

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: P971327

Luminaire Tested: **NAV-SB6D-722-U-T2R**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P971327  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-3)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMARK  
Catalog Number: NAV-SB6D-722-U-T2R  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(6) 70 CRI, 2200K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II  
ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 53220 lumens  
Efficiency: N/A  
Efficacy: 120.9 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B4 - U0 - G5

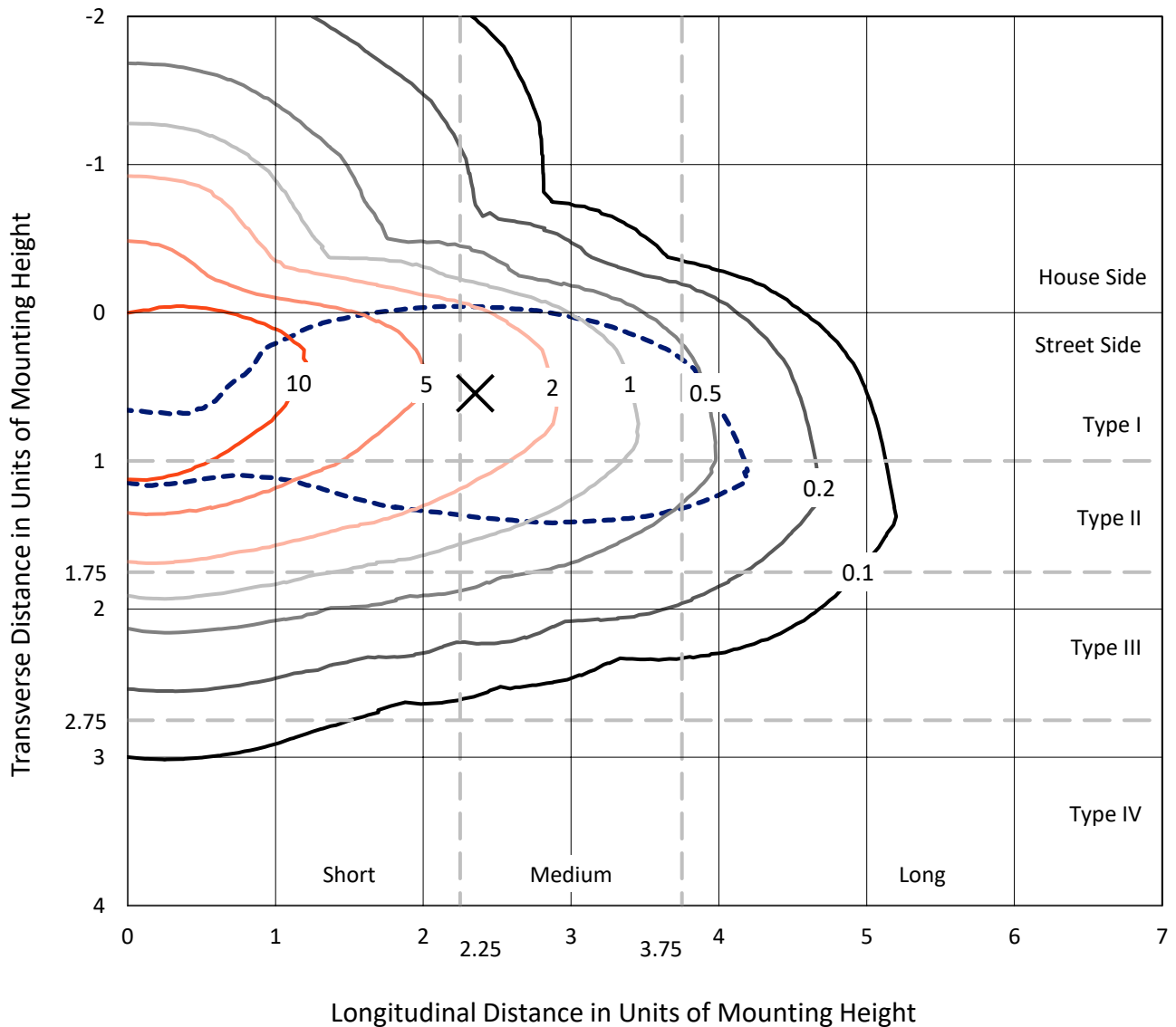
Input Watts (W): 440.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

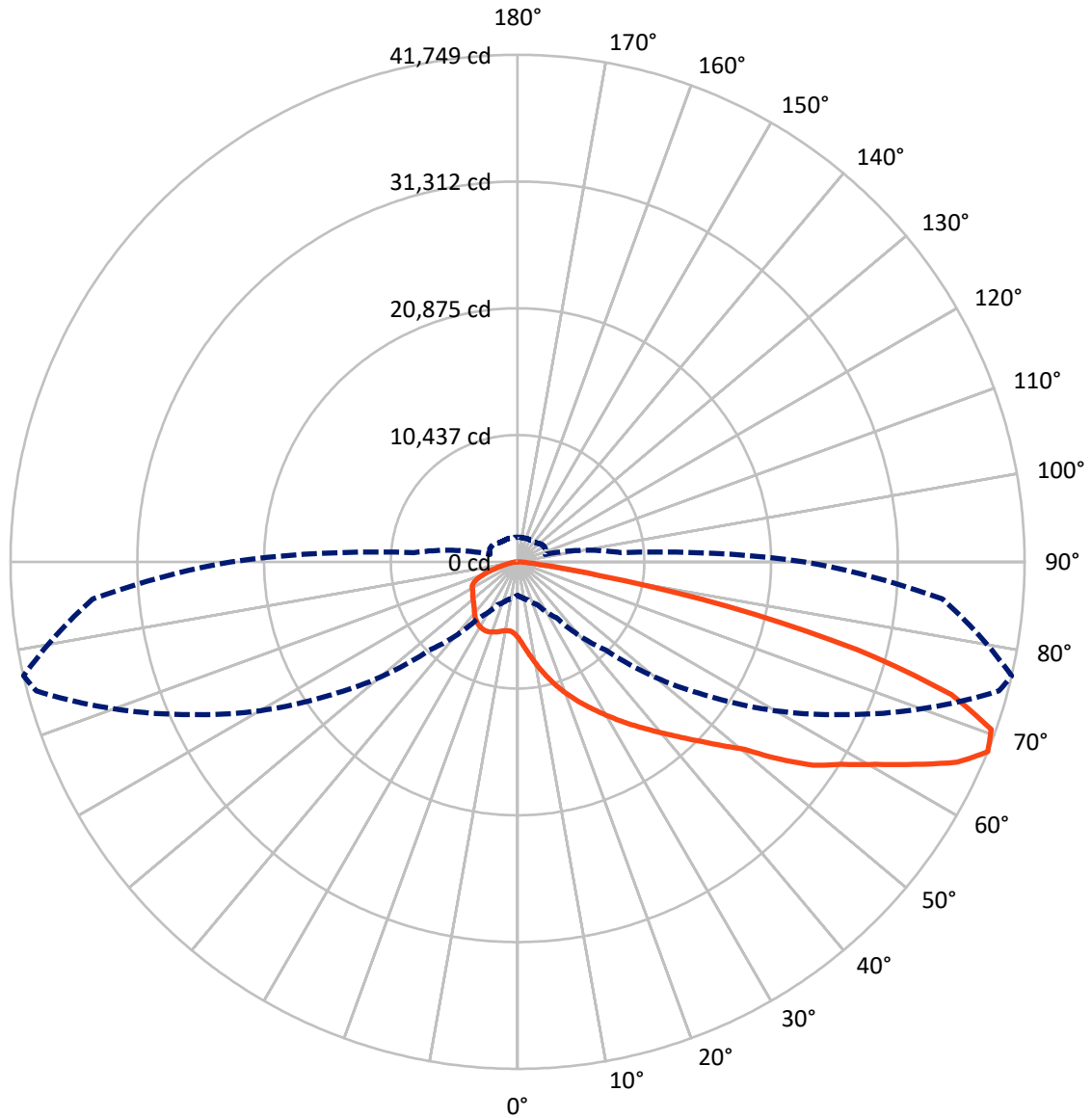
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 19.5 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral      - - - Horizontal Cone Through 67.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	10067.1	0.0	10067.1
	% Fixture	18.9	0.0	18.9
<b>Street Side</b>	Lumens	43152.9	0.0	43152.9
	% Fixture	81.1	0.0	81.1
<b>Total</b>	Lumens	53220.0	0.0	53220.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	669.3	1.3
10°-20°	2404.6	4.5
20°-30°	4540.1	8.5
30°-40°	7314.0	13.7
40°-50°	10004.2	18.8
50°-60°	11284.8	21.2
60°-70°	10532.9	19.8
70°-80°	5773.8	10.8
80°-90°	696.5	1.3
