

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: P967114

Luminaire Tested: **NAV-SB4D-722-U-T2**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P967114  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-3)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMARK  
Catalog Number: NAV-SB4D-722-U-T2  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(4) 70 CRI, 2200K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 34216.6 lumens  
Efficiency: N/A  
Efficacy: 116.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B4 - U0 - G4

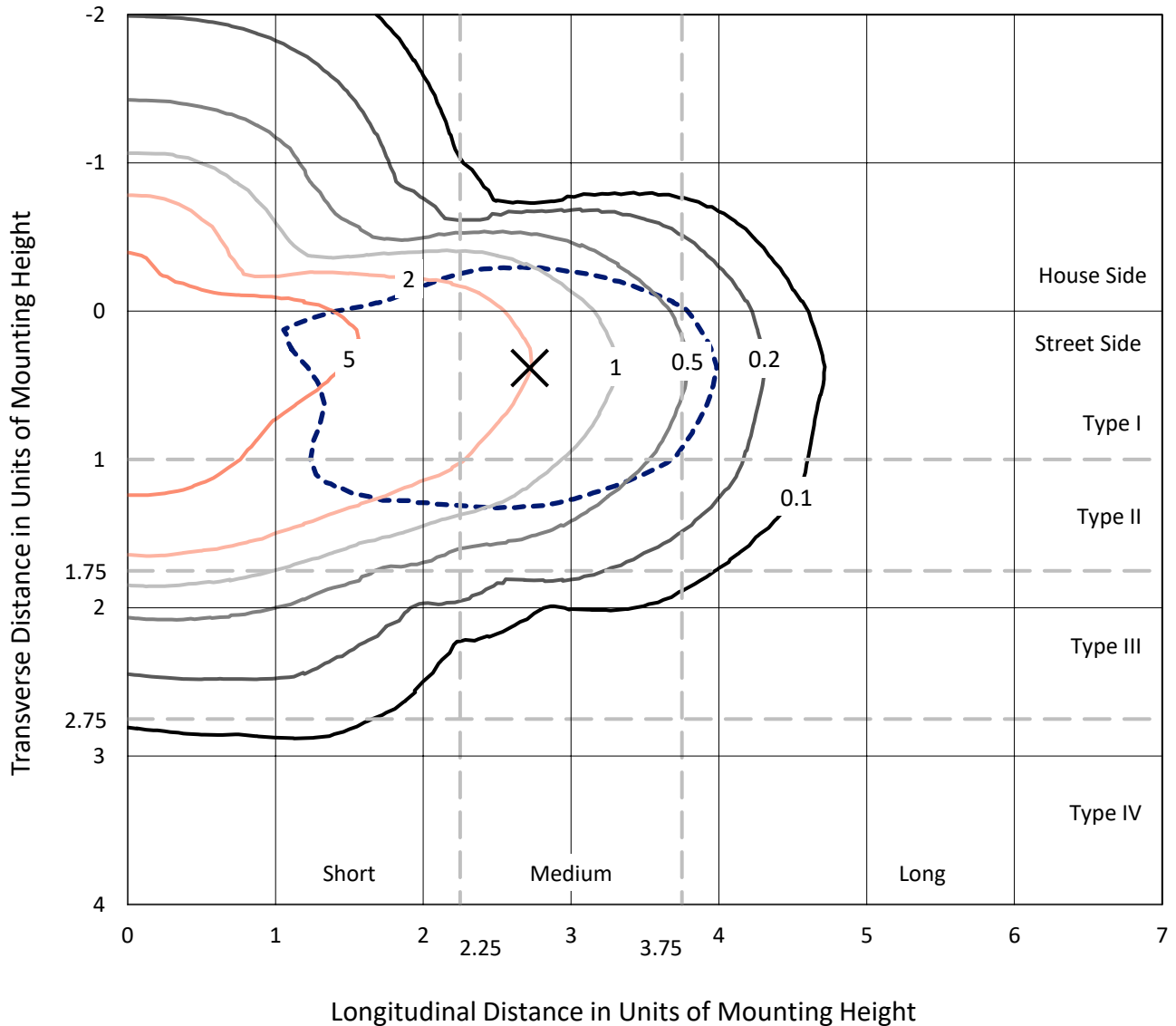
Input Watts (W): 293.6  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

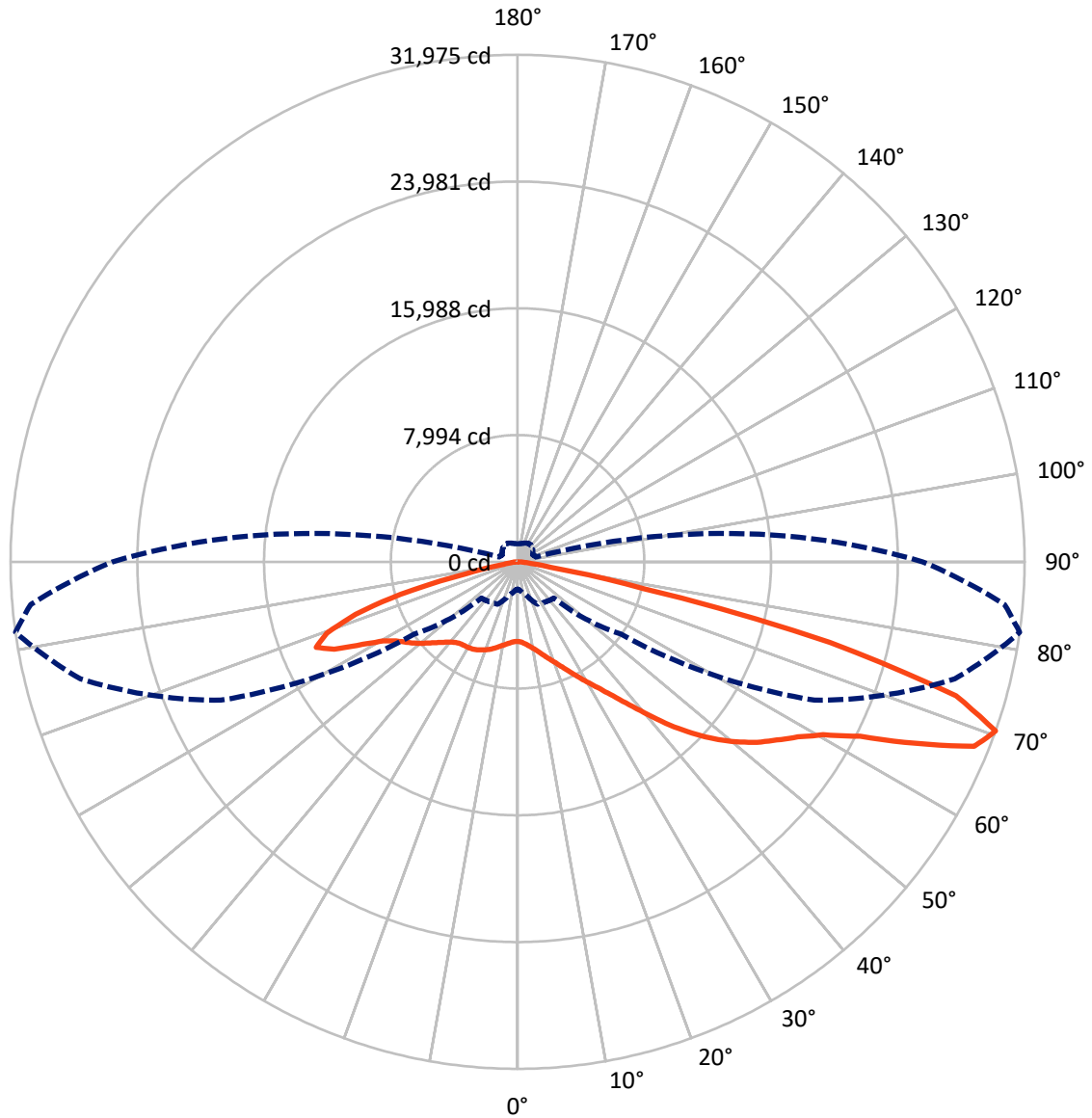
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.1 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 82-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	8435.2	0.0	8435.2
	% Fixture	24.7	0.0	24.7
<b>Street Side</b>	Lumens	25781.3	0.0	25781.3
	% Fixture	75.3	0.0	75.3
<b>Total</b>	Lumens	34216.6	0.0	34216.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	473.7	1.4
10°-20°	1360.8	4.0
20°-30°	2276.5	6.7
30°-40°	3556.5	10.4
40°-50°	5664.2	16.6
50°-60°	7882.4	23.0
60°-70°	8245.4	24.1
70°-80°	4309.5	12.6
80°-90°	447.5	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°	34216.6	100.0
