

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: P885098

Luminaire Tested: **NAV-SB6B-722-U-T3-HSS**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P885098
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-722-U-T3-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 2200K, 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: 21361 lumens
Efficiency: N/A
Efficacy: 96.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

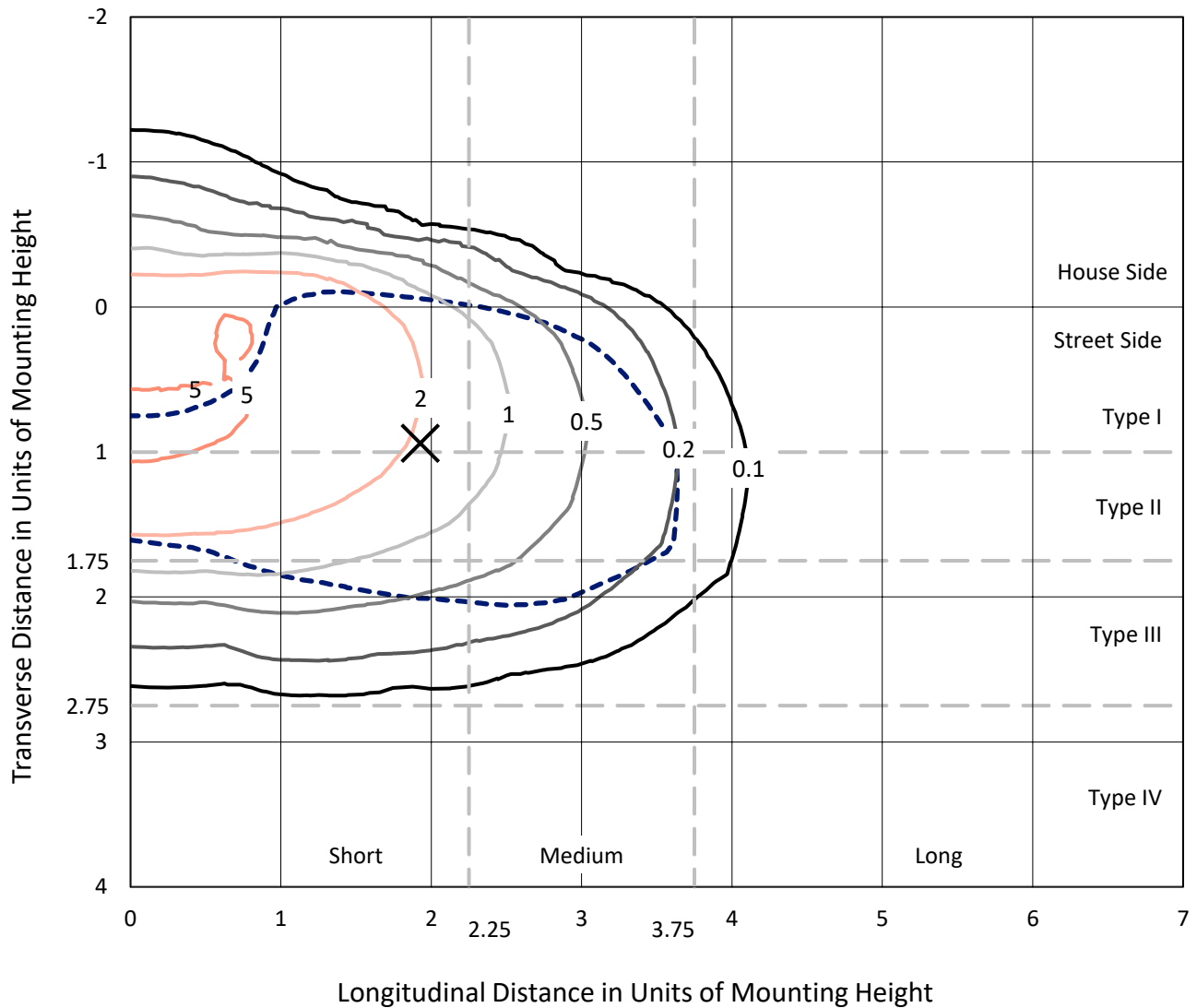
Input Watts (W): 220.4
Input Voltage (V): 120.0
Input Current (Ain): 1.838
Voltage Rise (V): NR
Power Factor: 0.995
Total Harmonic Distortion (THDi): 8.657
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

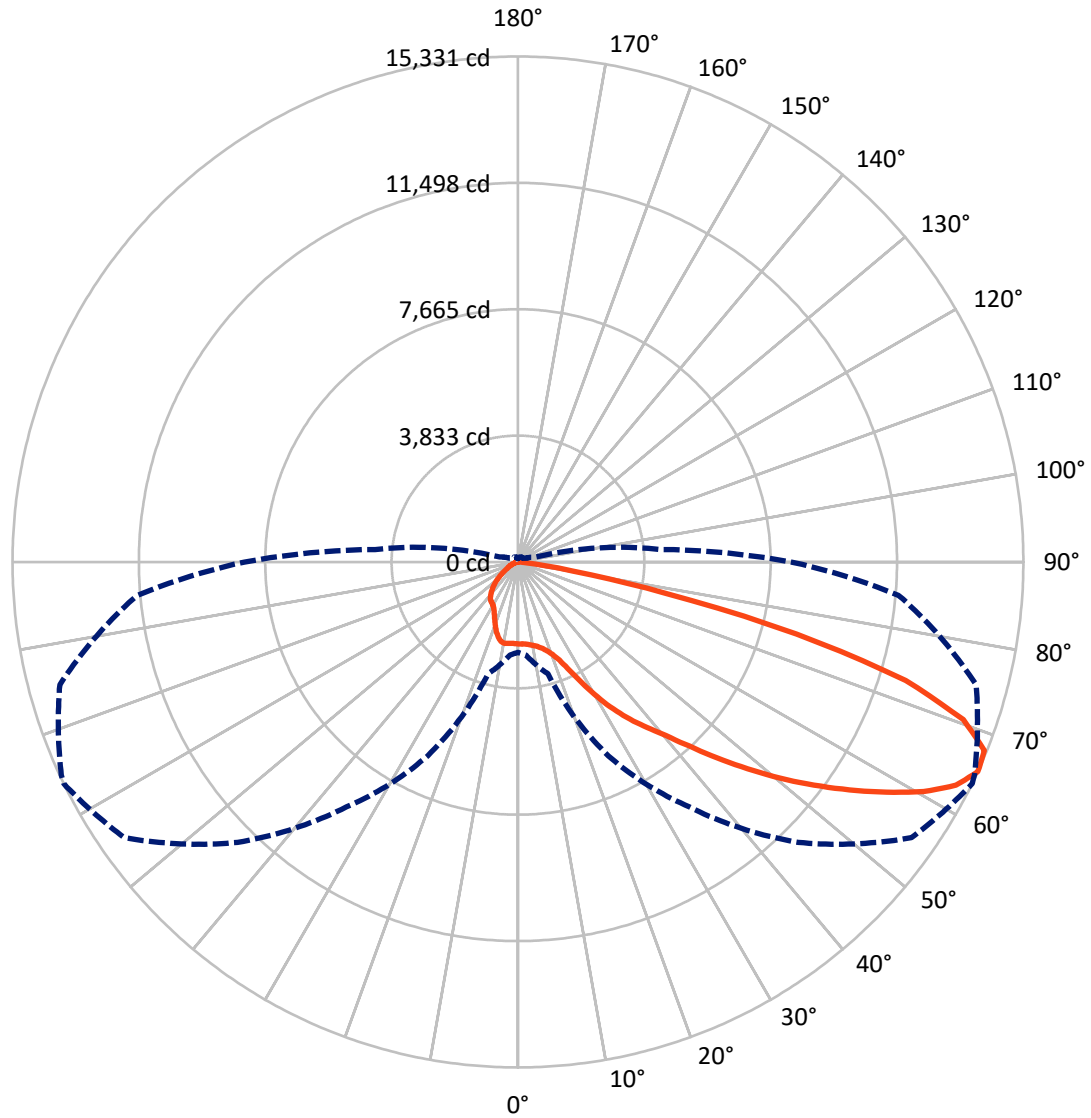
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.2 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
House Side	Lumens	2856.6	0.0	2856.6
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	18504.4	0.0	18504.4
	% Fixture	86.6	0.0	86.6
Total	Lumens	21361.0	0.0	21361.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	229.2	1.1
10°-20°	621.7	2.9
20°-30°	1178.1	5.5
30°-40°	2383.9	11.2
40°-50°	4061.0	19.0
50°-60°	5522.6	25.9
60°-70°	5186.0	24.3
70°-80°	2077.7	9.7
80°-90°	100.7	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°	21361.0	100.0
0°-180°	21361.0	100.0

Coefficient of Utilization



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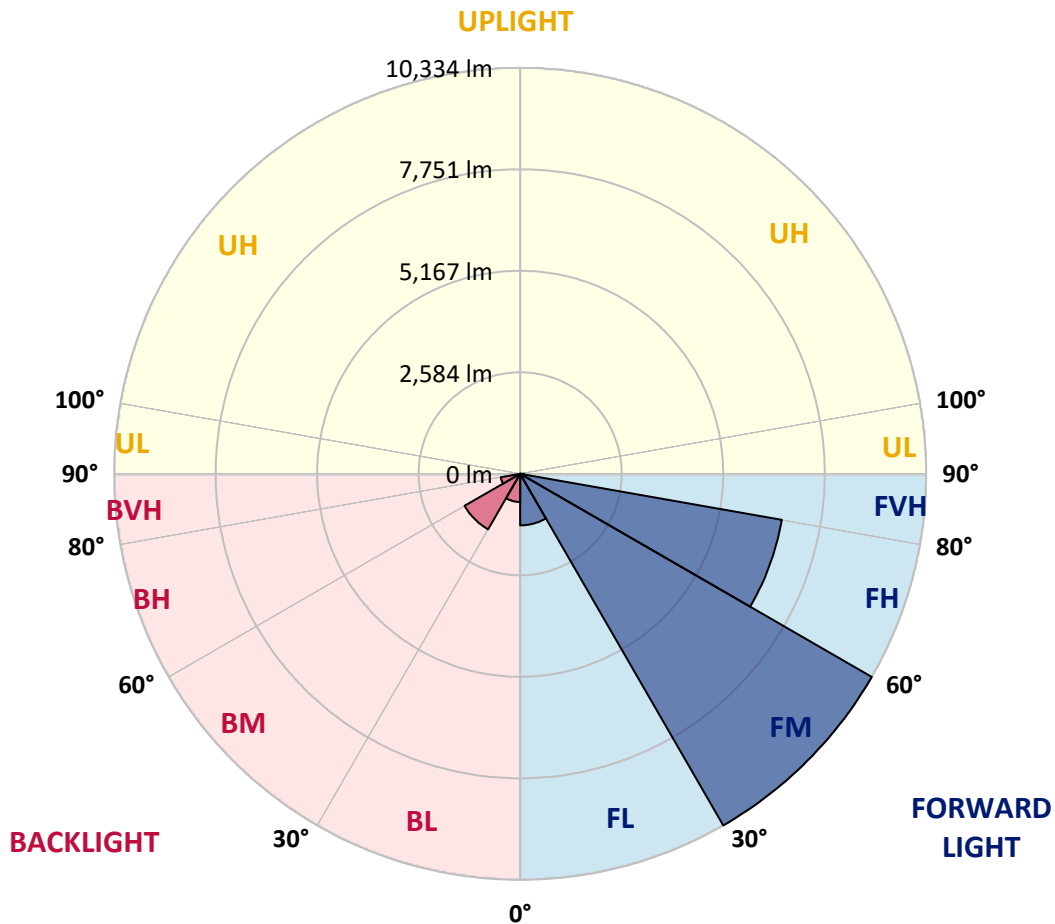
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1311.8	6.1			
