

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: P884588

Luminaire Tested: **NAV-SB5C-722-U-T3-HSS**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P884588
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-SB5C-722-U-T3-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(5) 70 CRI, 2200K, 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: 23750 lumens
Efficiency: N/A
Efficacy: 95.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

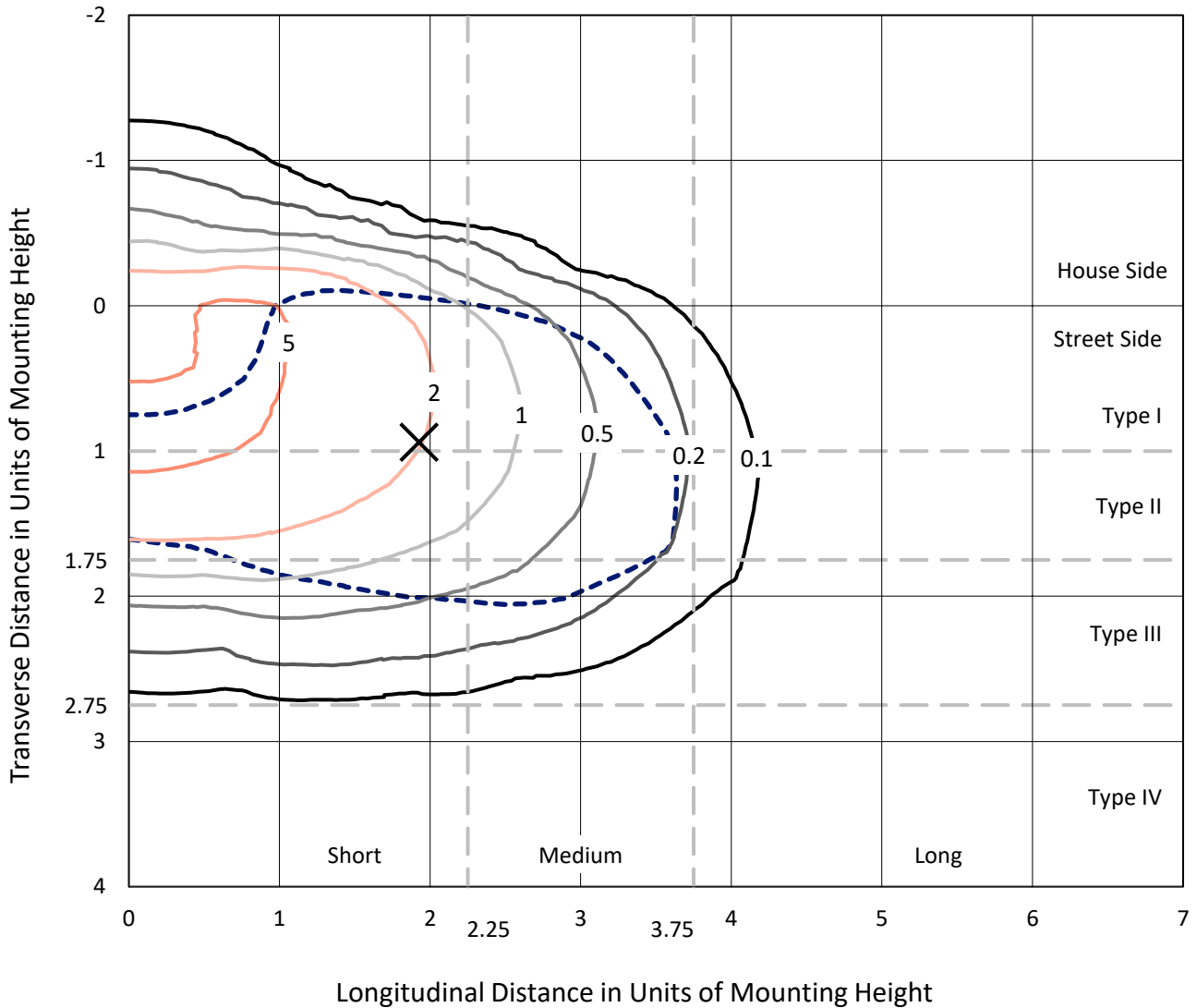
Input Watts (W): 249.5
Input Voltage (V): 120.0
Input Current (Ain): 2.116
Voltage Rise (V): NR
Power Factor: 0.996
Total Harmonic Distortion (THDi): 7.885
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

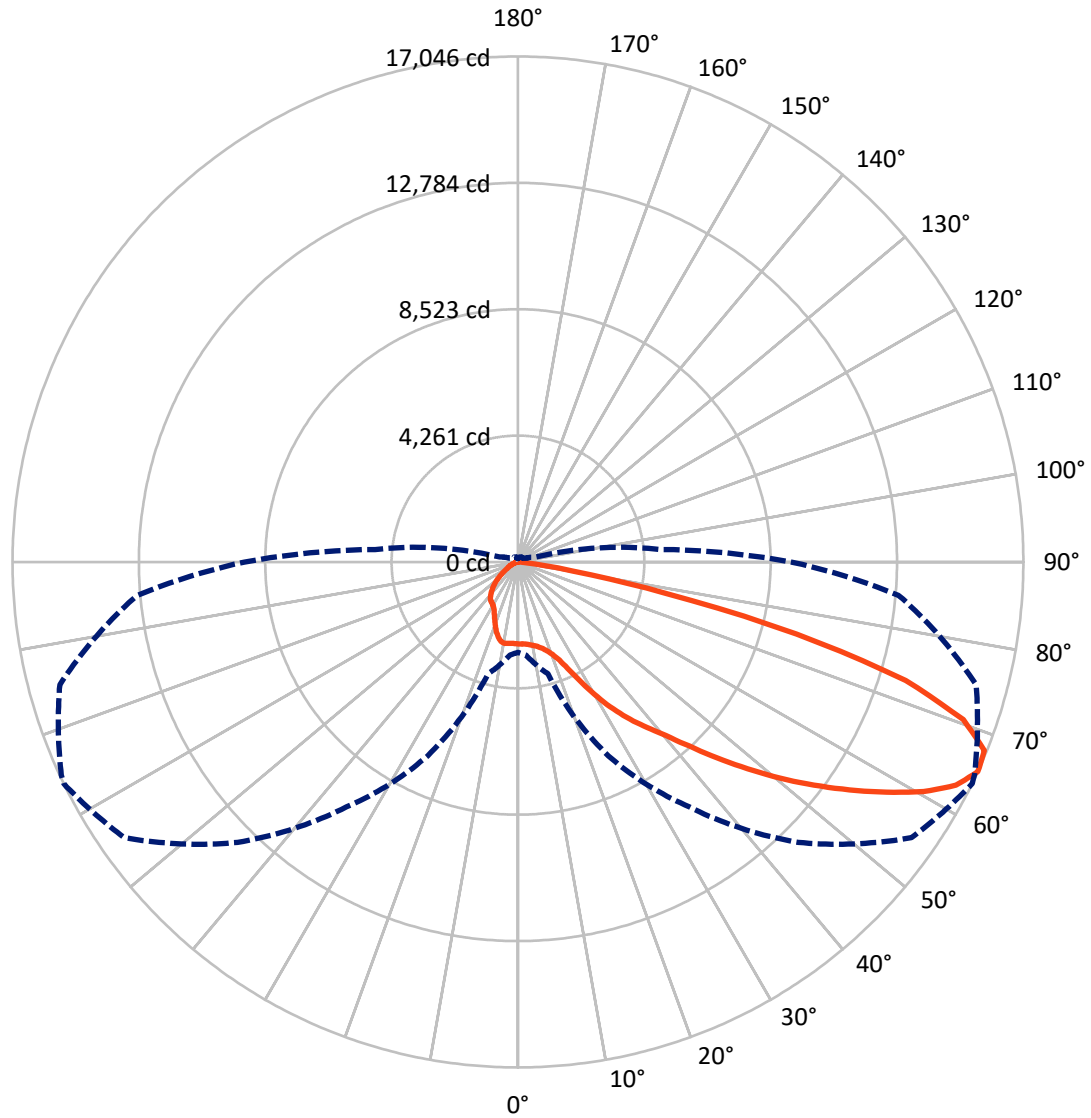
✕ Max cd
 - - - 1/2 Max cd



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
House Side	Lumens	3176.1	0.0	3176.1
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	20573.9	0.0	20573.9
	% Fixture	86.6	0.0	86.6
Total	Lumens	23750.0	0.0	23750.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	254.9	1.1
10°-20°	691.2	2.9
20°-30°	1309.8	5.5
30°-40°	2650.5	11.2
40°-50°	4515.2	19.0
50°-60°	6140.3	25.9
60°-70°	5766.0	24.3
70°-80°	2310.1	9.7
80°-90°	111.9	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°	23750.0	100.0
0°-180°	23750.0	100.0

Coefficient of Utilization



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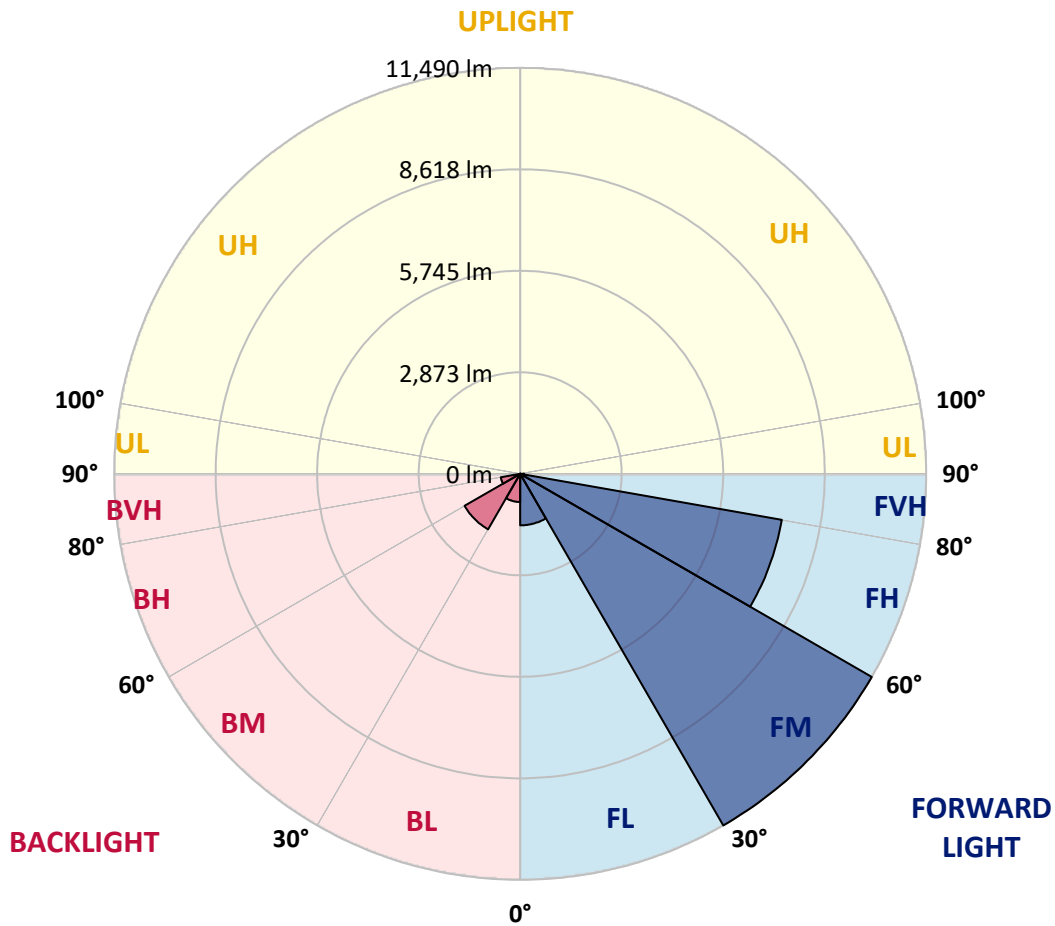
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1458.5	6.1			