0°-180°	34216.6	100.0

**Coefficient of Utilization**

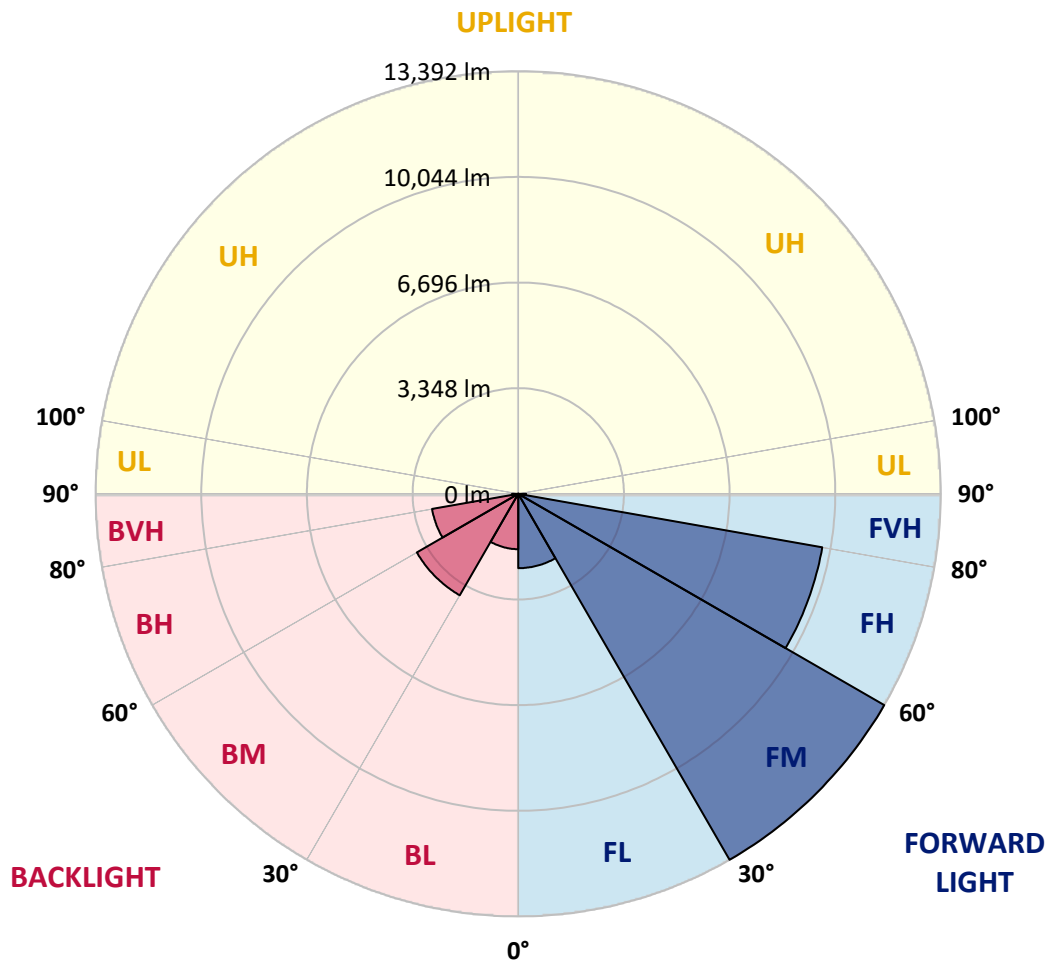


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2356.2	6.9			
FM (30°-60°)	13392.0	39.1			
FH (60°-80°)	9782.6	28.6			G4/12000
FVH (80°-90°)	250.5	0.7			G3/500
BL (0°-30°)	1754.8	5.1	B3/2500		
BM (30°-60°)	3711.2	10.8	B3/5000		
BH (60°-80°)	2772.2	8.1	B4/5000		G4/5000
BVH (80°-90°)	197.0	0.6			G2/225
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 Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°	85°
0°	5016.6	5016.6	5016.6	5016.6	5016.6	5016.6	5016.6	5016.6	5016.6	5016.6	5016.6
2.5°	5136.4	5165.5	5156.4	5147.3	5147.3	5134.6	5132.8	5114.6	5100.1	5076.5	5071.1
5°	5201.8	5232.6	5229.0	5236.3	5259.9	5265.3	5270.8	5259.9	5230.8	5201.8	5189.1
7.5°	5143.7	5178.2	5189.1	5232.6	5305.3	5370.6	5419.7	5439.6	5412.4	5370.6	5350.6
10°	4947.6	4985.7	5023.8	5127.4	5256.2	5410.6	5541.3	5619.4	5613.9	5574.0	5539.5
12.5°	4550.0	4590.0	4671.6	4873.2	5109.2	5381.6	5624.8	5788.2	5844.5	5815.4	5755.6
15°	4232.2	4266.8	4328.5	4535.4	4842.3	5256.2	5655.6	5973.4	6116.9	6100.5	6027.9
17.5°	4223.1	4237.7	4275.8	4373.9	4609.8	5060.1	5622.9	6155.0	6429.1	6427.4	6336.5
20°	4382.9	4388.3	4410.2	4430.2	4564.5	4911.3	5539.5	6305.7	6779.6	6779.6	6681.5
22.5°	4604.4	4600.8	4622.5	4604.4	4669.8	4898.6	5486.8	6438.2	7169.9	7199.0	7075.5
