Harmonic Distortion (THDi): 9.472  
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

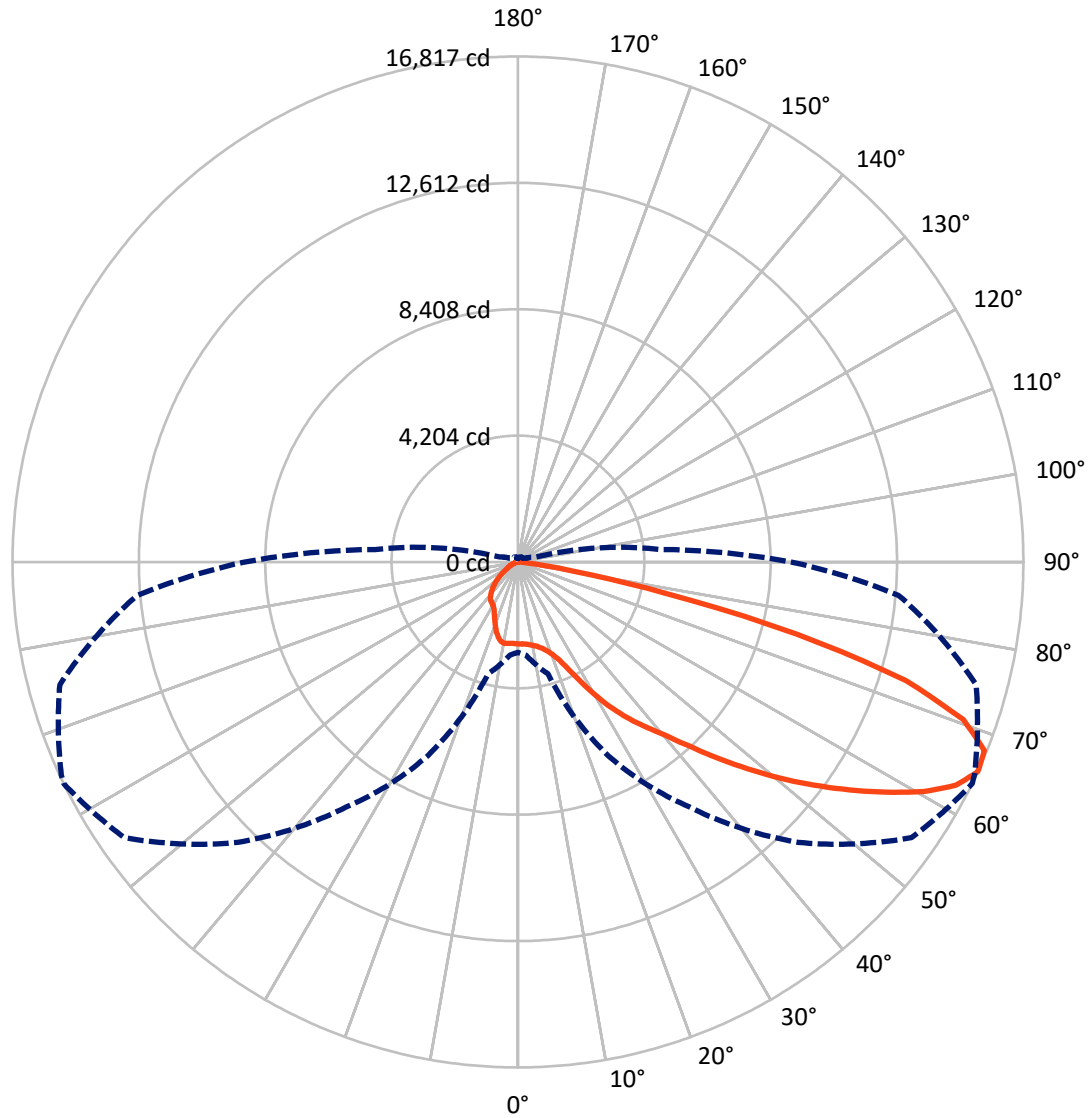
✕ Max cd  
 - - - 1/2 Max cd



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	3133.4	0.0	3133.4
	% Fixture	13.4	0.0	13.4
<b>Street Side</b>	Lumens	20297.6	0.0	20297.6
	% Fixture	86.6	0.0	86.6
<b>Total</b>	Lumens	23431.0	0.0	23431.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	251.4	1.1
10°-20°	682.0	2.9
20°-30°	1292.3	5.5
30°-40°	2614.9	11.2
40°-50°	4454.5	19.0
50°-60°	6057.8	25.9
60°-70°	5688.6	24.3
70°-80°	2279.1	9.7
80°-90°	110.4	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°	23431.0	100.0
0°-180°	23431.0	100.0

**Coefficient of Utilization**



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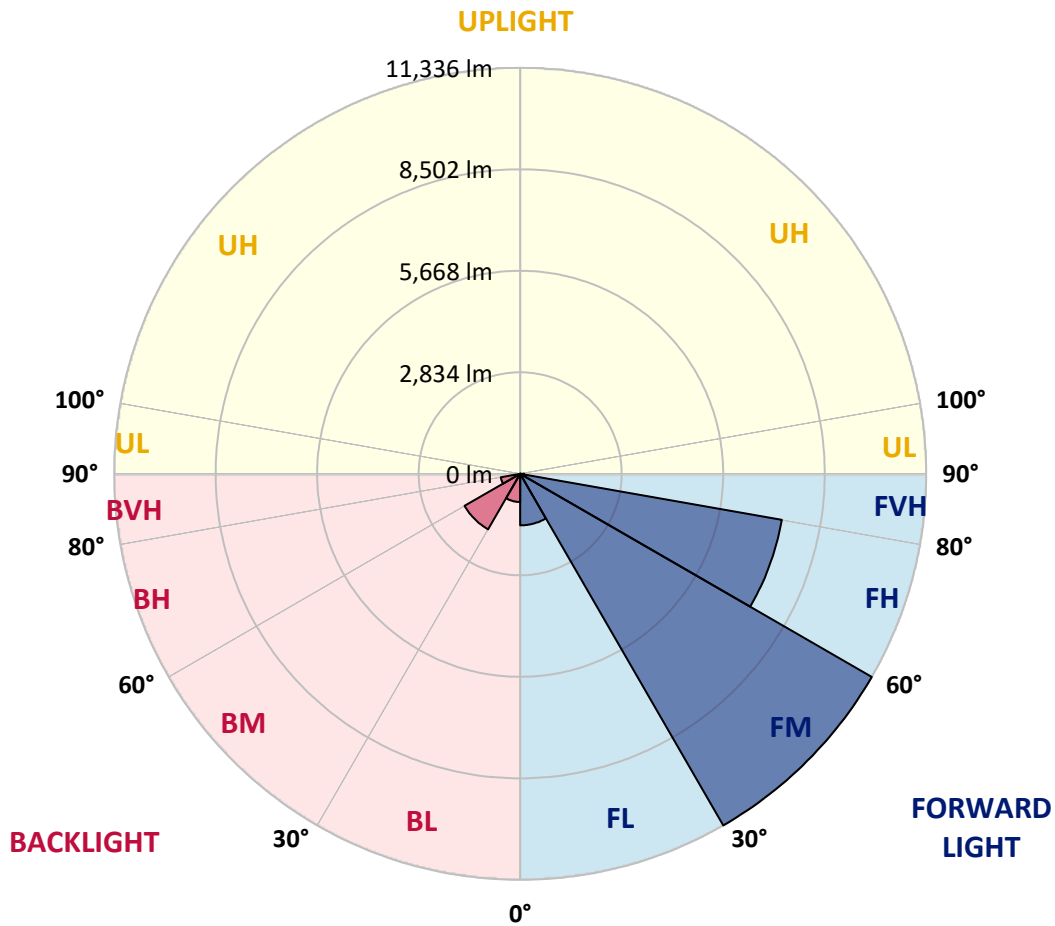
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1438.9	6.1			
FM (30°-60°)	11335.9	48.4			
FH (60°-80°)	7417.7	31.7			G3/7500
FVH (80°-90°)	105.0	0.4			G2/225
BL (0°-30°)	786.7	3.4	B2/1000		
BM (30°-60°)	1791.4	7.6	B2/2500		
BH (60°-80°)	550.0	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°	2725.3	2725.3	2725.3	2725.3	2725.3	2725.3	2725.3	2725.3	2725.3	2725.3	2725.3
2.5°	2715.8	2734.7	2730.0	2725.3	2723.7	2726.8	2728.4	2726.8	2726.8	2726.8	2728.4
5°	2664.0	2679.7	2679.7	2690.7	2706.4	2725.3	2739.4	2742.5	2745.7	2750.4	2748.8
7.5°	2565.1	2577.6	2587.0	2623.2	2662.4	2712.7	2755.1	2777.1	2780.2	2797.5	2803.8
10°	2497.5	2513.2	2528.9	2566.6	2623.2	2698.6	2770.8	2824.2	2832.1	2872.9	2891.8
12.5°	2494.4	2510.1	2530.5	2571.3	2637.3	2717.4	2805.4	2882.3	2896.5	2956.2	2995.4
15°	2527.4	2546.2	2565.1	2615.3	2686.0	2783.4	2877.6	2973.4	2987.6	3072.4	3114.8
