

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: P967175

Luminaire Tested: **NAV-SB4D-730-U-T2U**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P967175  
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-SB4D-730-U-T2U  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(4) 70 CRI, 3000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 42363.3 lumens  
Efficiency: N/A  
Efficacy: 144.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B4 - U0 - G4

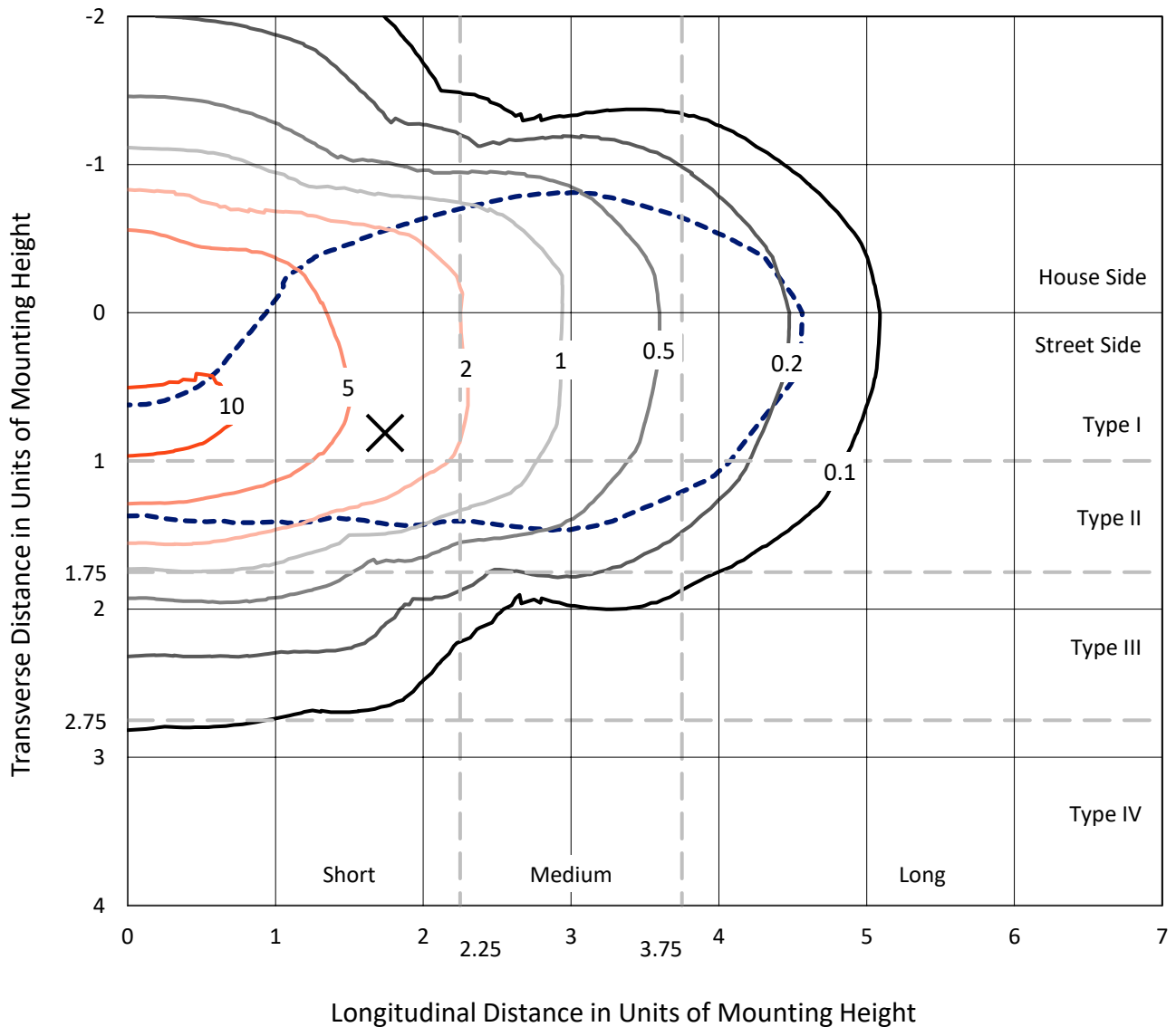
Input Watts (W): 293.6  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

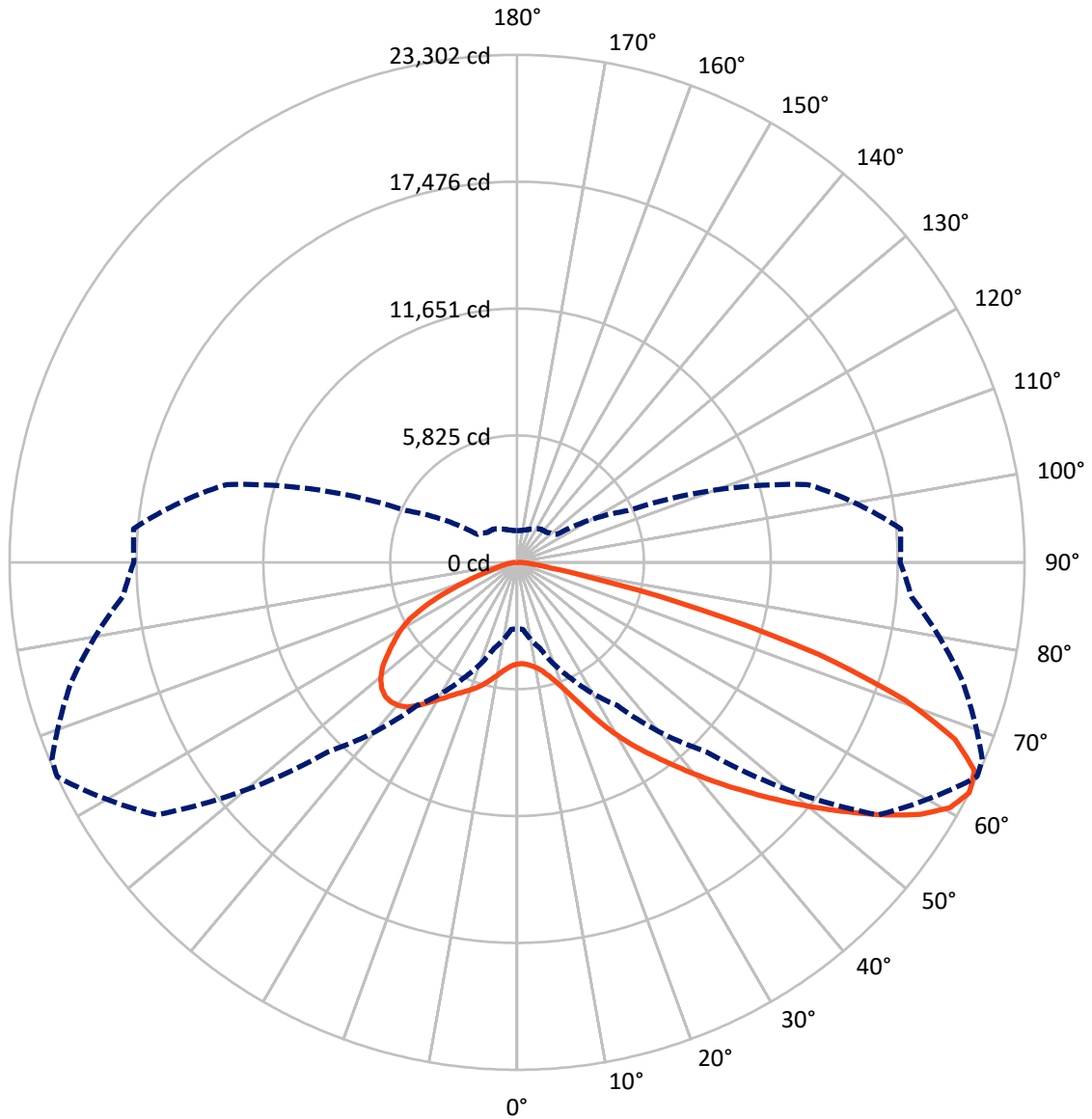
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.9 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	13368.0	0.0	13368.0
	% Fixture	31.6	0.0	31.6
<b>Street Side</b>	Lumens	28995.2	0.0	28995.2
	% Fixture	68.4	0.0	68.4
<b>Total</b>	Lumens	42363.3	0.0	42363.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	465.4	1.1
10°-20°	1578.3	3.7
20°-30°	3200.1	7.6
30°-40°	5537.8	13.1
40°-50°	8380.3	19.8
50°-60°	9825.4	23.2
60°-70°	8237.4	19.4
70°-80°	4547.7	10.7
80°-90°	590.7	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°	42363.3	100.0
0°-180°	42363.3	100.0

**Coefficient of Utilization**

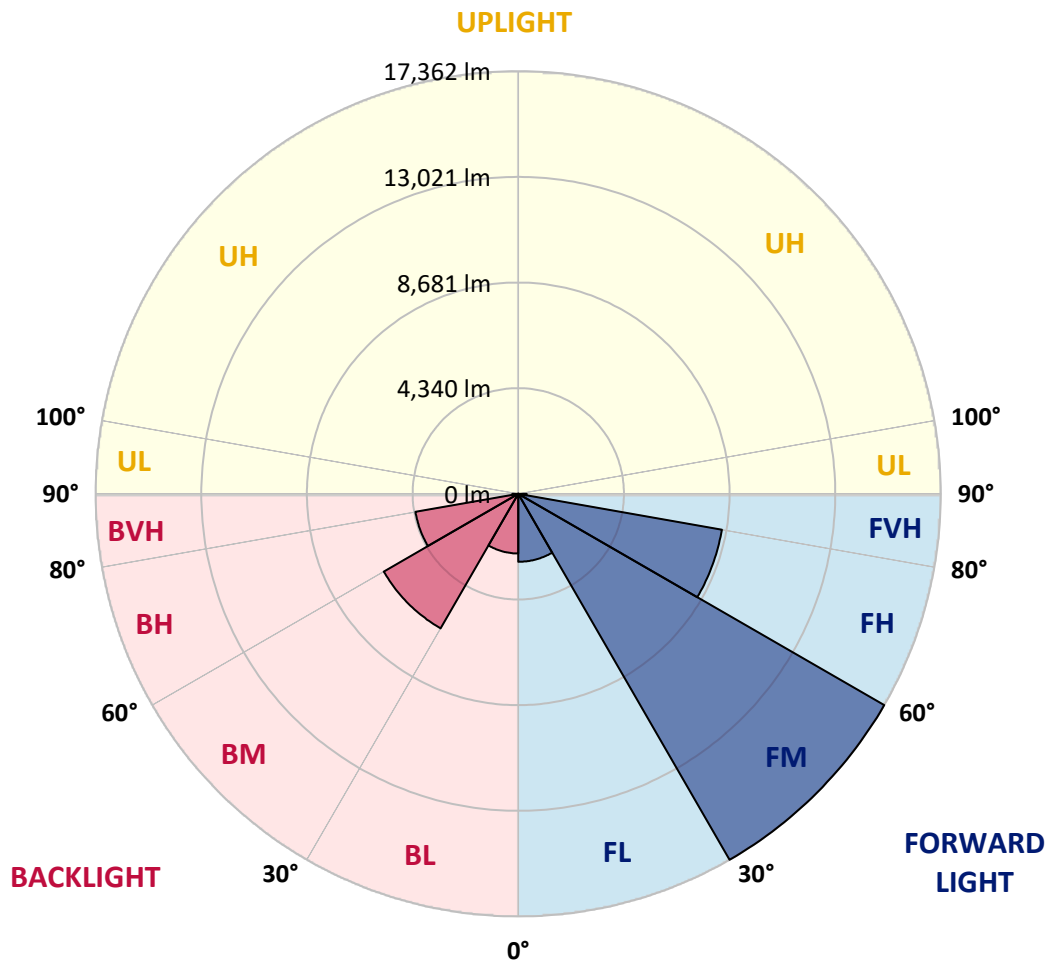


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2792.3	6.6			
FM (30°-60°)	17361.8	41.0			
FH (60°-80°)	8496.8	20.1			G4/12000
FVH (80°-90°)	344.3	0.8			G3/500
BL (0°-30°)	2451.5	5.8	B3/2500		
BM (30°-60°)	6381.7	15.1	B4/8500		
BH (60°-80°)	4288.3	10.1	B4/5000		G4/5000
