

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: P971329

Luminaire Tested: **NAV-SB6D-722-U-T2U**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P971329  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-16)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMARK  
Catalog Number: NAV-SB6D-722-U-T2U  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(6) 70 CRI, 2200K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 52950.5 lumens  
Efficiency: N/A  
Efficacy: 120.3 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B5 - U0 - G5

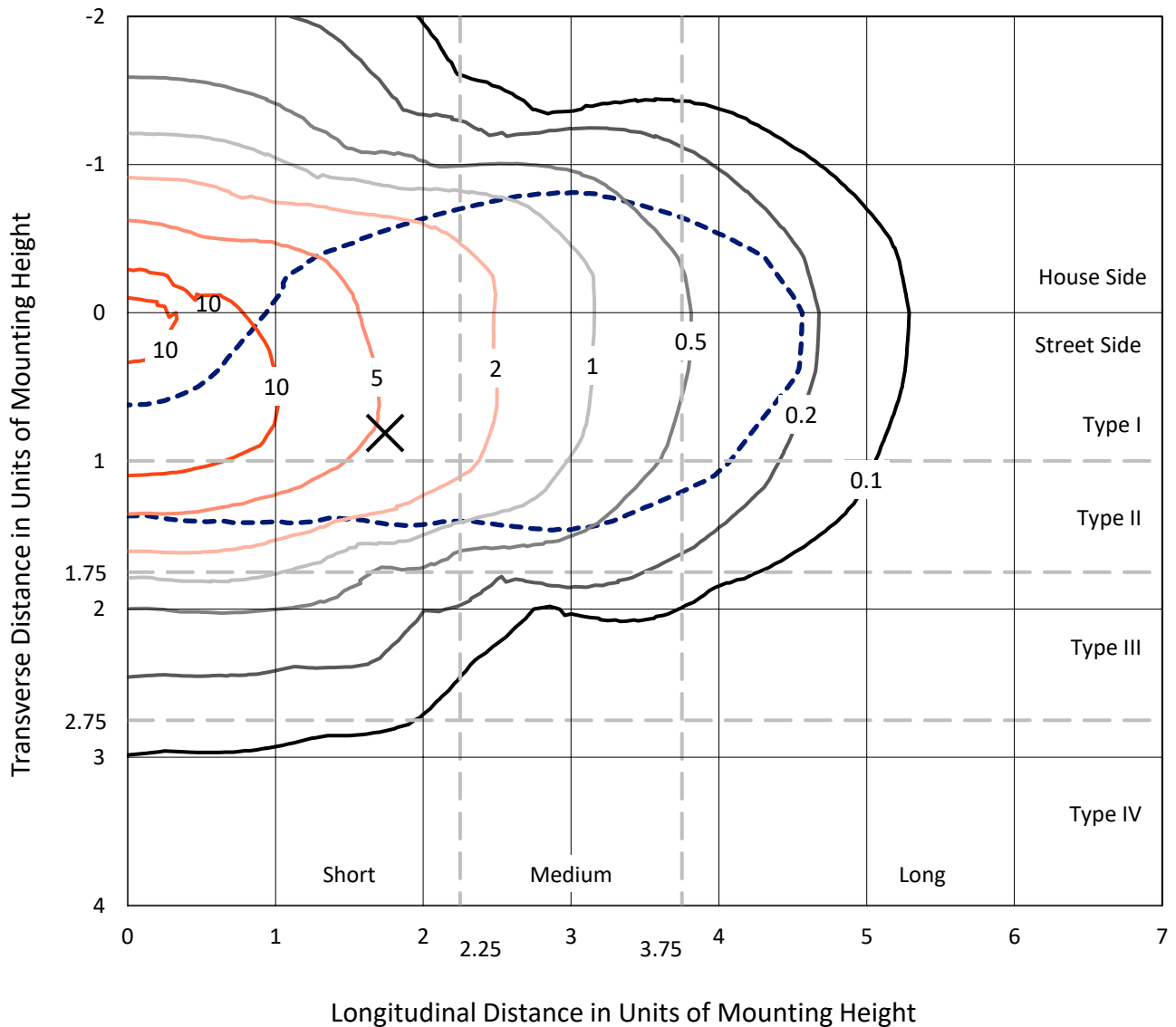
Input Watts (W): 440.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

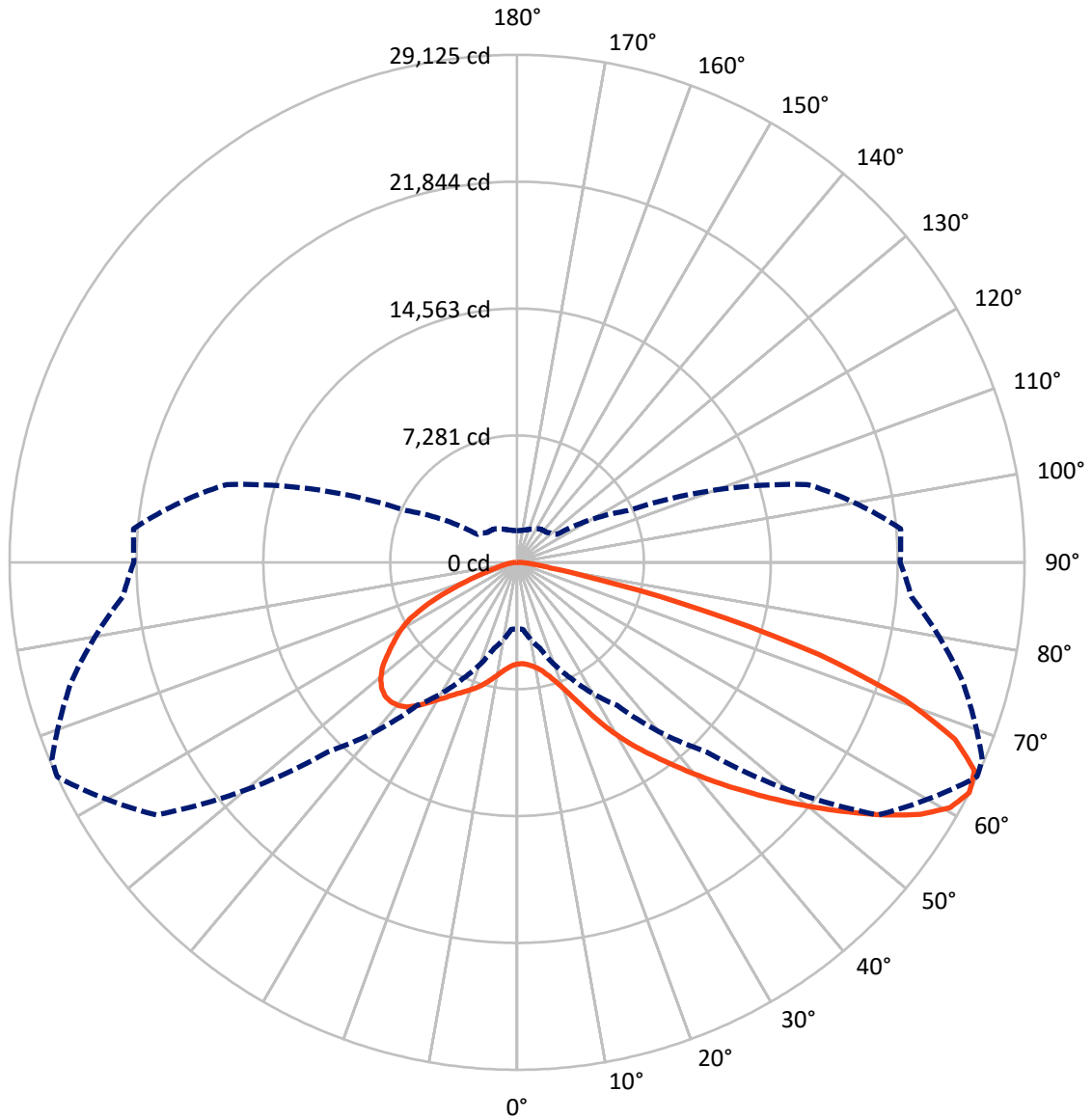
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.8 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral      - - - Horizontal Cone Through 62.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	16708.9	0.0	16708.9
	% Fixture	31.6	0.0	31.6
<b>Street Side</b>	Lumens	36241.6	0.0	36241.6
	% Fixture	68.4	0.0	68.4
<b>Total</b>	Lumens	52950.5	0.0	52950.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	581.7	1.1
10°-20°	1972.7	3.7
20°-30°	3999.9	7.6
30°-40°	6921.7	13.1
40°-50°	10474.7	19.8
50°-60°	12280.9	23.2
60°-70°	10296.1	19.4
70°-80°	5684.3	10.7
80°-90°	738.4	1.4
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°	52950.5	100.0