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°	53220.0	100.0
0°-180°	53220.0	100.0

**Coefficient of Utilization**

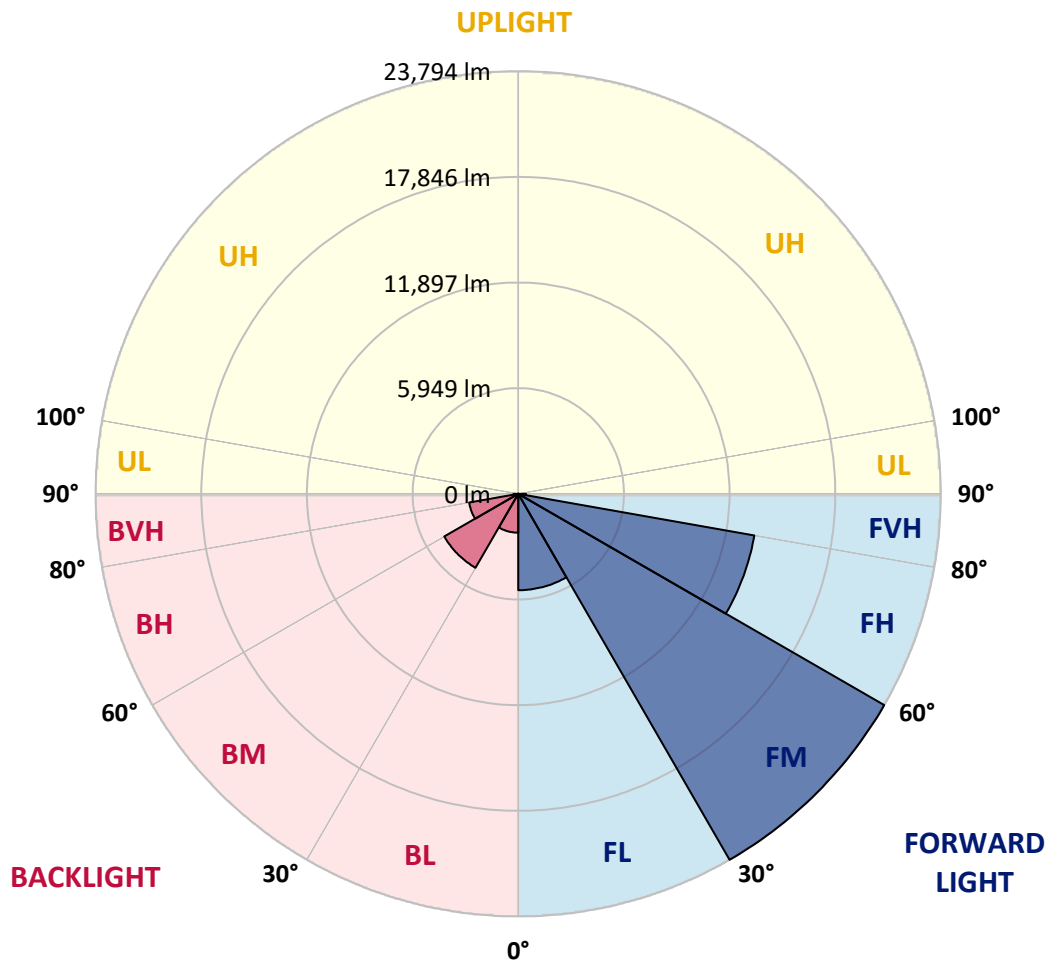


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5425.1	10.2			
FM (30°-60°)	23794.1	44.7			
FH (60°-80°)	13498.2	25.4			G5
FVH (80°-90°)	435.6	0.8			G3/500
BL (0°-30°)	2188.8	4.1	B3/2500		
BM (30°-60°)	4808.8	9.0	B3/5000		
BH (60°-80°)	2808.6	5.3	B4/5000		G4/5000
BVH (80°-90°)	260.9	0.5			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G5**  
 Type II Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	6244.4	6244.4	6244.4	6244.4	6244.4	6244.4	6244.4	6244.4	6244.4	6244.4	6244.4
2.5°	7818.5	7873.4	7804.8	7804.8	7574.0	7453.1	7222.4	7046.6	6730.7	6675.7	6466.9
5°	9241.5	9310.3	9214.0	9172.8	8900.9	8650.9	8263.6	7881.7	7318.5	7260.8	6769.1
7.5°	10343.2	10431.1	10345.9	10302.0	10060.2	9780.0	9326.7	8793.8	7999.8	7887.2	7175.6
10°	11241.5	11255.2	11227.7	11244.2	11054.7	10823.9	10359.7	9738.8	8747.0	8593.2	7667.4
12.5°	11749.8	11812.9	11867.9	11966.8	11933.8	11791.0	11373.4	10631.6	9538.2	9340.4	8203.1
15°	11988.7	12098.6	12222.2	12450.3	12634.4	12670.0	12351.4	11590.4	10343.2	10104.1	8744.3
17.5°	12073.9	12178.3	12373.4	12703.0	13098.6	13365.1	13222.2	12521.7	11139.9	10865.1	9312.9
20°	12505.2	12535.4	12653.5	12966.8	13395.3	13837.6	13944.7	13417.2	11928.3	11617.9	9900.9
