

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: P883256

Luminaire Tested: **NAV-SB3C-735-U-T2-HSS**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P883256
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-SB3C-735-U-T2-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 3500K, 615mA 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: 16403 lumens
Efficiency: N/A
Efficacy: 110.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G2

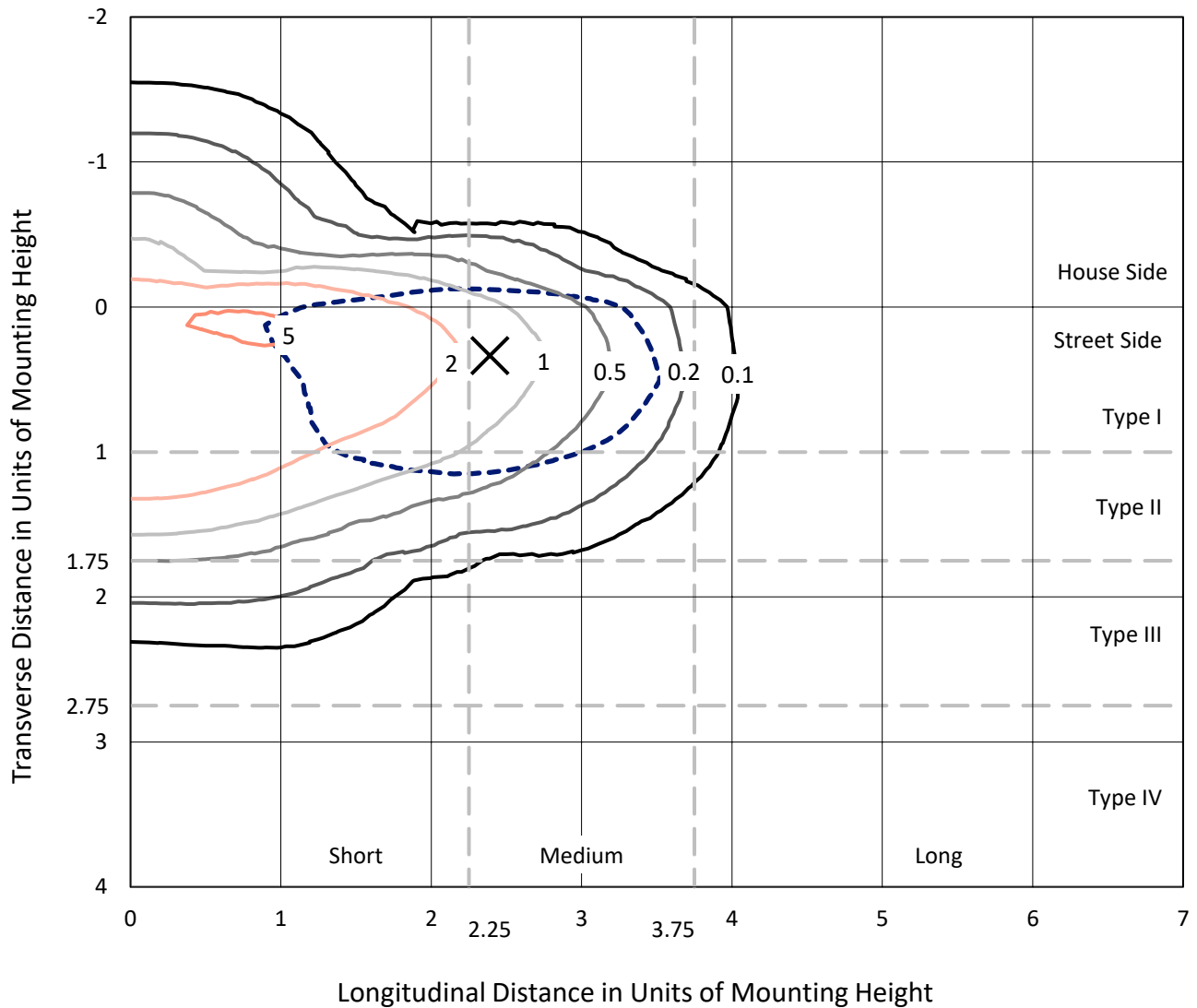
Input Watts (W): 149.1
Input Voltage (V): 120.0
Input Current (Ain): 1.259
Voltage Rise (V): NR
Power Factor: 0.997
Total Harmonic Distortion (THDi): 6.297
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

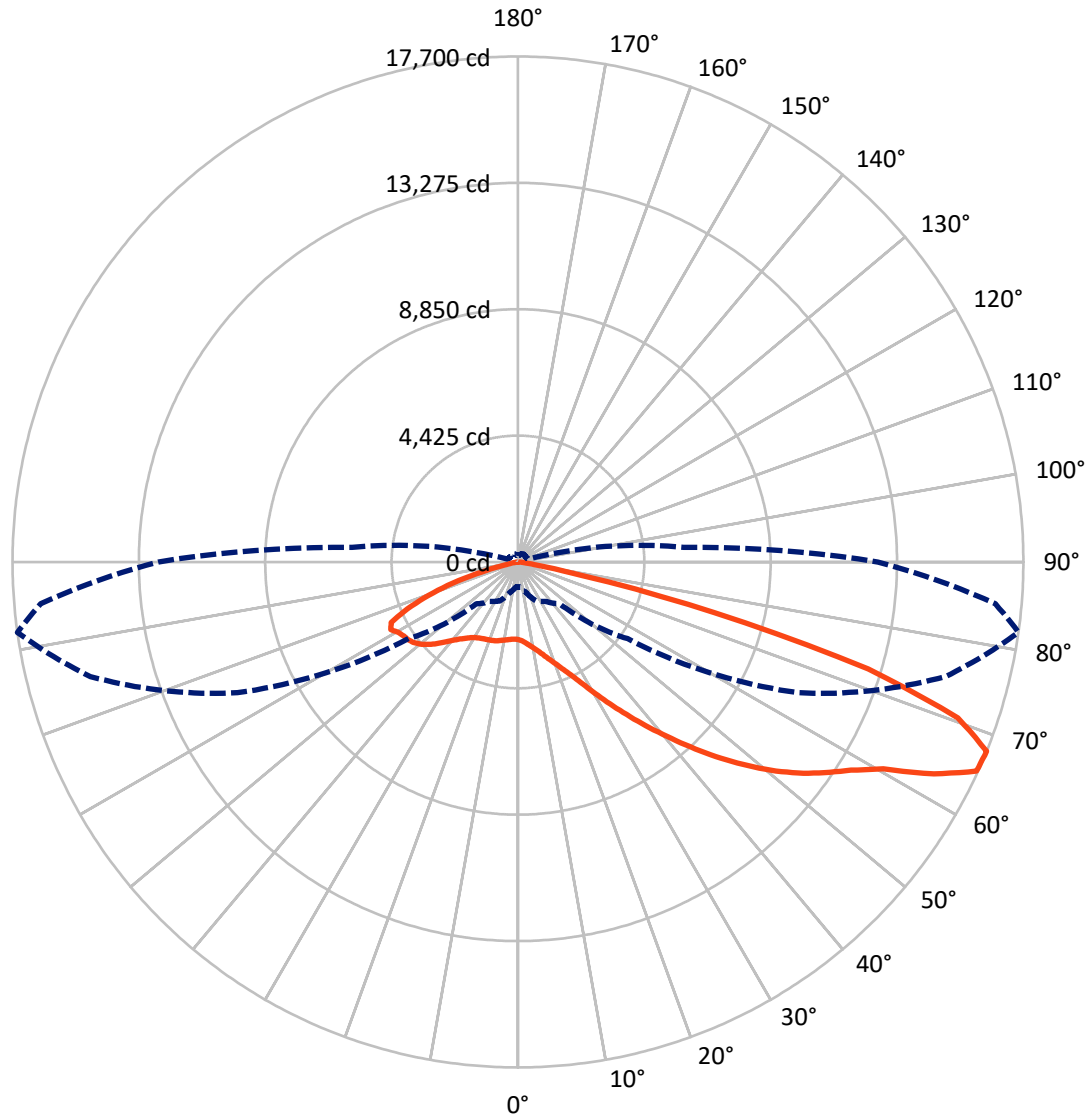
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.7 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
House Side	Lumens	2971.3	0.0	2971.3
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	13431.7	0.0	13431.7
	% Fixture	81.9	0.0	81.9
Total	Lumens	16403.0	0.0	16403.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	242.1	1.5
10°-20°	629.1	3.8
20°-30°	1007.7	6.1
30°-40°	1781.8	10.9
40°-50°	3122.0	19.0
50°-60°	4163.8	25.4
60°-70°	3876.3	23.6
70°-80°	1487.7	9.1
80°-90°	92.4	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°	16403.0	100.0
0°-180°	16403.0	100.0

Coefficient of Utilization



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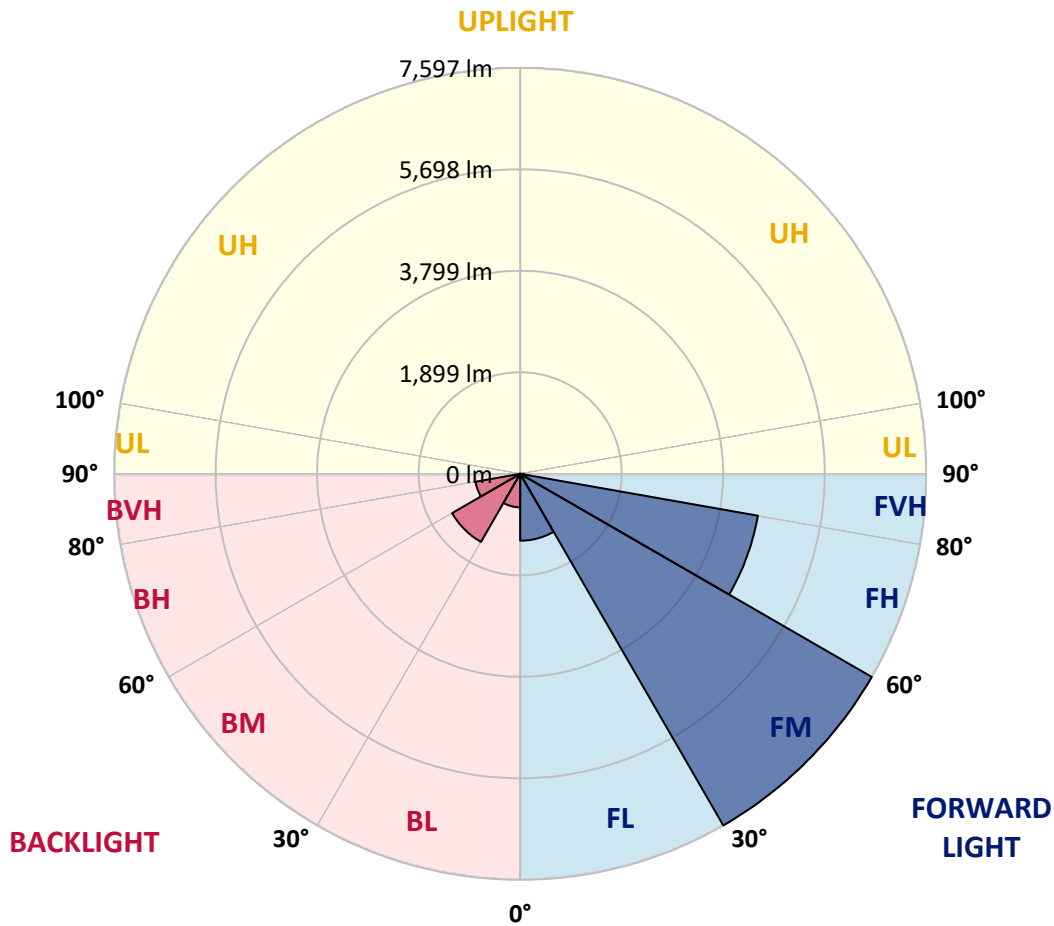
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1251.4	7.6			