0°-180°	52950.5	100.0

**Coefficient of Utilization**

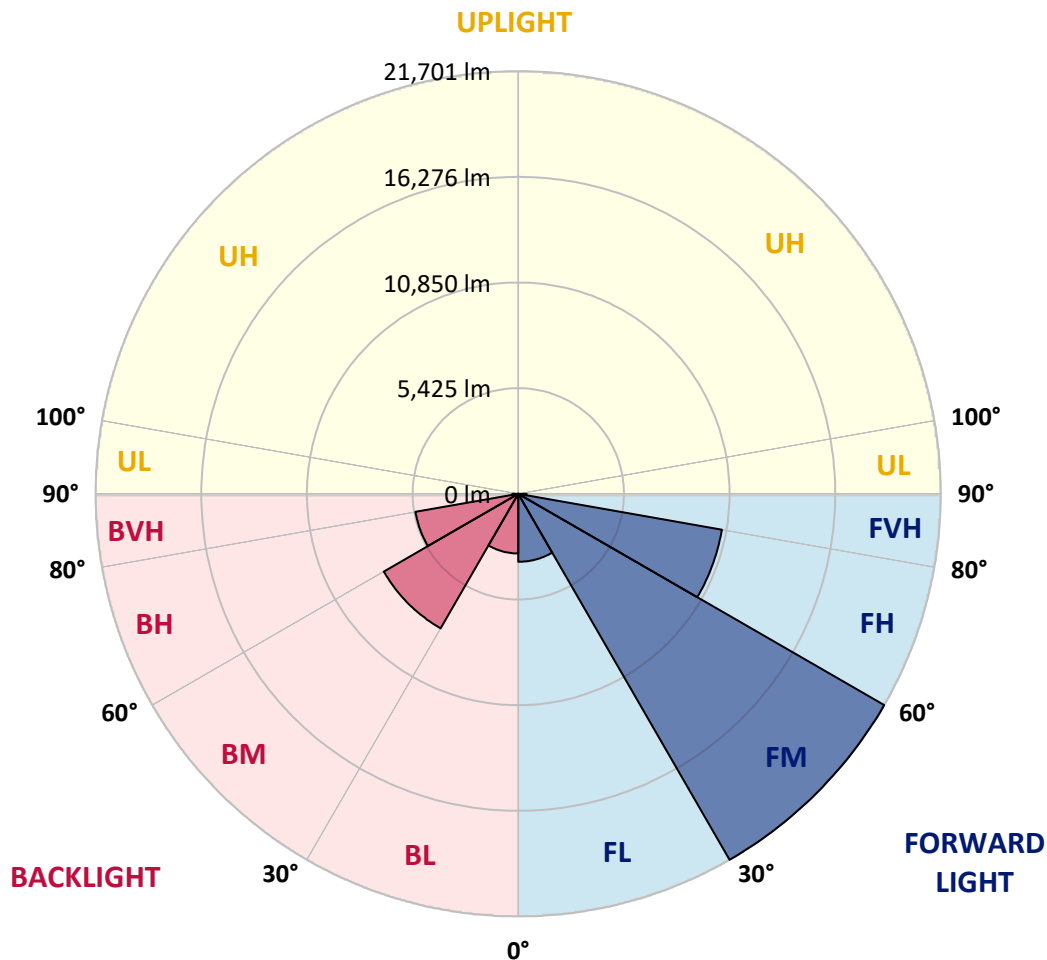


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3490.1	6.6			
FM (30°-60°)	21700.8	41.0			
FH (60°-80°)	10620.3	20.1			G4/12000
FVH (80°-90°)	430.3	0.8			G3/500
BL (0°-30°)	3064.2	5.8	B4/5000		
BM (30°-60°)	7976.6	15.1	B4/8500		
BH (60°-80°)	5360.1	10.1	B5		G5
BVH (80°-90°)	308.0	0.6			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B5-U0-G5**  
 Type II Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	5834.9	5834.9	5834.9	5834.9	5834.9	5834.9	5834.9	5834.9	5834.9	5834.9	5834.9
2.5°	5796.5	5780.0	5793.7	5793.7	5799.2	5796.5	5815.6	5821.2	5829.4	5845.9	5845.9
5°	5738.8	5736.0	5760.7	5782.7	5804.7	5823.9	5848.6	5884.3	5889.9	5909.1	5933.8
7.5°	5719.5	5703.1	5741.5	5769.0	5821.2	5867.9	5933.8	5994.2	6019.0	6027.2	6073.9
10°	5867.9	5840.4	5876.1	5892.6	5936.6	5983.2	6060.2	6156.4	6183.8	6216.7	6269.0
12.5°	6120.6	6090.3	6142.6	6167.3	6208.5	6249.7	6301.9	6395.3	6409.0	6469.5	6519.0
15°	6466.7	6431.1	6464.0	6494.2	6562.9	6601.4	6653.6	6744.2	6744.2	6790.9	6826.6
17.5°	6936.5	6889.8	6914.5	6925.5	6969.5	7027.2	7115.0	7194.8	7236.0	7219.5	7170.0
20°	7637.1	7579.4	7579.4	7524.4	7507.9	7554.7	7670.0	7779.9	7823.8	7738.6	7617.8
22.5°	8689.2	8606.7	8560.1	8373.2	8299.1	8304.6	8420.0	8554.5	8590.3	8439.2	8167.2
