

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: P967120

Luminaire Tested: **NAV-SB4D-722-U-T4FT**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P967120  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-24)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMARK  
Catalog Number: NAV-SB4D-722-U-T4FT  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(4) 70 CRI, 2200K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV  
FORWARD THROW OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

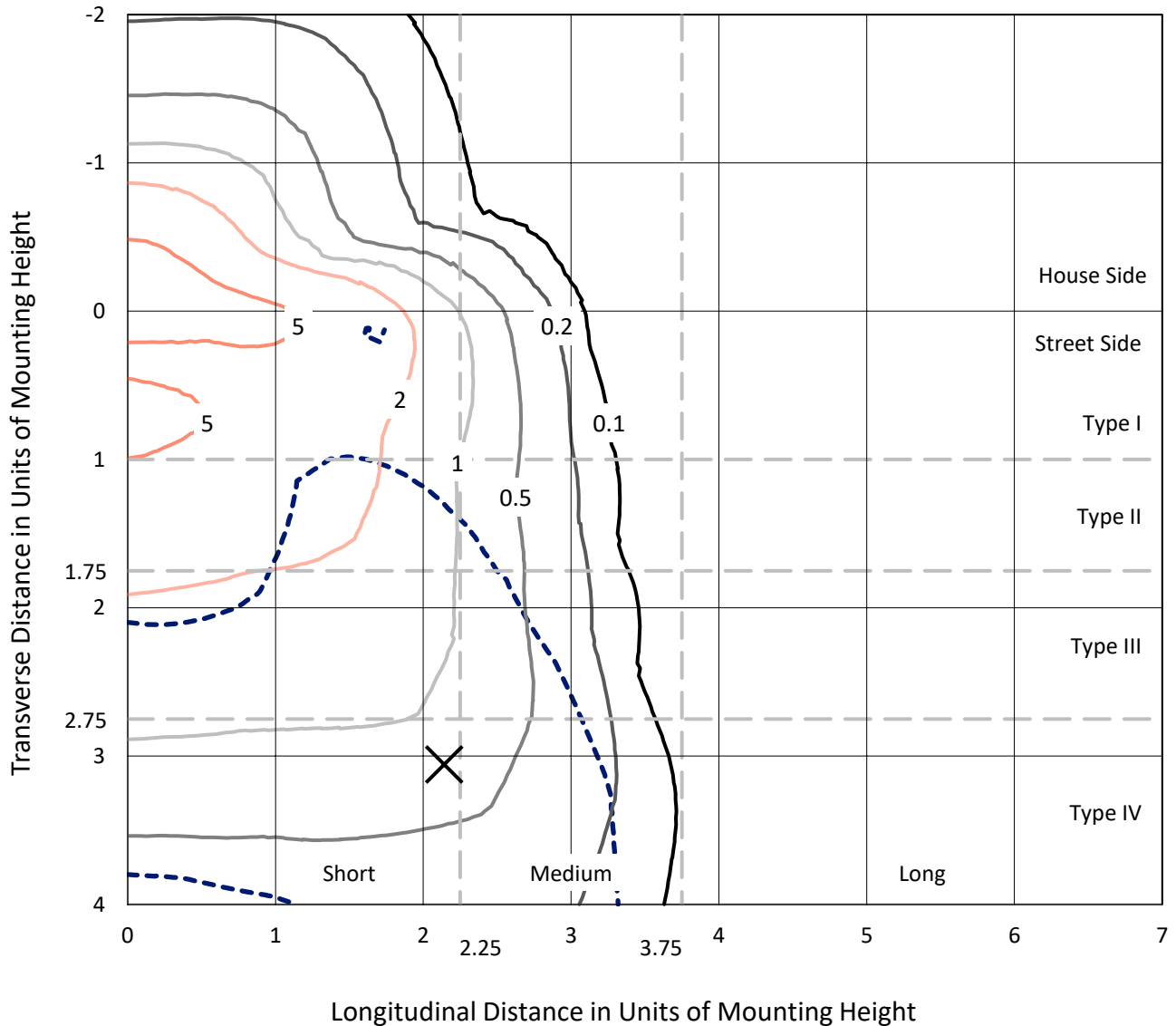
Lumens per Lamp: N/A  
Luminaire Lumens: 34131.5 lumens  
Efficiency: N/A  
Efficacy: 116.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G5  
  
Input Watts (W): 293.6  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
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

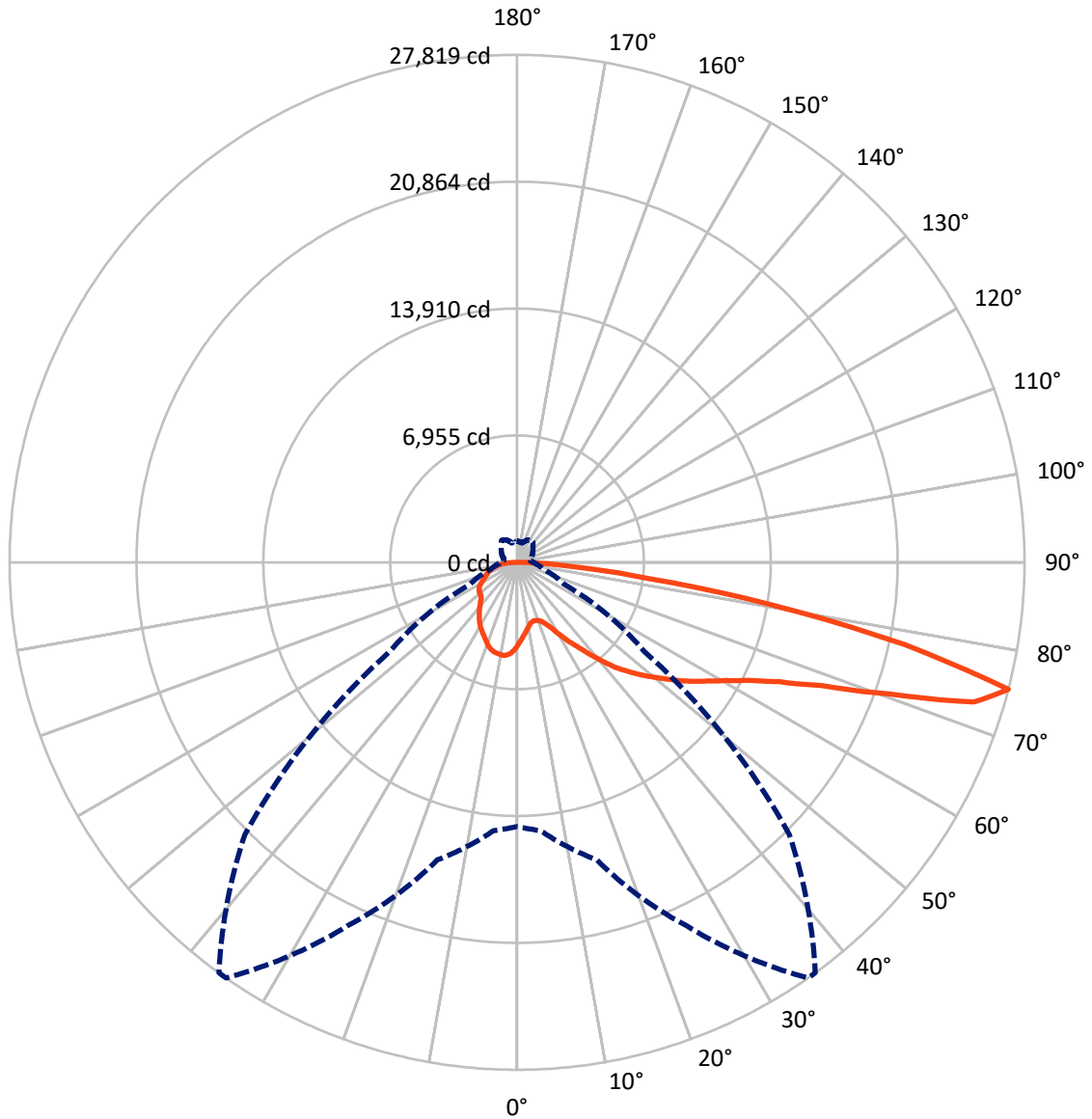
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral      - - - Horizontal Cone Through 75-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	8122.4	0.0	8122.4
	% Fixture	23.8	0.0	23.8
<b>Street Side</b>	Lumens	26009.0	0.0	26009.0
	% Fixture	76.2	0.0	76.2
<b>Total</b>	Lumens	34131.5	0.0	34131.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	430.6	1.3
10°-20°	1242.1	3.6
20°-30°	2085.8	6.1
30°-40°	3241.7	9.5
40°-50°	4811.5	14.1
50°-60°	6642.6	19.5