FM (30°-60°)	10334.4	48.4			
FH (60°-80°)	6762.4	31.7			G3/7500
FVH (80°-90°)	95.7	0.4			G1/100
BL (0°-30°)	717.2	3.4	B2/1000		
BM (30°-60°)	1633.1	7.6	B2/2500		
BH (60°-80°)	501.4	2.3	B2/1000		G2/1000
BVH (80°-90°)	4.9	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°	2484.5	2484.5	2484.5	2484.5	2484.5	2484.5	2484.5	2484.5	2484.5	2484.5	2484.5
2.5°	2475.9	2493.1	2488.8	2484.5	2483.1	2485.9	2487.4	2485.9	2485.9	2485.9	2487.4
5°	2428.7	2443.0	2443.0	2453.0	2467.3	2484.5	2497.4	2500.3	2503.1	2507.4	2506.0
7.5°	2338.4	2349.9	2358.5	2391.4	2427.2	2473.1	2511.7	2531.8	2534.6	2550.4	2556.1
10°	2276.9	2291.2	2305.5	2339.9	2391.4	2460.2	2526.0	2574.7	2581.9	2619.1	2636.3
12.5°	2274.0	2288.3	2306.9	2344.2	2404.3	2477.3	2557.5	2627.7	2640.6	2695.0	2730.8
15°	2304.1	2321.3	2338.4	2384.3	2448.7	2537.5	2623.4	2710.8	2723.6	2801.0	2839.6
17.5°	2365.7	2388.6	2401.5	2447.3	2516.0	2614.8	2727.9	2828.2	2839.6	2929.9	2978.5
20°	2487.4	2514.6	2518.9	2556.1	2623.4	2729.4	2864.0	2988.6	3002.9	3106.0	3160.4
22.5°	2739.4	2778.1	2743.7	2762.3	2822.5	2928.4	3074.5	3232.0	3252.1	3369.5	3418.2
25°	3183.3	3237.7	3149.0	3117.4	3143.2	3253.5	3436.8	3635.8	3658.7	3753.3	3777.6
27.5°	4055.4	3985.2	3850.6	3718.9	3641.6	3704.6	3910.8	4157.1	4185.7	4277.4	4248.7
30°	5013.4	4951.8	4770.0	4477.8	4294.5	4284.5	4475.0	4749.9	4782.9	4870.2	4782.9
32.5°	5972.8	5914.1	5716.5	5357.1	5039.2	4881.7	5013.4	5318.4	5335.6	5391.4	5262.6
35°	6916.5	6856.4	6658.8	6290.7	5899.8	5541.8	5516.0	5859.7	5865.4	5924.2	5732.3