FM (30°-60°)	7597.2	46.3			
FH (60°-80°)	4516.0	27.5			G2/5000
FVH (80°-90°)	67.2	0.4			G1/100
BL (0°-30°)	627.5	3.8	B2/1000		
BM (30°-60°)	1470.5	9.0	B2/2500		
BH (60°-80°)	848.0	5.2	B2/1000		G2/1000
BVH (80°-90°)	25.2	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°	2717.4	2717.4	2717.4	2717.4	2717.4	2717.4	2717.4	2717.4	2717.4	2717.4	2717.4
2.5°	2872.1	2888.7	2879.2	2874.5	2866.2	2854.4	2845.0	2815.4	2784.7	2764.7	2757.6
5°	2930.0	2946.5	2945.4	2950.1	2956.0	2959.5	2957.2	2924.1	2880.4	2846.1	2826.1
7.5°	2880.4	2899.3	2914.6	2938.3	2979.6	3023.3	3044.6	3037.5	2992.6	2945.4	2920.5
10°	2739.9	2759.9	2796.5	2852.1	2939.4	3033.9	3113.0	3149.7	3121.3	3069.4	3035.1
12.5°	2482.4	2502.5	2574.5	2695.0	2841.4	3005.6	3156.7	3254.8	3261.9	3209.9	3169.7
15°	2193.1	2213.1	2289.9	2441.1	2664.3	2927.6	3180.4	3365.8	3428.4	3383.5	3335.1
17.5°	2013.6	2031.3	2089.1	2210.8	2443.4	2771.7	3172.1	3483.9	3626.8	3591.3	3533.5
20°	1959.2	1974.6	2001.8	2086.8	2280.5	2610.0	3117.8	3594.9	3840.5	3820.5	3755.5
22.5°	2017.1	2031.3	2039.5	2077.3	2199.0	2503.7	3049.3	3708.3	4088.5	4090.9	4011.8
25°	2150.6	2164.7	2155.3	2178.9	2232.0	2470.6	3023.3	3841.7	4400.3	4426.3	4336.5
27.5°	2370.2	2371.4	2349.0	2347.8	2356.0	2520.2	3050.5	3984.6	4793.6	4842.0	4731.0
30°	2810.7	2793.0	2706.8	2613.5	2571.0	2669.0	3126.0	4153.5	5257.7	5343.9	5204.6
32.5°	3489.8	3463.8	3305.5	3082.3	2858.0	2908.7	3261.9	4346.0	5763.2	5919.0	5749.0
35°	4226.7	4219.6	4054.3	3722.4	3330.3	3250.0	3482.7	4598.7	6314.7	6562.7	6360.7