FM (30°-60°)	11490.2	48.4			
FH (60°-80°)	7518.7	31.7			G4/12000
FVH (80°-90°)	106.5	0.4			G2/225
BL (0°-30°)	797.4	3.4	B2/1000		
BM (30°-60°)	1815.8	7.6	B2/2500		
BH (60°-80°)	557.5	2.3	B2/1000		G2/1000
BVH (80°-90°)	5.5	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-G4

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	2762.4	2762.4	2762.4	2762.4	2762.4	2762.4	2762.4	2762.4	2762.4	2762.4	2762.4
2.5°	2752.8	2771.9	2767.1	2762.4	2760.8	2764.0	2765.6	2764.0	2764.0	2764.0	2765.6
5°	2700.3	2716.2	2716.2	2727.3	2743.3	2762.4	2776.7	2779.9	2783.1	2787.8	2786.3
7.5°	2600.0	2612.7	2622.3	2658.9	2698.7	2749.6	2792.6	2814.9	2818.1	2835.6	2842.0
10°	2531.5	2547.4	2563.4	2601.6	2658.9	2735.3	2808.5	2862.7	2870.6	2912.0	2931.1
12.5°	2528.3	2544.2	2564.9	2606.3	2673.2	2754.4	2843.6	2921.6	2935.9	2996.4	3036.2
15°	2561.8	2580.9	2600.0	2650.9	2722.6	2821.3	2916.8	3013.9	3028.3	3114.2	3157.2
17.5°	2630.2	2655.7	2670.0	2721.0	2797.4	2907.3	3033.0	3144.5	3157.2	3257.5	3311.7
20°	2765.6	2795.8	2800.6	2842.0	2916.8	3034.6	3184.3	3322.8	3338.7	3453.4	3513.9
22.5°	3045.8	3088.8	3050.5	3071.2	3138.1	3255.9	3418.3	3593.5	3615.8	3746.3	3800.5
25°	3539.3	3599.8	3501.1	3466.1	3494.8	3617.4	3821.1	4042.5	4067.9	4173.0	4200.1
27.5°	4509.0	4430.9	4281.3	4134.8	4048.8	4118.9	4348.1	4622.0	4653.8	4755.7	4723.9
30°	5574.1	5505.6	5303.4	4978.6	4774.8	4763.7	4975.5	5281.1	5317.8	5414.9	5317.8
32.5°	6640.8	6575.6	6355.8	5956.2	5602.8	5427.6	5574.1	5913.2	5932.3	5994.4	5851.1