25°	10027.1	9897.9	9834.8	9560.1	9392.5	9246.8	9337.5	9510.6	9560.1	9373.2	8933.7
27.5°	11364.9	11373.1	11312.7	10983.1	10705.6	10439.1	10392.4	10573.7	10625.9	10414.4	9870.4
30°	13241.2	13046.1	12930.8	12535.1	12139.6	11766.0	11573.7	11647.9	11661.6	11408.9	10777.1
32.5°	14859.2	14809.8	14562.6	14216.4	13708.2	13123.1	12801.6	12683.6	12661.5	12301.6	11551.6
35°	16702.6	16675.1	16414.1	16002.1	15452.6	14639.5	14059.8	13722.0	13694.5	13189.0	12318.1
37.5°	18576.1	18576.1	18320.6	17870.2	17301.5	16285.0	15403.2	14867.5	14779.6	14120.3	13098.4
40°	20070.5	19979.9	20026.7	19837.0	19185.9	18106.3	16894.9	16117.4	15999.3	15208.1	13928.0
42.5°	20919.4	20889.2	21169.4	21381.0	21114.5	20251.8	18537.6	17471.7	17306.9	16405.8	14883.9
45°	21109.0	21076.0	21575.9	22350.6	22724.2	22369.9	20323.3	18897.5	18697.0	17658.6	15908.6
47.5°	20672.2	20606.3	21339.8	22562.2	23760.0	24383.5	22257.3	20444.1	20152.9	18878.3	16960.8
50°	19359.1	19295.8	20405.7	22029.3	24108.8	25751.6	24356.0	22084.2	21639.2	20185.9	18023.9
52.5°	16504.8	16535.0	18273.9	20504.6	23650.0	26603.3	26163.7	23812.2	23276.4	21523.8	19021.1
55°	12856.6	12922.5	15059.8	17515.7	21815.0	26474.1	27397.1	25592.3	25059.4	22782.0	20051.4
57.5°	9205.6	9496.8	11499.5	13930.7	18290.4	24427.5	27666.4	27284.6	26768.1	24155.6	21059.5