37.5°	4911.7	4908.1	4813.7	4422.7	3945.6	3726.0	3837.0	4929.4	6905.2	7264.2	7025.6
40°	5537.6	5548.2	5453.7	5104.2	4623.5	4336.5	4318.8	5338.0	7561.8	8028.3	7744.8
42.5°	6078.5	6090.3	5994.6	5736.0	5293.1	5012.1	4910.5	5838.7	8203.0	8849.0	8513.6
45°	6445.8	6519.0	6504.8	6298.1	5980.5	5688.8	5621.4	6467.0	8934.1	9719.4	9326.2
47.5°	6549.7	6617.0	6723.3	6751.6	6558.0	6271.0	6351.3	7224.0	9673.4	10591.0	10143.4
50°	6293.4	6356.0	6576.8	6870.9	7005.5	6917.0	7061.0	8035.3	10430.4	11460.2	10945.3
52.5°	5788.0	5851.7	6130.4	6595.7	7144.9	7423.6	7773.2	8834.9	11163.8	12283.3	11704.6
55°	5056.9	5124.2	5482.1	6008.8	6879.2	7632.6	8367.2	9633.2	11835.7	13023.8	12389.6
57.5°	4062.6	4112.2	4484.2	5221.1	6210.7	7424.8	8805.3	10504.8	12468.7	13751.3	13068.7
60°	2647.7	2691.4	3123.7	3945.6	5103.0	6730.4	8892.7	11476.7	13309.6	14697.2	13983.9
62.5°	1760.8	1790.4	2046.6	2650.1	3593.7	5397.1	8381.4	12252.6	14542.5	16343.5	15553.4
65°	1208.1	1237.7	1493.9	1914.4	2321.8	3570.1	6911.1	12149.9	15659.7	17650.8	16716.7
67.5°	862.1	886.9	1104.2	1501.0	1680.5	2073.8	4684.9	10836.6	15499.1	17700.4	16779.3
70°	617.6	631.8	811.3	1169.2	1335.7	1245.9	2605.2	8288.1	13570.6	16344.7	15501.5
72.5°	432.2	437.0	563.3	890.5	1075.9	909.4	1240.0	5525.8	10263.8	12828.9	12017.6
75°	292.9	298.8	379.1	653.1	863.3	694.4	656.6	2963.1	6025.3	7101.2	6365.5
77.5°	179.5	181.9	244.5	446.4	646.0	529.1	422.8	1255.4	2331.2	2288.7	1951.0
80°	101.6	101.6	155.9	277.5	440.5	341.3	296.4	533.8	738.1	648.4	571.6