17.5°	2594.9	2620.0	2634.2	2684.4	2759.8	2868.2	2992.3	3102.3	3114.8	3213.8	3267.2
20°	2728.4	2758.3	2763.0	2803.8	2877.6	2993.9	3141.5	3278.2	3293.9	3407.0	3466.7
22.5°	3004.9	3047.3	3009.6	3030.0	3096.0	3212.2	3372.4	3545.2	3567.2	3696.0	3749.4
25°	3491.8	3551.5	3454.1	3419.5	3447.8	3568.8	3769.8	3988.2	4013.3	4117.0	4143.7
27.5°	4448.4	4371.4	4223.8	4079.3	3994.4	4063.6	4289.7	4559.9	4591.3	4691.9	4660.4
30°	5499.2	5431.7	5232.2	4911.8	4710.7	4699.7	4908.6	5210.2	5246.3	5342.2	5246.3
32.5°	6551.6	6487.2	6270.5	5876.2	5527.5	5354.7	5499.2	5833.8	5852.7	5913.9	5772.5
35°	7586.8	7520.8	7304.0	6900.3	6471.5	6078.8	6050.6	6427.5	6433.8	6498.2	6287.8
37.5°	8628.2	8573.2	8342.3	7946.5	7523.9	6982.0	6719.7	6989.9	6997.7	7060.6	6842.2
40°	9371.2	9394.7	9236.1	8929.8	8566.9	7974.7	7470.5	7588.3	7541.2	7646.5	7516.1
42.5°	10008.9	10056.0	9917.8	9763.8	9553.4	9031.9	8400.4	8380.0	8304.6	8361.2	8226.1
45°	10560.2	10599.5	10475.4	10439.3	10434.6	10068.6	9416.7	9294.2	9188.9	9178.0	9016.2
47.5°	10762.8	10838.2	10891.6	11012.6	11248.2	11094.3	10467.5	10277.5	10159.7	10073.3	9817.3
50°	10839.8	10919.9	11102.1	11454.0	12011.6	12077.6	11513.7	11300.0	11155.5	10998.5	10621.5
52.5°	10736.1	10879.1	11124.1	11716.3	12525.2	12866.1	12517.4	12330.5	12165.5	11909.5	11350.3
55°	10125.1	10268.1	10769.1	11713.2	12781.3	13419.0	13466.1	13382.9	13197.5	12793.8	11939.3
57.5°	8837.1	9049.1	9842.4	11314.2	12776.6	13894.9	14396.0	14455.7	14248.4	13670.3	12402.7
60°	7052.7	7340.2	8307.7	10429.8	12382.3	14152.5	15211.2	15509.7	15289.8	14534.2	12778.1
62.5°	4921.2	5254.2	6169.9	9044.4	11480.7	13967.2	15806.6	16357.9	16191.4	15307.1	12922.6
65°	3001.7	3108.5	3846.8	7117.1	9947.6	13191.2	15990.3	16816.6	16761.6	15779.9	12709.0