60°	5966.7	6019.0	8079.4	10529.7	13928.0	20790.3	27119.8	28567.5	28163.6	25556.6	21902.9
62.5°	3824.0	3859.7	5115.2	7365.0	10024.3	15381.3	25279.2	29125.1	29001.5	26482.4	22713.3
65°	2810.3	2782.9	3436.6	4867.9	6752.5	9485.9	21705.1	28855.9	29100.4	27062.0	23383.6
67.5°	2346.0	2307.6	2629.0	3370.7	4975.0	5387.1	16059.7	27106.0	28001.6	26996.0	23875.3
70°	2137.2	2104.3	2299.4	2502.6	3881.7	3607.0	8095.8	23565.0	24944.0	26246.2	23795.7
72.5°	1810.4	1752.6	2019.1	2222.4	3019.1	2766.4	3346.0	18100.9	19782.1	23842.4	22674.8
75°	1403.7	1365.3	1593.4	1956.0	2269.1	2159.3	2115.3	10991.3	12826.3	18438.7	19837.0
77.5°	1112.6	1060.4	1269.2	1524.7	2041.1	1629.0	1541.2	4733.3	6551.9	11771.5	14842.7
80°	837.8	791.2	964.2	1206.0	1568.7	1227.9	997.2	1931.2	2469.6	5964.1	7463.9
82.5°	596.1	554.9	673.0	884.6	1054.9	1101.6	612.6	1082.4	1217.0	2299.4	1667.5
85°	381.8	357.1	450.5	554.9	670.3	708.8	373.6	565.9	620.8	947.7	695.1
87.5°	208.8	170.4	241.8	258.2	310.5	283.0	178.6	206.0	222.5	343.4	294.0
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°	5834.9	5834.9	5834.9	5834.9	5834.9	5834.9	5834.9	5834.9	5834.9	5834.9	5834.9
2.5°	5856.8	5865.2	5892.6	5900.8	5920.1	5944.8	5961.3	5977.8	5977.8	5994.2	5994.2
5°	5936.6	5955.8	6013.5	6043.7	6093.1	6142.6	6172.9	6208.5	6230.5	6241.5	6247.0
7.5°	6090.3	6120.6	6203.0	6255.3	6340.3	6409.0	6455.8	6505.2	6516.2	6546.5	6535.4