37.5°	7865.9	7815.8	7605.3	7244.4	6859.2	6365.2	6126.1	6372.4	6379.5	6436.8	6237.8
40°	8543.3	8564.7	8420.1	8140.9	7810.1	7270.2	6810.6	6918.0	6875.0	6970.9	6852.1
42.5°	9124.7	9167.6	9041.6	8901.3	8709.4	8234.0	7658.3	7639.7	7570.9	7622.5	7499.3
45°	9627.3	9663.1	9550.0	9517.0	9512.7	9179.1	8584.8	8473.1	8377.2	8367.1	8219.6
47.5°	9812.0	9880.7	9929.4	10039.7	10254.5	10114.2	9542.8	9369.5	9262.1	9183.4	8949.9
50°	9882.2	9955.2	10121.3	10442.1	10950.4	11010.6	10496.5	10301.8	10170.0	10026.8	9683.1
52.5°	9787.7	9918.0	10141.4	10681.2	11418.7	11729.4	11411.5	11241.1	11090.8	10857.4	10347.6
55°	9230.6	9360.9	9817.7	10678.4	11652.1	12233.5	12276.5	12200.6	12031.6	11663.6	10884.6
57.5°	8056.4	8249.7	8972.9	10314.6	11647.8	12667.4	13124.2	13178.6	12989.6	12462.6	11307.0
60°	6429.6	6691.7	7573.8	9508.4	11288.4	12902.2	13867.4	14139.5	13939.0	13250.2	11649.3
62.5°	4486.4	4790.0	5624.9	8245.4	10466.4	12733.3	14410.1	14912.8	14761.0	13954.8	11781.0
65°	2736.5	2833.9	3506.9	6488.4	9068.8	12025.9	14577.7	15330.9	15280.8	14385.8	11586.2
67.5°	1822.9	1904.5	2097.9	4449.2	7039.7	10612.5	14176.7	15257.9	15272.2	14315.6	10873.1
70°	1098.3	1168.5	1294.5	2587.6	4562.3	8400.1	12935.2	14327.1	14410.1	13377.7	9521.3
72.5°	452.5	499.8	614.3	1172.8	2362.8	5331.3	10300.3	12300.8	12494.1	11248.3	7307.5
75°	256.3	280.7	360.9	588.5	1025.3	2484.5	6239.2	8732.3	9017.3	7752.8	4396.2
77.5°	170.4	181.9	233.4	380.9	577.1	847.7	2666.4	4549.4	5093.6	4234.4	1903.1