82.5°	56.7	57.9	113.4	172.4	291.7	201.9	163.0	246.8	318.9	282.3	245.6
85°	23.6	26.0	69.7	81.5	139.4	100.4	66.1	103.9	118.1	105.1	76.8
87.5°	2.4	3.5	21.3	15.4	16.5	20.1	9.4	20.1	16.5	16.5	11.8
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°	2717.4	2717.4	2717.4	2717.4	2717.4	2717.4	2717.4	2717.4	2717.4	2717.4	2717.4
2.5°	2735.1	2717.4	2672.5	2620.6	2552.1	2519.0	2474.1	2443.4	2417.5	2419.8	2396.2
5°	2788.3	2743.4	2643.0	2517.8	2361.9	2250.9	2132.8	2051.4	1985.2	1971.0	1939.2
7.5°	2861.5	2790.6	2614.7	2389.1	2125.8	1926.2	1747.8	1633.3	1551.8	1525.8	1499.8
10°	2956.0	2853.2	2578.1	2227.3	1848.2	1594.3	1403.0	1313.2	1257.7	1238.8	1224.7
12.5°	3065.8	2925.3	2529.6	2030.1	1562.4	1318.0	1196.3	1151.5	1133.7	1127.8	1124.3
15°	3204.0	3015.0	2456.4	1796.3	1320.3	1149.1	1097.1	1091.2	1093.6	1091.2	1090.0
17.5°	3368.1	3113.0	2337.1	1555.3	1157.4	1062.9	1044.0	1048.7	1054.6	1053.4	1051.1
20°	3547.6	3209.9	2184.8	1341.6	1046.3	1001.5	990.8	995.6	1000.3	997.9	996.7
22.5°	3752.0	3313.8	2015.9	1175.1	971.9	944.8	933.0	934.2	934.2	929.4	927.1
25°	3996.4	3428.4	1838.8	1057.0	915.3	894.0	879.8	875.1	868.0	853.8	851.5
27.5°	4288.1	3550.0	1668.7	974.3	870.4	850.3	833.8	822.0	804.2	780.6	778.3
30°	4616.4	3697.6	1524.6	922.3	834.9	814.9	796.0	778.3	752.3	722.8	720.4
32.5°	5002.6	3855.9	1419.5	888.1	803.1	781.8	759.4	738.1	709.8	680.2	681.4
35°	5463.2	4047.2	1358.1	864.5	778.3	749.9	725.1	701.5	680.2	654.3	651.9
37.5°	5962.7	4250.3	1339.2	852.7	761.7	718.0	689.7	673.2	670.8	655.4	654.3