10°	6299.1	6334.9	6428.3	6527.2	6628.9	6714.0	6757.9	6793.7	6807.4	6812.9	6799.1
12.5°	6538.2	6590.3	6711.3	6832.1	6939.2	7013.5	7024.4	7016.2	6977.7	6944.8	6944.8
15°	6832.1	6878.8	7013.5	7145.3	7249.7	7263.5	7194.8	7150.8	7104.1	7095.9	7095.9
17.5°	7183.7	7208.5	7332.1	7461.2	7469.5	7422.7	7321.1	7279.9	7236.0	7205.7	7208.5
20°	7593.1	7584.8	7672.7	7727.7	7670.0	7527.2	7373.3	7304.7	7260.7	7224.9	7227.7
22.5°	8082.0	8018.9	8007.9	7994.2	7840.3	7540.9	7332.1	7244.2	7175.5	7126.1	7142.5
25°	8793.6	8551.8	8384.3	8290.8	7944.7	7466.7	7200.2	7005.2	6876.1	6790.9	6823.8
27.5°	9683.7	9277.1	8854.1	8626.0	7944.7	7315.6	6881.5	6565.6	6354.1	6266.2	6310.2
30°	10532.5	10106.7	9483.1	9029.8	7925.5	7068.4	6367.8	5928.3	5681.1	5593.1	5645.4
32.5°	11257.8	10793.5	10150.7	9472.1	7878.8	6667.3	5730.6	5244.3	5005.3	4900.9	4953.1
35°	11930.8	11436.3	10820.9	9958.4	7755.2	6079.4	5030.0	4659.1	4392.6	4225.0	4280.0
37.5°	12620.3	12032.5	11455.5	10397.9	7532.6	5392.6	4491.5	4175.6	3862.5	3637.2	3697.7
40°	13370.3	12667.1	12134.1	10658.9	7167.3	4738.8	4074.0	3785.5	3453.1	3214.2	3260.8
42.5°	14246.7	13428.0	12889.6	10793.5	6667.3	4274.6	3802.0	3519.0	3205.9	3010.8	3049.3
45°	15161.4	14265.8	13579.1	10790.8	6109.6	4057.6	3714.1	3434.0	3087.8	2884.5	2917.5
47.5°	16120.2	15142.2	14175.2	10614.9	5626.1	4087.7	3664.7	3249.9	2868.1	2670.2	2697.7