60°-70°	8059.0	23.6
70°-80°	6660.2	19.5
80°-90°	957.9	2.8
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°	34131.5	100.0
0°-180°	34131.5	100.0

**Coefficient of Utilization**

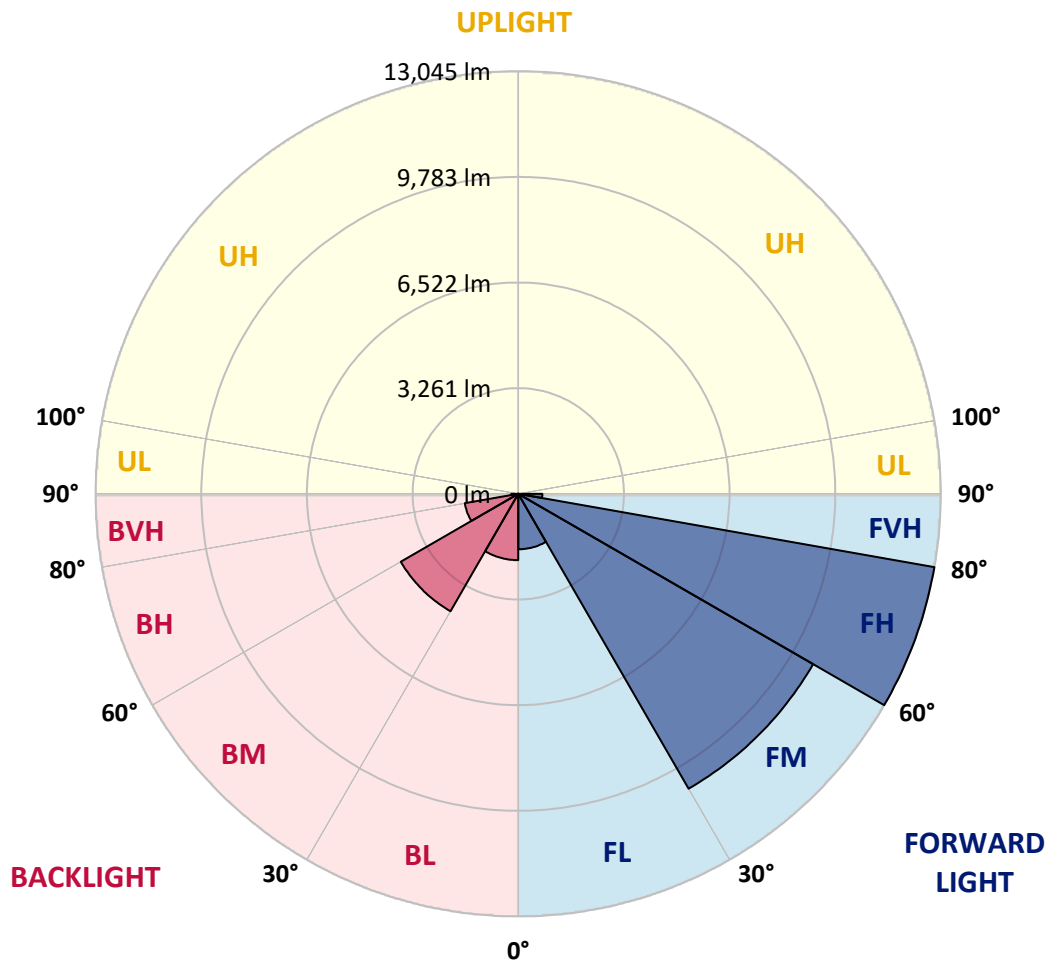


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1711.6	5.0			
FM (30°-60°)	10510.6	30.8			
FH (60°-80°)	13044.5	38.2			G5
FVH (80°-90°)	742.2	2.2			G4/750
BL (0°-30°)	2047.0	6.0	B3/2500		
BM (30°-60°)	4185.2	12.3	B3/5000		
BH (60°-80°)	1674.6	4.9	B3/2500		G3/2500
BVH (80°-90°)	215.7	0.6			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G5**  
 Type IV Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°	85°
0°	4548.2	4548.2	4548.2	4548.2	4548.2	4548.2	4548.2	4548.2	4548.2	4548.2	4548.2
2.5°	4194.0	4219.8	4230.9	4225.4	4253.0	4249.3	4288.1	4336.1	4402.5	4467.1	4561.1
5°	3871.1	3898.8	3922.8	3944.9	3998.4	4015.0	4075.9	4168.2	4289.9	4413.5	4568.5
7.5°	3570.3	3594.4	3631.3	3671.9	3762.3	3778.9	3880.3	4024.3	4194.0	4374.8	4588.8
10°	3324.9	3348.9	3387.6	3433.7	3546.3	3566.6	3695.8	3887.7	4109.1	4337.9	4611.0
12.5°	3219.7	3227.1	3249.2	3295.4	3393.2	3406.1	3548.1	3767.8	4026.1	4310.2	4644.2
15°	3214.2	3229.0	3230.8	3254.8	3336.0	3341.5	3472.5	3690.3	3974.4	4304.7	4694.0
17.5°	3269.5	3280.6	3264.0	3278.8	3347.0	3356.3	3459.6	3653.4	3957.8	4328.7	4778.9