35°	7690.1	7623.2	7403.5	6994.3	6559.6	6161.6	6132.9	6515.1	6521.4	6586.7	6373.4
37.5°	8745.7	8689.9	8455.9	8054.7	7626.4	7077.1	6811.2	7085.0	7093.0	7156.7	6935.4
40°	9498.7	9522.6	9361.8	9051.3	8683.6	8083.3	7572.2	7691.7	7643.9	7750.6	7618.4
42.5°	10145.1	10192.9	10052.8	9896.8	9683.4	9154.8	8514.8	8494.1	8417.7	8475.0	8338.1
45°	10704.0	10743.8	10618.0	10581.4	10576.6	10205.6	9544.9	9420.7	9314.0	9302.9	9138.9
47.5°	10909.4	10985.8	11039.9	11162.5	11401.4	11245.3	10610.1	10417.4	10298.0	10210.4	9950.9
50°	10987.4	11068.6	11253.3	11609.9	12175.1	12242.0	11670.4	11453.9	11307.4	11148.2	10766.1
52.5°	10882.3	11027.2	11275.6	11875.8	12695.8	13041.3	12687.8	12498.3	12331.2	12071.6	11504.8
55°	10263.0	10407.9	10915.7	11872.6	12955.3	13601.7	13649.5	13565.1	13377.2	12968.0	12101.9
57.5°	8957.4	9172.3	9976.4	11468.2	12950.5	14084.1	14592.0	14652.5	14442.3	13856.4	12571.6
60°	7148.7	7440.1	8420.9	10571.8	12550.9	14345.2	15418.3	15720.8	15497.9	14732.1	12952.1
62.5°	4988.2	5325.7	6253.9	9167.6	11637.0	14157.4	16021.8	16580.6	16411.8	15515.5	13098.6
65°	3042.6	3150.9	3899.2	7214.0	10083.1	13370.8	16208.0	17045.5	16989.8	15994.7	12882.0
67.5°	2026.8	2117.6	2332.5	4946.8	7827.0	11799.4	15762.2	16964.3	16980.2	15916.7	12089.2
70°	1221.2	1299.2	1439.3	2877.0	5072.6	9339.5	14381.8	15929.4	16021.8	14873.8	10586.2
72.5°	503.1	555.7	683.0	1304.0	2627.0	5927.6	11452.3	13676.5	13891.5	12506.3	8124.7
75°	285.0	312.1	401.2	654.4	1140.0	2762.4	6937.0	9708.9	10025.7	8619.9	4887.9
77.5°	189.5	202.2	259.5	423.5	641.6	942.5	2964.6	5058.2	5663.3	4708.0	2116.0