BVH (80°-90°)	246.4	0.6			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G4**  
 Type II Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	4668.3	4668.3	4668.3	4668.3	4668.3	4668.3	4668.3	4668.3	4668.3	4668.3	4668.3
2.5°	4637.5	4624.3	4635.3	4635.3	4639.7	4637.5	4652.9	4657.3	4663.9	4677.1	4677.1
5°	4591.3	4589.1	4608.9	4626.4	4644.1	4659.4	4679.2	4707.8	4712.2	4727.6	4747.4
7.5°	4575.9	4562.8	4593.5	4615.5	4657.3	4694.6	4747.4	4795.8	4815.6	4822.1	4859.4
10°	4694.6	4672.7	4701.3	4714.4	4749.5	4787.0	4848.5	4925.4	4947.4	4973.7	5015.5
12.5°	4896.8	4872.6	4914.4	4934.1	4967.2	5000.2	5041.9	5116.6	5127.6	5175.9	5215.5
15°	5173.8	5145.2	5171.5	5195.7	5250.7	5281.4	5323.2	5395.7	5395.7	5433.1	5461.7
17.5°	5549.6	5512.2	5532.0	5540.8	5576.0	5622.1	5692.4	5756.2	5789.2	5776.0	5736.4
20°	6110.0	6063.9	6063.9	6019.9	6006.7	6044.1	6136.4	6224.3	6259.5	6191.4	6094.6
22.5°	6951.9	6885.8	6848.5	6699.1	6639.7	6644.2	6736.4	6844.1	6872.7	6751.8	6534.3
25°	8022.2	7918.8	7868.3	7648.6	7514.5	7397.9	7470.5	7609.0	7648.6	7499.1	7147.4
27.5°	9092.6	9099.1	9050.8	8787.0	8565.0	8351.8	8314.5	8459.5	8501.3	8332.1	7896.9
30°	10593.7	10437.6	10345.3	10028.8	9712.3	9413.4	9259.5	9318.9	9329.9	9127.7	8622.2
32.5°	11888.2	11848.7	11650.9	11373.9	10967.3	10499.2	10242.0	10147.5	10129.9	9842.0	9242.0
35°	13362.9	13341.0	13132.2	12802.6	12362.9	11712.4	11248.7	10978.3	10956.3	10551.9	9855.2
37.5°	14861.9	14861.9	14657.5	14297.0	13842.1	13028.9	12323.4	11894.8	11824.5	11296.9	10479.4
40°	16057.5	15985.0	16022.4	15870.7	15349.8	14486.1	13516.8	12894.8	12800.3	12167.4	11143.1