40°	6509.5	4491.2	1353.4	845.6	744.0	687.3	656.6	653.1	659.0	631.8	633.0
42.5°	7088.2	4777.0	1377.0	837.3	719.2	656.6	627.1	627.1	622.4	584.6	584.6
45°	7714.1	5106.5	1400.6	817.2	689.7	625.9	603.5	595.2	575.1	538.5	537.3
47.5°	8344.8	5441.9	1418.4	780.6	654.3	599.9	579.9	561.0	531.4	498.4	497.2
50°	8943.5	5743.1	1399.5	726.3	614.1	575.1	553.9	527.9	496.0	473.6	470.0
52.5°	9478.5	6004.1	1319.1	662.5	571.6	549.2	530.3	503.1	477.1	453.5	451.1
55°	9943.8	6215.5	1177.4	602.3	533.8	526.7	507.8	473.6	438.1	418.1	415.7
57.5°	10390.2	6376.1	1000.3	552.7	499.6	501.9	473.6	442.9	409.8	388.5	386.2
60°	10984.2	6591.0	820.8	506.6	462.9	470.0	439.3	416.9	375.5	348.4	344.8
62.5°	11933.7	6925.2	651.9	450.0	420.4	422.8	409.8	382.6	333.0	301.1	298.8
65°	12687.2	6802.4	513.7	388.5	372.0	375.5	375.5	346.0	292.9	256.3	252.7
67.5°	12602.2	5824.6	409.8	328.3	325.9	328.3	336.6	311.8	259.8	230.3	225.6
70°	11609.0	4633.0	328.3	272.8	283.4	277.5	301.1	284.6	233.8	204.3	200.8
72.5°	9472.6	3337.4	250.4	225.6	217.3	226.7	271.6	256.3	194.9	161.8	158.3
75°	5535.2	1780.9	186.6	178.3	157.1	189.0	240.9	218.5	148.8	119.3	115.7
77.5°	1802.2	621.2	137.0	131.1	116.9	152.3	205.5	184.2	121.6	94.5	90.9
80°	483.0	187.8	93.3	86.2	75.6	113.4	163.0	146.4	87.4	61.4	60.2
82.5°	193.7	79.1	54.3	48.4	41.3	77.9	128.7	118.1	65.0	39.0	39.0
85°	62.6	26.0	20.1	15.4	18.9	48.4	76.8	80.3	46.1	20.1	15.4
87.5°	8.3	3.5	3.5	4.7	3.5	8.3	23.6	22.4	13.0	2.4	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)