22.5°	13428.3	13367.8	13400.7	13543.6	13851.3	14279.9	14524.4	14208.4	12738.7	12381.6	10494.3
25°	14953.0	14777.1	14601.3	14436.5	14593.1	14834.8	15112.3	14999.6	13587.6	13134.4	11093.2
27.5°	16878.8	16664.4	16277.1	15735.9	15546.4	15631.6	15755.2	15733.1	14373.3	13914.5	11711.2
30°	18774.3	18524.3	18062.8	17279.9	16779.9	16554.6	16461.2	16397.9	15227.7	14738.7	12334.8
32.5°	20288.0	20090.2	19636.9	18760.6	18035.3	17650.7	17340.2	17115.0	16120.5	15631.6	12994.2
35°	21612.1	21428.1	20908.9	19952.9	19164.4	18755.0	18348.5	17867.7	17049.0	16554.6	13703.0
37.5°	22820.9	22636.8	21925.4	20930.8	20136.9	19853.9	19491.3	18675.4	17980.3	17513.4	14453.0
40°	23584.6	23543.4	22878.6	21752.2	20928.1	20788.0	20667.1	19612.2	19013.3	18579.3	15277.1
42.5°	23779.7	23870.3	23342.8	22417.1	21631.4	21518.7	21801.7	20672.6	20172.6	19757.8	16211.2
45°	23309.9	23570.9	23224.8	22595.6	22131.4	22070.9	22807.2	21831.9	21455.6	21076.5	17337.6
47.5°	22120.4	22562.7	22419.8	22331.9	22266.0	22526.9	23691.7	23062.7	22908.9	22579.2	18623.2
50°	19719.4	20557.2	20807.2	21362.1	21999.5	22881.4	24496.7	24406.1	24606.6	24274.2	20189.1
52.5°	15568.3	16722.2	18172.6	19562.7	21180.8	22763.2	25381.3	26334.6	27180.7	26999.4	22678.0
55°	12851.3	13370.6	14485.9	17035.3	19593.0	22266.0	25779.7	27892.2	29735.6	29573.5	24565.4
57.5°	10763.5	11227.7	11914.6	14043.6	17191.9	21136.9	26026.9	28842.8	31485.5	31469.0	26428.0