42.5°	16736.7	16712.5	16936.7	17105.9	16892.7	16202.6	14831.1	13978.3	13846.5	13125.6	11907.9
45°	16888.3	16862.0	17261.9	17881.7	18180.6	17897.1	16259.8	15119.1	14958.6	14127.8	12727.8
47.5°	16538.9	16486.1	17072.9	18051.0	19009.2	19508.2	17807.0	16356.4	16123.5	15103.7	13569.6
50°	15488.3	15437.7	16325.7	17624.6	19288.3	20602.7	19486.2	17668.5	17312.6	16149.8	14420.1
52.5°	13204.8	13228.9	14620.2	16404.8	18921.3	21284.0	20932.3	19051.1	18622.4	17220.2	15218.0
55°	10286.0	10338.8	12048.7	14013.5	17453.2	21180.7	21919.2	20475.2	20048.8	18226.9	16042.2
57.5°	7365.0	7598.0	9200.2	11145.3	14633.3	19543.4	22134.6	21829.1	21415.9	19325.8	16848.7
60°	4773.7	4815.6	6463.9	8424.4	11143.1	16633.4	21697.2	22855.6	22532.4	20446.7	17523.5
62.5°	3059.4	3088.0	4092.4	5892.4	8020.0	12305.8	20224.7	23301.6	23202.7	21187.4	18171.9
65°	2248.4	2226.4	2749.6	3894.6	5402.4	7589.2	17365.2	23086.3	23281.8	21651.1	18708.2
67.5°	1877.0	1846.2	2103.3	2696.8	3980.3	4310.0	12848.7	21686.2	22402.7	21598.3	19101.6
70°	1709.9	1683.6	1839.6	2002.2	3105.5	2885.8	6477.1	18853.2	19956.5	20998.4	19037.8
72.5°	1448.4	1402.2	1615.4	1778.1	2415.4	2213.3	2677.0	14481.7	15826.7	19075.1	18141.1
75°	1123.1	1092.3	1274.8	1564.9	1815.5	1727.5	1692.4	8793.6	10261.8	14752.0	15870.7
77.5°	890.1	848.4	1015.4	1219.9	1633.0	1303.3	1233.0	3786.9	5241.8	9417.8	11875.0
80°	670.3	632.9	771.4	964.8	1255.0	982.5	797.9	1545.1	1975.9	4771.6	5971.5
82.5°	476.9	443.9	538.4	707.7	844.0	881.3	490.2	865.9	973.6	1839.6	1334.1
85°	305.6	285.8	360.5	443.9	536.3	567.0	298.9	452.7	496.7	758.3	556.1