25°	4936.7	4918.6	4913.1	4871.3	4884.0	5016.6	5544.9	6588.9	7632.9	7692.8	7538.5
27.5°	5379.7	5350.6	5330.7	5234.5	5201.8	5259.9	5722.9	6770.4	8148.5	8252.1	8055.9
30°	5957.1	5904.4	5875.4	5708.3	5590.3	5599.4	5991.5	7011.9	8687.8	8854.8	8606.1
32.5°	6745.0	6663.3	6585.3	6311.1	6095.1	6024.2	6338.4	7346.1	9272.4	9539.3	9219.8
35°	7627.4	7562.0	7478.6	7055.5	6723.3	6559.9	6806.8	7812.7	9956.8	10380.0	9964.1
37.5°	8477.2	8420.9	8460.9	7890.8	7462.2	7224.4	7420.5	8439.0	10801.1	11425.8	10897.4
40°	9355.9	9312.3	9317.8	8773.1	8273.8	8006.9	8164.8	9225.2	11768.8	12669.4	12019.5
42.5°	10311.0	10278.3	10169.3	9686.4	9125.4	8876.6	9021.8	10133.0	12807.4	14085.7	13250.5
45°	11380.4	11360.4	11258.7	10704.9	10062.2	9782.6	9978.7	11135.2	13851.4	15418.3	14486.8
47.5°	12304.5	12320.8	12308.1	11841.5	11175.2	10764.9	10999.1	12181.0	14822.7	16671.1	15672.5
50°	12749.4	12834.6	12959.9	12814.7	12400.8	11983.2	12028.5	13190.5	15748.7	17845.8	16809.1
52.5°	12516.9	12678.5	13019.9	13252.2	13412.0	13324.9	13203.2	14192.8	16620.3	18906.1	17883.9
55°	11650.9	11877.8	12444.3	13005.3	13820.6	14454.2	14613.9	15303.9	17470.0	19839.4	18900.7
57.5°	10073.1	10441.7	10950.1	12084.9	13457.4	15000.7	16259.0	16845.4	18370.5	20836.1	19964.6
60°	7367.8	7861.6	8493.5	10182.0	12186.4	14708.3	17658.8	19212.9	19650.5	22127.0	21349.9