50°	17081.7	16100.9	14752.1	10285.3	5420.1	4021.8	3480.6	2991.7	2541.1	2362.5	2373.5
52.5°	18035.0	17120.2	15249.3	9815.5	5211.3	3777.3	3244.3	2656.5	2406.5	2282.9	2282.9
55°	18993.7	18128.4	15790.5	9131.5	4689.4	3491.6	2848.8	2530.1	2299.4	2186.7	2175.8
57.5°	19955.2	19293.2	16304.3	8447.4	4032.8	3140.0	2631.8	2376.3	2192.2	2096.0	2079.6
60°	20955.1	20625.5	16834.4	7818.4	3384.4	2689.4	2472.4	2252.6	2065.9	1958.7	1950.5
62.5°	21985.3	22092.4	17249.2	7007.9	2788.3	2414.7	2329.6	2104.3	1923.0	1821.3	1818.6
65°	23023.8	23507.2	17521.2	5884.3	2260.8	2153.7	2175.8	1942.3	1758.2	1670.2	1667.5
67.5°	23806.6	24526.4	17444.3	4453.1	1854.3	1906.5	1983.5	1771.9	1598.8	1530.1	1532.9
70°	23894.6	24405.6	16686.1	3049.3	1552.2	1664.8	1769.2	1604.3	1425.8	1376.3	1379.0
72.5°	22724.2	22757.3	14573.6	1991.7	1313.1	1461.4	1543.9	1434.0	1261.0	1211.4	1208.8
75°	19655.7	18820.6	10700.1	1313.1	1098.9	1255.4	1332.4	1255.4	1087.8	1098.9	1060.4
77.5°	14892.2	13329.1	6497.0	934.0	917.6	1054.9	1159.3	1104.3	961.4	1079.6	950.5
80°	7672.7	7211.2	2898.2	697.8	725.3	843.4	953.2	881.8	761.0	725.3	662.0
82.5°	1758.2	2043.8	1142.8	500.0	524.7	607.1	728.0	662.0	546.6	461.6	456.0
85°	615.3	673.0	505.4	313.1	307.7	379.1	494.5	442.3	370.8	296.7	313.1
87.5°	195.1	255.5	189.5	126.4	131.8	170.4	228.1	208.8	173.0	112.6	118.1
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)