87.5°	167.1	136.2	193.4	206.6	248.4	226.4	142.9	164.8	178.0	274.7	235.1
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°	4668.3	4668.3	4668.3	4668.3	4668.3	4668.3	4668.3	4668.3	4668.3	4668.3	4668.3
2.5°	4685.8	4692.4	4714.4	4720.9	4736.4	4756.2	4769.3	4782.5	4782.5	4795.8	4795.8
5°	4749.5	4764.9	4811.1	4835.2	4874.8	4914.4	4938.6	4967.2	4984.8	4993.5	4997.9
7.5°	4872.6	4896.8	4962.7	5004.6	5072.6	5127.6	5165.0	5204.5	5213.4	5237.4	5228.7
10°	5039.7	5068.2	5142.9	5222.1	5303.5	5371.5	5406.8	5435.3	5446.3	5450.6	5439.7
12.5°	5230.9	5272.7	5369.4	5466.0	5551.8	5611.2	5619.9	5613.3	5582.6	5556.2	5556.2
15°	5466.0	5503.4	5611.2	5716.6	5800.2	5811.1	5756.2	5721.0	5683.6	5677.1	5677.1
17.5°	5747.4	5767.2	5866.1	5969.4	5976.0	5938.6	5857.3	5824.4	5789.2	5765.0	5767.2
20°	6074.9	6068.3	6138.6	6182.6	6136.4	6022.1	5899.1	5844.1	5809.0	5780.4	5782.5
22.5°	6466.1	6415.6	6406.8	6395.8	6272.7	6033.2	5866.1	5795.8	5740.8	5701.3	5714.4
25°	7035.3	6841.9	6707.9	6633.1	6356.2	5973.8	5760.6	5604.5	5501.3	5433.1	5459.5
27.5°	7747.5	7422.1	7083.7	6901.2	6356.2	5852.9	5505.6	5252.9	5083.7	5013.3	5048.4
30°	8426.6	8085.9	7587.0	7224.3	6340.9	5655.1	5094.7	4743.0	4545.2	4474.8	4516.6
32.5°	9006.8	8635.4	8121.1	7578.2	6303.4	5334.2	4584.7	4195.7	4004.5	3920.9	3962.8
35°	9545.3	9149.7	8657.4	7967.2	6204.5	4863.8	4024.3	3727.5	3514.4	3380.3	3424.2
37.5°	10097.0	9626.6	9165.0	8318.9	6026.5	4314.4	3593.4	3340.8	3090.2	2910.0	2958.4
40°	10697.0	10134.3	9708.0	8527.7	5734.2	3791.3	3259.4	3028.7	2762.7	2571.5	2608.8