62.5°	4715.2	5020.2	5601.2	7191.7	9495.7	13210.5	18087.3	22172.4	21820.2	24244.0	23427.0
65°	3228.1	3424.3	3956.3	4849.6	6138.6	9833.4	16939.8	24391.1	25266.2	27599.4	26978.4
67.5°	2345.8	2494.6	2948.6	3731.1	3999.9	5819.1	13145.1	24289.4	28616.1	31056.3	30090.4
70°	1710.3	1815.6	2196.9	2948.6	3077.5	3237.3	7963.3	20647.3	28543.5	31975.0	30818.5
72.5°	1267.3	1340.0	1595.9	2287.7	2491.1	2186.0	3941.7	15006.1	24527.3	28921.1	27993.4
75°	916.9	971.4	1160.2	1750.3	1993.5	1664.9	1966.4	8769.5	17108.7	20344.1	20507.5
77.5°	700.8	742.6	866.0	1281.9	1595.9	1249.2	1220.1	4034.3	8112.3	8152.1	8609.7
80°	562.8	590.1	657.2	902.4	1223.7	935.0	795.2	1628.6	2563.6	2169.7	2276.8
82.5°	414.0	459.3	555.6	633.7	875.1	644.5	484.7	822.5	975.0	838.9	846.0
85°	236.1	266.9	335.9	453.9	559.2	394.0	277.8	364.9	453.9	372.2	332.3
87.5°	83.5	109.0	118.0	177.9	243.3	163.4	107.1	105.3	148.9	110.8	92.6
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°	5016.6	5016.6	5016.6	5016.6	5016.6	5016.6	5016.6	5016.6	5016.6	5016.6	5016.6
2.5°	5052.8	5043.8	5007.5	4958.4	4907.6	4858.6	4842.3	4807.8	4784.2	4771.5	4786.0
5°	5154.5	5125.5	5040.1	4931.3	4816.9	4693.4	4606.2	4526.4	4468.3	4413.8	4435.6
7.5°	5299.8	5249.0	5101.9	4911.3	4707.9	4502.7	4350.2	4234.1	4156.0	4105.1	4116.0