20°	3417.1	3426.4	3376.6	3356.3	3406.1	3413.5	3514.9	3677.4	3974.4	4378.5	4895.1
22.5°	3730.9	3736.4	3614.7	3531.5	3535.2	3538.9	3627.6	3775.2	4039.0	4468.9	5042.8
25°	4219.8	4216.1	4022.4	3861.9	3769.6	3749.3	3808.4	3933.8	4147.9	4588.8	5232.8
27.5°	4791.8	4764.1	4570.4	4330.5	4129.4	4099.9	4087.0	4140.5	4302.8	4747.5	5465.3
30°	5437.6	5411.8	5203.3	4889.6	4611.0	4563.0	4441.2	4413.5	4533.5	4963.4	5788.2
32.5°	6146.1	6129.5	5880.4	5500.4	5127.7	5072.3	4867.4	4793.6	4887.7	5290.0	6238.4
35°	6740.3	6725.5	6518.9	6127.7	5671.9	5603.7	5395.2	5312.2	5360.1	5708.8	6827.0
37.5°	7277.2	7269.8	7092.7	6784.6	6314.0	6231.0	5996.7	5969.0	5959.8	6260.5	7541.0
40°	7775.3	7756.9	7572.4	7410.0	7061.3	6985.7	6779.0	6755.1	6684.9	6939.6	8349.2
42.5°	8327.1	8279.1	8011.6	7936.0	7841.8	7779.0	7655.4	7659.1	7504.1	7705.2	9205.3
45°	8777.3	8749.6	8474.7	8430.4	8531.9	8506.1	8613.1	8640.8	8340.0	8507.9	10094.7
47.5°	9260.7	9234.8	9002.4	8971.0	9245.9	9253.3	9631.6	9640.8	9155.5	9342.0	10985.9
50°	9856.7	9819.8	9589.2	9627.9	9936.0	9963.7	10655.6	10592.9	9906.5	10188.8	11869.7
52.5°	10249.7	10271.8	10222.0	10284.7	10705.4	10731.2	11663.1	11502.6	10650.1	11024.7	12737.0
55°	10539.4	10583.6	10738.6	10882.6	11517.3	11543.1	12613.3	12368.0	11266.4	11799.6	13552.4
57.5°	10912.2	10849.4	11139.1	11419.5	12288.6	12356.9	13537.7	13201.9	11812.5	12467.6	14111.6