60°	8524.5	9016.3	9719.6	11227.7	14387.0	19186.4	25972.0	29925.2	33719.0	33856.4	28699.9
62.5°	5997.1	6538.3	7318.5	8725.1	11521.7	16659.0	24851.1	30708.1	36348.0	36721.8	31433.4
65°	3942.3	4299.4	4887.3	6101.5	8585.0	13409.0	22711.0	30809.8	39161.3	39793.1	33999.2
67.5°	2763.7	2901.1	3247.2	3906.5	5659.2	10282.7	19301.8	29757.6	41037.5	41749.1	35111.9
70°	2156.5	2225.3	2401.1	2664.8	3554.9	6914.6	14790.9	27021.4	40636.4	41378.2	33949.7
72.5°	1862.6	1928.5	1994.4	2027.4	2384.6	4269.1	10019.0	22592.9	36859.1	37361.8	29518.6
75°	1689.5	1706.0	1761.0	1750.0	1818.7	2769.1	5782.8	16461.2	29081.8	28908.7	21790.7
77.5°	1420.3	1442.3	1532.9	1519.2	1615.3	1892.8	3002.6	10623.4	18854.0	17678.2	12128.8
80°	1203.2	1214.2	1313.1	1296.6	1403.8	1370.8	1532.9	5414.7	7997.0	6774.5	3497.2
82.5°	417.6	516.5	1002.8	1033.0	1071.4	829.6	884.6	2208.8	2442.3	1870.8	733.5
85°	203.3	217.0	511.0	725.3	722.5	417.6	431.3	788.4	769.3	604.3	244.5
87.5°	33.0	41.2	60.5	283.0	225.3	109.9	148.3	153.9	159.4	137.4	54.9
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°	6244.4	6244.4	6244.4	6244.4	6244.4	6244.4	6244.4	6244.4	6244.4	6244.4	6244.4
2.5°	6313.1	6175.7	5887.2	5620.8	5412.0	5211.4	5098.8	5002.6	4947.7	4936.7	4936.7
5°	6483.3	6200.4	5675.7	5233.4	4944.9	4730.7	4618.0	4546.6	4510.9	4488.9	4486.1