10°	5468.7	5390.6	5165.5	4880.4	4566.3	4272.2	4092.4	3992.6	3943.6	3916.3	3923.6
12.5°	5662.9	5552.2	5230.8	4809.6	4350.2	4014.3	3890.9	3861.8	3863.6	3865.5	3869.1
15°	5902.6	5748.3	5283.5	4655.2	4068.8	3816.5	3794.7	3841.9	3890.9	3914.5	3912.6
17.5°	6173.2	5955.2	5292.6	4401.0	3792.8	3689.4	3758.4	3860.0	3934.5	3967.2	3974.4
20°	6463.6	6165.9	5227.2	4041.6	3565.9	3585.9	3709.4	3840.1	3921.8	3963.5	3974.4
22.5°	6795.9	6391.0	5071.1	3664.0	3380.7	3473.3	3618.6	3745.7	3830.9	3872.8	3883.6
25°	7175.3	6643.3	4825.9	3346.2	3221.0	3346.2	3491.5	3596.7	3665.7	3703.8	3714.8
27.5°	7596.6	6906.7	4499.1	3093.9	3081.1	3215.4	3335.4	3417.0	3453.3	3482.3	3493.3
30°	8019.6	7146.3	4103.3	2903.2	2959.5	3086.6	3171.9	3208.2	3219.1	3224.5	3237.3
32.5°	8477.2	7353.2	3687.5	2745.3	2843.2	2961.3	3012.2	3028.5	2977.6	2943.1	2954.0
35°	9031.0	7574.7	3280.8	2619.9	2728.9	2830.5	2846.9	2832.4	2772.4	2701.7	2705.3
37.5°	9715.5	7850.8	2955.8	2531.0	2621.7	2689.0	2669.0	2665.3	2670.7	2587.3	2592.7
40°	10554.2	8210.2	2718.0	2461.9	2534.6	2549.2	2492.9	2523.8	2550.9	2423.8	2427.5
42.5°	11485.6	8644.2	2567.3	2414.8	2461.9	2427.5	2340.4	2374.8	2371.2	2204.2	2202.3
45°	12435.2	9116.2	2514.6	2380.3	2394.8	2325.8	2229.6	2238.7	2162.4	2011.7	2017.2
47.5°	13379.3	9622.8	2547.3	2351.2	2311.3	2233.3	2158.8	2118.9	2006.2	1893.7	1893.7