60°	11447.2	11402.9	11628.0	12043.1	13152.1	13260.9	14515.6	13952.9	12213.0	12997.1	14220.4
62.5°	12532.2	12421.5	12456.5	12823.7	14240.7	14384.6	15619.1	14607.9	12412.2	13203.7	13637.4
65°	14154.0	13964.0	13786.9	14041.5	15774.0	15916.1	16864.5	15122.7	12338.4	12803.4	12089.3
67.5°	16196.5	16008.3	15790.6	16030.5	18032.5	18145.1	18401.5	15412.4	11757.2	11260.9	9353.0
70°	17881.1	17811.0	18071.3	19058.3	21639.7	21643.4	20372.1	15172.6	10164.8	7983.9	5411.8
72.5°	17657.9	17615.4	18986.4	22038.2	26186.1	26088.3	22237.5	13356.9	6847.3	3601.7	2027.8
75°	14486.1	14761.0	16884.8	21984.7	27819.0	27806.1	21095.4	8491.3	2832.3	1492.7	1048.1
77.5°	7768.0	8203.5	10962.0	16231.6	21717.2	22043.8	14831.1	2970.7	1216.0	955.8	725.2
80°	2533.4	2913.5	4369.3	8264.4	14111.6	14050.7	6356.4	1166.1	832.2	677.1	501.8
82.5°	1075.7	1120.0	1952.1	3902.5	7242.1	7129.6	2024.1	669.7	584.9	463.1	310.0
85°	420.7	470.5	861.7	1804.5	3136.7	3068.4	730.7	332.1	374.5	302.6	184.5
87.5°	138.4	167.9	308.1	618.1	976.1	941.1	179.0	114.4	162.4	138.4	66.4
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°	4548.2	4548.2	4548.2	4548.2	4548.2	4548.2	4548.2	4548.2	4548.2	4548.2	4548.2
2.5°	4587.0	4616.5	4651.6	4703.2	4747.5	4784.4	4823.1	4847.1	4856.3	4884.0	4882.2
5°	4620.2	4684.8	4771.5	4856.3	4939.4	4989.2	5033.6	5055.7	5076.0	5090.8	5094.5