80°	114.6	124.6	160.4	254.9	375.2	363.7	849.2	1685.5	2073.5	1454.9	464.0
82.5°	77.3	78.8	114.6	167.5	237.7	176.1	250.6	524.1	658.7	421.0	176.1
85°	44.4	43.0	84.5	97.4	106.0	73.0	75.9	157.5	206.2	177.6	100.2
87.5°	5.7	8.6	32.9	25.8	14.3	15.8	15.8	27.2	40.1	43.0	21.5
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°	2484.5	2484.5	2484.5	2484.5	2484.5	2484.5	2484.5	2484.5	2484.5	2484.5	2484.5
2.5°	2487.4	2485.9	2481.6	2477.3	2467.3	2461.6	2464.5	2461.6	2460.2	2461.6	2467.3
5°	2506.0	2501.7	2490.2	2475.9	2455.9	2431.5	2415.8	2392.9	2371.4	2358.5	2361.4
7.5°	2556.1	2551.8	2536.1	2496.0	2431.5	2329.9	2236.8	2155.1	2093.6	2057.8	2059.2
10°	2636.3	2629.1	2604.8	2516.0	2347.0	2125.1	1940.3	1787.1	1686.9	1639.6	1635.3
12.5°	2730.8	2722.2	2679.3	2497.4	2186.7	1840.1	1585.2	1414.8	1321.7	1280.2	1275.9
15°	2842.5	2831.0	2746.6	2408.6	1953.2	1525.1	1291.7	1164.2	1104.1	1066.8	1068.3
17.5°	2981.4	2961.4	2796.7	2275.4	1699.8	1284.5	1111.2	1015.3	962.3	926.5	923.6
20°	3161.8	3128.9	2836.8	2116.5	1466.4	1132.7	989.5	909.3	869.2	837.7	832.0
22.5°	3413.9	3366.6	2885.5	1944.6	1301.7	1028.2	899.3	840.6	807.6	771.8	766.1
25°	3726.0	3670.2	2945.6	1785.7	1188.6	938.0	833.4	784.7	746.1	704.5	700.2
27.5°	4162.8	4062.6	3017.2	1655.4	1091.2	860.6	773.3	718.9	674.5	640.1	632.9
30°	4649.7	4485.0	3080.2	1576.6	1002.4	789.0	694.5	640.1	598.6	574.2	569.9
32.5°	5110.8	4887.4	3121.7	1542.3	922.2	707.4	608.6	549.9	518.4	511.2	515.5
35°	5546.1	5251.1	3117.4	1509.3	850.6	625.8	524.1	464.0	439.6	443.9	443.9