7.5°	6727.9	6313.1	5565.9	5063.1	4760.9	4607.1	4549.4	4538.4	4535.6	4538.4	4546.6
10°	7065.7	6497.1	5554.8	5021.9	4769.1	4683.9	4681.2	4683.9	4694.9	4697.7	4700.4
12.5°	7431.1	6686.7	5598.8	5057.6	4873.6	4826.8	4818.5	4815.9	4824.1	4829.6	4832.3
15°	7829.5	6936.7	5673.0	5134.5	4988.9	4939.5	4931.2	4914.8	4912.0	4909.2	4906.5
17.5°	8238.8	7183.9	5755.4	5216.9	5063.1	4994.4	4964.2	4925.7	4895.5	4887.3	4895.5
20°	8653.7	7428.4	5813.1	5258.1	5068.5	4972.4	4912.0	4846.0	4793.8	4763.6	4774.7
22.5°	9096.0	7683.9	5848.8	5247.2	5019.1	4887.3	4777.3	4700.4	4620.8	4568.5	4571.3
25°	9527.3	7906.4	5846.0	5189.5	4923.0	4755.4	4615.3	4516.4	4406.5	4351.5	4351.5
27.5°	9942.1	8106.9	5777.3	5087.8	4785.6	4598.8	4431.2	4313.1	4206.0	4153.7	4151.0
30°	10370.6	8274.5	5670.2	4939.5	4623.6	4417.4	4233.5	4131.8	4035.6	3986.2	3983.5
32.5°	10796.4	8428.4	5519.1	4755.4	4436.7	4238.9	4057.6	3964.2	3906.5	3906.5	3909.2
35°	11247.0	8535.5	5318.5	4541.1	4238.9	4049.4	3906.5	3851.5	3846.1	3813.1	3804.9
37.5°	11722.3	8604.2	5074.1	4321.3	4043.8	3865.3	3821.3	3755.4	3700.5	3629.0	3618.0
40°	12222.2	8672.8	4780.1	4093.3	3837.8	3738.9	3719.7	3631.8	3475.2	3299.4	3274.7
42.5°	12829.4	8719.6	4475.2	3865.3	3620.8	3587.8	3615.3	3464.2	3214.2	3082.4	3085.0
45°	13532.7	8796.6	4194.9	3640.0	3398.3	3398.3	3513.7	3315.9	3109.8	3027.4	3041.2
47.5°	14444.7	8975.1	3934.0	3392.7	3192.3	3247.2	3288.4	3137.3	3021.9	2920.2	2917.6