7.5°	4675.5	4758.6	4895.1	5005.8	5076.0	5116.6	5146.1	5138.7	5146.1	5149.8	5155.3
10°	4723.5	4839.7	5002.1	5107.4	5160.9	5162.7	5155.3	5129.5	5116.6	5118.4	5122.1
12.5°	4780.7	4909.9	5085.2	5173.8	5188.5	5148.0	5116.6	5072.3	5055.7	5048.3	5044.6
15°	4858.2	5005.8	5175.6	5208.8	5171.9	5120.3	5066.8	4994.7	4957.8	4928.3	4937.5
17.5°	4952.3	5114.8	5245.7	5221.8	5142.4	5057.6	4970.7	4861.9	4786.2	4754.9	4756.7
20°	5083.4	5229.1	5299.2	5194.1	5074.2	4944.9	4797.3	4664.5	4594.4	4563.0	4559.3
22.5°	5242.1	5382.3	5350.9	5146.1	4976.3	4769.6	4585.1	4487.3	4452.3	4430.2	4433.8
25°	5432.1	5552.0	5387.8	5076.0	4815.8	4537.2	4395.1	4363.7	4347.1	4330.5	4330.5
27.5°	5679.3	5743.9	5415.5	4972.6	4564.8	4289.9	4238.3	4243.8	4238.3	4210.6	4216.1
30°	6005.9	5993.0	5441.3	4804.7	4277.0	4066.7	4070.4	4094.4	4098.1	4079.6	4088.8
32.5°	6435.8	6304.8	5454.2	4587.0	4002.1	3871.1	3874.8	3900.6	3919.1	3887.7	3902.5
35°	6956.2	6668.3	5433.9	4313.9	3789.9	3684.8	3657.1	3664.5	3670.0	3640.5	3660.8
37.5°	7563.2	7076.1	5343.5	4011.3	3614.7	3502.0	3443.0	3393.2	3363.6	3336.0	3354.4
40°	8229.3	7520.7	5177.5	3716.1	3419.0	3308.3	3219.7	3125.6	3026.0	2989.1	3005.7
42.5°	8926.7	7978.4	4976.3	3433.7	3193.9	3103.5	3009.4	2872.9	2723.4	2647.8	2657.0
45°	9650.1	8447.0	4778.9	3155.2	2963.3	2924.5	2815.7	2651.5	2489.1	2393.2	2385.8
47.5°	10358.5	8889.8	4489.2	2874.7	2747.4	2789.8	2705.0	2553.7	2372.9	2221.6	2205.0