50°	14305.3	10154.8	2667.2	2293.1	2196.9	2151.5	2097.0	2026.2	1906.4	1810.2	1802.9
52.5°	15164.2	10690.4	2801.5	2196.9	2053.5	2080.8	2046.2	1964.5	1846.5	1748.4	1750.3
55°	15977.5	11226.0	2854.2	2064.4	1919.1	2018.9	1999.0	1848.3	1706.7	1626.8	1619.5
57.5°	16863.5	11870.5	2796.1	1895.5	1810.2	1948.2	1872.0	1704.9	1623.2	1563.2	1557.8
60°	18090.9	12881.9	2670.7	1686.7	1706.7	1842.8	1712.2	1643.2	1554.2	1487.0	1483.4
62.5°	20129.9	14768.3	2469.2	1479.7	1585.1	1686.7	1635.9	1566.9	1476.1	1410.7	1410.7
65°	23143.8	17390.0	2089.8	1318.1	1448.8	1534.2	1554.2	1485.2	1390.7	1321.7	1325.4
67.5°	25685.7	19035.1	1581.4	1183.8	1309.0	1410.7	1467.0	1399.8	1300.0	1232.8	1234.6
70°	25545.9	17840.3	1207.3	1051.2	1185.6	1289.1	1361.7	1309.0	1201.9	1138.4	1143.8
72.5°	22689.9	14924.4	976.8	916.9	1060.4	1162.0	1249.2	1209.2	1100.2	1038.5	1038.5
75°	16669.3	10594.2	780.7	780.7	904.2	1029.5	1125.7	1100.2	1000.4	956.8	944.1
77.5°	7026.5	4444.6	611.8	648.2	751.6	884.2	1004.1	1013.1	926.0	980.4	889.7
80°	1868.3	1225.6	466.6	510.1	590.1	729.9	873.3	869.7	775.3	724.5	673.6
82.5°	711.8	483.0	332.3	359.5	426.7	559.2	691.8	713.5	619.1	535.6	535.6
85°	274.2	206.9	205.2	216.1	248.8	370.4	522.9	541.1	466.6	395.9	408.6
87.5°	70.8	61.7	76.3	72.7	114.4	197.9	299.6	310.5	285.1	165.2	236.1
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)