37.5°	6047.3	5639.2	3087.4	1457.8	791.9	551.3	451.1	398.1	376.6	378.0	383.8
40°	6630.1	6087.4	3068.8	1360.4	727.5	482.6	390.9	348.0	332.2	326.5	325.1
42.5°	7251.6	6521.3	3071.6	1250.1	647.3	421.0	349.4	313.6	299.3	295.0	293.6
45°	7876.0	6935.1	3075.9	1135.6	562.8	373.7	319.3	289.3	280.7	274.9	274.9
47.5°	8463.1	7287.4	2995.7	1012.4	479.7	338.0	295.0	274.9	267.8	260.6	260.6
50°	9010.1	7522.3	2802.4	869.2	413.8	309.3	276.4	262.1	254.9	247.7	247.7
52.5°	9435.4	7559.5	2483.1	721.7	368.0	287.8	264.9	252.0	243.4	236.3	234.8
55°	9624.4	7326.1	2029.1	584.3	332.2	269.2	253.5	240.6	230.6	223.4	222.0
57.5°	9575.7	6834.9	1582.4	469.7	297.9	250.6	239.1	230.6	219.1	207.6	206.2
60°	9336.6	6177.6	1192.8	390.9	266.4	230.6	223.4	216.2	200.5	183.3	180.4
62.5°	8922.7	5351.4	850.6	323.6	232.0	207.6	204.8	199.0	176.1	144.6	141.8
65°	8289.8	4347.5	572.8	269.2	199.0	181.9	183.3	173.3	143.2	107.4	104.5
67.5°	7364.7	3179.0	366.6	220.5	166.1	151.8	153.2	147.5	121.7	91.6	87.4
70°	6186.2	2105.0	239.1	167.5	133.2	117.4	126.0	127.4	103.1	74.5	71.6
72.5°	4535.1	1243.0	167.5	124.6	97.4	81.6	103.1	106.0	83.1	55.8	53.0
75°	2584.7	590.0	126.0	90.2	60.1	57.3	80.2	80.2	57.3	37.2	34.4
77.5°	1085.4	246.3	88.8	58.7	34.4	32.9	54.4	50.1	28.6	17.2	17.2
80°	313.6	110.3	47.3	28.6	14.3	12.9	21.5	15.8	7.2	2.9	2.9
82.5°	123.2	48.7	18.6	11.5	5.7	5.7	2.9	0.0	0.0	0.0	0.0
85°	73.0	20.0	8.6	4.3	1.4	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	18.6	4.3	2.9	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)