67.5°	1999.6	2089.1	2301.2	4880.4	7721.9	11640.9	15550.5	16736.4	16752.2	15702.9	11926.8
70°	1204.8	1281.7	1420.0	2838.4	5004.4	9214.1	14188.7	15715.5	15806.6	14674.0	10444.0
72.5°	496.4	548.2	673.9	1286.5	2591.8	5847.9	11298.5	13492.8	13704.9	12338.3	8015.6
75°	281.2	307.9	395.8	645.6	1124.7	2725.3	6843.8	9578.5	9891.1	8504.1	4822.2
77.5°	186.9	199.5	256.0	417.8	633.0	929.9	2924.8	4990.3	5587.2	4644.7	2087.5
80°	125.7	136.7	175.9	279.6	411.5	399.0	931.5	1848.8	2274.5	1595.9	508.9
82.5°	84.8	86.4	125.7	183.8	260.7	193.2	274.9	574.9	722.5	461.8	193.2
85°	48.7	47.1	92.7	106.8	116.2	80.1	83.3	172.8	226.2	194.8	110.0
87.5°	6.3	9.4	36.1	28.3	15.7	17.3	17.3	29.8	44.0	47.1	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°	2725.3	2725.3	2725.3	2725.3	2725.3	2725.3	2725.3	2725.3	2725.3	2725.3	2725.3
2.5°	2728.4	2726.8	2722.1	2717.4	2706.4	2700.1	2703.3	2700.1	2698.6	2700.1	2706.4
5°	2748.8	2744.1	2731.6	2715.8	2693.9	2667.2	2649.9	2624.7	2601.2	2587.0	2590.2
7.5°	2803.8	2799.1	2781.8	2737.8	2667.2	2555.6	2453.5	2364.0	2296.5	2257.2	2258.8
10°	2891.8	2883.9	2857.2	2759.8	2574.5	2331.0	2128.4	1960.3	1850.4	1798.5	1793.8
12.5°	2995.4	2986.0	2938.9	2739.4	2398.6	2018.4	1738.8	1551.9	1449.8	1404.3	1399.5
15°	3118.0	3105.4	3012.7	2642.0	2142.5	1672.9	1416.8	1277.0	1211.1	1170.2	1171.8
17.5°	3270.3	3248.3	3067.7	2495.9	1864.5	1409.0	1218.9	1113.7	1055.6	1016.3	1013.1
20°	3468.2	3432.1	3111.7	2321.6	1608.5	1242.5	1085.4	997.4	953.5	918.9	912.6
22.5°	3744.7	3692.9	3165.1	2133.1	1427.8	1127.8	986.4	922.0	885.9	846.6	840.4
25°	4087.1	4025.9	3231.1	1958.7	1303.7	1028.8	914.2	860.8	818.4	772.8	768.1