42.5°	11398.1	10743.1	10312.3	8635.4	5334.2	3419.9	3041.8	2815.5	2564.9	2408.9	2439.6
45°	12130.0	11413.5	10864.0	8633.2	4888.0	3246.3	2971.5	2747.3	2470.4	2307.8	2334.1
47.5°	12897.1	12114.6	11340.9	8492.5	4501.2	3270.4	2931.9	2600.0	2294.6	2136.3	2158.3
50°	13666.2	12881.6	11802.5	8228.8	4336.4	3217.7	2784.7	2393.5	2033.0	1890.2	1898.9
52.5°	14428.9	13697.1	12200.3	7852.9	4169.3	3022.0	2595.7	2125.3	1925.4	1826.4	1826.4
55°	15195.9	14503.6	12633.2	7305.7	3751.7	2793.4	2279.2	2024.3	1839.6	1749.5	1740.7
57.5°	15965.2	15435.6	13044.3	6758.4	3226.5	2512.2	2105.6	1901.2	1753.9	1677.0	1663.8
60°	16765.2	16501.5	13468.5	6255.1	2707.7	2151.7	1978.0	1802.3	1652.8	1567.1	1560.5
62.5°	17589.4	17675.2	13800.3	5606.7	2230.8	1931.9	1863.8	1683.6	1538.5	1457.1	1455.0
65°	18420.3	18807.0	14017.9	4707.8	1808.8	1723.1	1740.7	1553.9	1406.6	1336.3	1334.1
67.5°	19046.7	19622.5	13956.4	3562.7	1483.6	1525.3	1586.8	1417.6	1279.2	1224.2	1226.4
70°	19117.0	19525.7	13349.8	2439.6	1241.8	1331.9	1415.4	1283.5	1140.7	1101.2	1103.3
72.5°	18180.6	18207.1	11659.6	1593.5	1050.6	1169.2	1235.2	1147.3	1008.8	969.2	967.1
75°	15725.7	15057.6	8560.7	1050.6	879.1	1004.4	1066.0	1004.4	870.3	879.1	848.4
77.5°	11914.6	10664.0	5198.0	747.2	734.1	844.0	927.5	883.6	769.3	863.8	760.4
80°	6138.6	5769.4	2318.8	558.2	580.3	674.8	762.7	705.5	608.8	580.3	529.7
82.5°	1406.6	1635.2	914.3	400.1	419.8	485.7	582.4	529.7	437.4	369.2	364.8
85°	492.3	538.4	404.4	250.5	246.2	303.3	395.6	353.8	296.7	237.4	250.5
87.5°	156.0	204.4	151.7	101.1	105.5	136.2	182.4	167.1	138.5	90.1	94.5
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)