80°	127.4	138.5	178.3	283.4	417.1	404.4	944.1	1874.0	2305.4	1617.6	515.9
82.5°	86.0	87.6	127.4	186.3	264.3	195.8	278.6	582.7	732.4	468.1	195.8
85°	49.4	47.8	93.9	108.3	117.8	81.2	84.4	175.1	229.3	197.4	111.5
87.5°	6.4	9.6	36.6	28.7	15.9	17.5	17.5	30.3	44.6	47.8	23.9
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°	2762.4	2762.4	2762.4	2762.4	2762.4	2762.4	2762.4	2762.4	2762.4	2762.4	2762.4
2.5°	2765.6	2764.0	2759.2	2754.4	2743.3	2736.9	2740.1	2736.9	2735.3	2736.9	2743.3
5°	2786.3	2781.5	2768.7	2752.8	2730.5	2703.5	2685.9	2660.5	2636.6	2622.3	2625.4
7.5°	2842.0	2837.2	2819.7	2775.1	2703.5	2590.4	2486.9	2396.2	2327.7	2287.9	2289.5
10°	2931.1	2923.2	2896.1	2797.4	2609.5	2362.7	2157.4	1987.0	1875.5	1823.0	1818.2
12.5°	3036.2	3026.7	2978.9	2776.7	2431.2	2045.9	1762.5	1573.0	1469.5	1423.4	1418.6
15°	3160.4	3147.7	3053.7	2678.0	2171.7	1695.6	1436.1	1294.4	1227.5	1186.1	1187.7
17.5°	3314.8	3292.6	3109.5	2529.9	1889.9	1428.2	1235.5	1128.8	1069.9	1030.1	1026.9
20°	3515.5	3478.8	3154.0	2353.2	1630.4	1259.4	1100.2	1011.0	966.4	931.4	925.0
22.5°	3795.7	3743.1	3208.2	2162.1	1447.3	1143.2	999.9	934.6	898.0	858.2	851.8
25°	4142.8	4080.7	3275.0	1985.4	1321.5	1042.9	926.6	872.5	829.5	783.3	778.6
27.5°	4628.4	4516.9	3354.6	1840.5	1213.2	956.9	859.8	799.3	749.9	711.7	703.7
30°	5169.7	4986.6	3424.7	1753.0	1114.5	877.3	772.2	711.7	665.5	638.5	633.7
32.5°	5682.4	5434.0	3470.9	1714.7	1025.3	786.5	676.7	611.4	576.4	568.4	573.2
35°	6166.4	5838.4	3466.1	1678.1	945.7	695.8	582.7	515.9	488.8	493.6	493.6