27.5°	4566.2	4456.2	3309.6	1815.8	1196.9	944.0	848.2	788.5	739.8	702.1	694.3
30°	5100.3	4919.6	3378.7	1729.4	1099.5	865.5	761.8	702.1	656.6	629.9	625.2
32.5°	5606.0	5361.0	3424.3	1691.7	1011.6	776.0	667.6	603.2	568.6	560.8	565.5
35°	6083.6	5760.0	3419.5	1655.6	933.0	686.4	574.9	508.9	482.2	486.9	486.9
37.5°	6633.3	6185.7	3386.6	1599.0	868.6	604.7	494.8	436.7	413.1	414.7	421.0
40°	7272.6	6677.3	3366.1	1492.2	797.9	529.3	428.8	381.7	364.4	358.1	356.6
42.5°	7954.3	7153.2	3369.3	1371.3	710.0	461.8	383.3	344.0	328.3	323.6	322.0
45°	8639.2	7607.2	3374.0	1245.6	617.3	410.0	350.3	317.3	307.9	301.6	301.6
47.5°	9283.2	7993.6	3286.0	1110.5	526.2	370.7	323.6	301.6	293.7	285.9	285.9
50°	9883.2	8251.2	3074.0	953.5	453.9	339.3	303.2	287.4	279.6	271.7	271.7
52.5°	10349.7	8292.0	2723.7	791.7	403.7	315.7	290.6	276.5	267.0	259.2	257.6
55°	10557.1	8036.0	2225.8	640.9	364.4	295.3	278.0	263.9	252.9	245.0	243.5
57.5°	10503.7	7497.2	1735.7	515.2	326.7	274.9	262.3	252.9	240.3	227.8	226.2
60°	10241.4	6776.3	1308.4	428.8	292.2	252.9	245.0	237.2	219.9	201.1	197.9
62.5°	9787.4	5869.9	933.0	355.0	254.5	227.8	224.6	218.3	193.2	158.6	155.5
65°	9093.1	4768.8	628.3	295.3	218.3	199.5	201.1	190.1	157.1	117.8	114.7
67.5°	8078.4	3487.1	402.1	241.9	182.2	166.5	168.1	161.8	133.5	100.5	95.8
70°	6785.7	2309.0	262.3	183.8	146.1	128.8	138.2	139.8	113.1	81.7	78.5
72.5°	4974.6	1363.4	183.8	136.7	106.8	89.5	113.1	116.2	91.1	61.3	58.1
75°	2835.2	647.2	138.2	99.0	66.0	62.8	88.0	88.0	62.8	40.8	37.7
77.5°	1190.6	270.2	97.4	64.4	37.7	36.1	59.7	55.0	31.4	18.8	18.8
80°	344.0	120.9	51.8	31.4	15.7	14.1	23.6	17.3	7.9	3.1	3.1
82.5°	135.1	53.4	20.4	12.6	6.3	6.3	3.1	0.0	0.0	0.0	0.0
85°	80.1	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)