50°	11035.8	9304.9	4015.0	2590.6	2572.1	2749.3	2668.1	2450.4	2243.7	2049.9	2033.3
52.5°	11707.3	9640.8	3407.9	2332.3	2478.0	2738.2	2620.1	2380.3	2127.4	1924.4	1902.3
55°	12277.6	9814.3	2823.1	2110.8	2341.5	2644.1	2562.9	2297.2	1963.2	1747.3	1728.9
57.5°	12602.3	9674.1	2336.0	1893.1	2153.3	2489.1	2465.1	2120.0	1767.6	1601.6	1579.4
60°	12462.1	9105.7	1937.4	1703.0	1974.3	2321.2	2295.4	1944.7	1618.2	1461.3	1439.2
62.5°	11688.9	8022.7	1621.9	1537.0	1811.9	2149.5	2125.5	1810.0	1503.8	1352.5	1328.5
65°	10131.6	6526.3	1376.5	1398.6	1647.7	1942.9	1977.9	1697.5	1413.4	1265.8	1241.8
67.5°	7727.4	4727.2	1184.6	1278.7	1487.2	1739.9	1841.4	1616.3	1337.7	1197.5	1175.4
70°	4404.3	2684.7	1022.2	1162.5	1345.1	1551.7	1736.2	1551.7	1256.5	1140.3	1125.6
72.5°	1669.8	1232.6	883.9	1046.2	1208.6	1393.1	1620.0	1450.3	1162.5	1075.7	1061.0
75°	891.2	751.0	743.6	909.7	1051.8	1238.1	1474.3	1350.6	1092.3	1136.6	1173.5
77.5°	607.0	531.4	621.8	778.7	880.2	1066.5	1319.3	1199.4	946.6	942.9	869.1
80°	420.7	376.4	505.5	627.3	680.8	896.8	1151.4	1029.6	771.3	719.7	688.2
82.5°	252.8	245.4	378.2	468.6	481.5	691.9	954.0	863.6	631.0	549.8	553.5
85°	138.4	145.8	241.7	274.9	280.4	483.4	747.3	667.9	485.2	407.7	411.4
87.5°	38.7	49.8	88.6	108.9	134.7	250.9	444.6	396.7	243.5	169.7	169.7
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)