37.5°	6723.6	6269.9	3432.7	1620.8	880.5	613.0	501.5	442.6	418.7	420.3	426.7
40°	7371.6	6768.2	3412.0	1512.5	808.8	536.6	434.7	386.9	369.4	363.0	361.4
42.5°	8062.6	7250.6	3415.2	1389.9	719.6	468.1	388.5	348.7	332.8	328.0	326.4
45°	8756.8	7710.8	3419.9	1262.6	625.7	415.5	355.0	321.6	312.1	305.7	305.7
47.5°	9409.6	8102.4	3330.8	1125.6	533.4	375.7	328.0	305.7	297.7	289.8	289.8
50°	10017.8	8363.5	3115.8	966.4	460.1	343.9	307.3	291.4	283.4	275.4	275.4
52.5°	10490.6	8404.9	2760.8	802.4	409.2	320.0	294.5	280.2	270.7	262.7	261.1
55°	10700.8	8145.4	2256.1	649.6	369.4	299.3	281.8	267.5	256.3	248.4	246.8
57.5°	10646.7	7599.3	1759.3	522.2	331.2	278.6	265.9	256.3	243.6	230.9	229.3
60°	10380.8	6868.5	1326.3	434.7	296.1	256.3	248.4	240.4	222.9	203.8	200.6
62.5°	9920.7	5949.8	945.7	359.8	257.9	230.9	227.7	221.3	195.8	160.8	157.6
65°	9216.9	4833.8	636.9	299.3	221.3	202.2	203.8	192.6	159.2	119.4	116.2
67.5°	8188.4	3534.6	407.6	245.2	184.7	168.8	170.4	164.0	135.3	101.9	97.1
70°	6878.1	2340.5	265.9	186.3	148.1	130.6	140.1	141.7	114.6	82.8	79.6
72.5°	5042.3	1382.0	186.3	138.5	108.3	90.8	114.6	117.8	92.3	62.1	58.9
75°	2873.8	656.0	140.1	100.3	66.9	63.7	89.2	89.2	63.7	41.4	38.2
77.5°	1206.8	273.8	98.7	65.3	38.2	36.6	60.5	55.7	31.8	19.1	19.1
80°	348.7	122.6	52.5	31.8	15.9	14.3	23.9	17.5	8.0	3.2	3.2
82.5°	136.9	54.1	20.7	12.7	6.4	6.4	3.2	0.0	0.0	0.0	0.0
85°	81.2	22.3	9.6	4.8	1.6	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	20.7	4.8	3.2	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)