50°	15763.4	9403.7	3664.8	3142.8	3035.6	3145.5	3087.8	3000.0	2865.3	2782.9	2774.7
52.5°	17400.7	9656.4	3425.8	2917.6	2901.1	3010.9	2928.5	2846.1	2744.4	2634.6	2612.6
55°	18516.1	9703.1	3225.2	2752.6	2810.3	2799.4	2769.1	2695.0	2640.1	2494.4	2497.2
57.5°	19763.3	9796.4	3060.3	2653.8	2752.6	2631.8	2620.8	2557.7	2486.2	2387.3	2354.3
60°	21255.0	9942.1	2917.6	2615.3	2703.2	2521.9	2467.0	2442.3	2370.8	2321.4	2335.2
62.5°	22881.4	10073.9	2771.9	2620.8	2645.5	2414.8	2332.4	2324.1	2280.2	2263.7	2263.7
65°	23991.3	9714.0	2590.6	2615.3	2554.9	2304.9	2200.5	2197.7	2162.0	2156.5	2153.8
67.5°	23603.9	8574.0	2346.1	2538.4	2461.4	2195.0	2079.6	2068.7	2021.9	2024.7	2024.7
70°	21664.3	6947.7	2008.2	2348.9	2346.1	2096.1	1953.2	1917.6	1854.3	1865.3	1876.4
72.5°	18027.1	5148.3	1554.9	2032.9	2162.0	2005.4	1807.7	1750.0	1670.3	1681.3	1678.5
75°	13018.9	3500.0	1131.8	1546.6	1881.8	1898.3	1664.8	1565.9	1469.7	1486.2	1491.7
77.5°	6662.0	1983.5	832.4	1065.9	1477.9	1725.3	1535.7	1403.8	1381.8	1535.7	1513.7
80°	2173.0	994.5	576.9	747.2	969.8	1412.0	1346.1	1195.0	1189.5	1225.3	1052.2
82.5°	648.3	420.4	370.8	491.8	535.7	1082.4	1162.0	903.8	777.5	818.7	846.1
85°	222.5	203.3	211.6	244.5	255.5	634.6	813.1	598.9	565.9	623.6	615.4
87.5°	52.2	71.4	60.5	54.9	54.9	153.9	315.9	250.0	346.1	230.7	222.5
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)