

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: P968695

Luminaire Tested: **NAV-SB5C-722-U-T2**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P968695  
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-SB5C-722-U-T2  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(5) 70 CRI, 2200K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 31739.1 lumens  
Efficiency: N/A  
Efficacy: 127.2 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B4 - U0 - G4

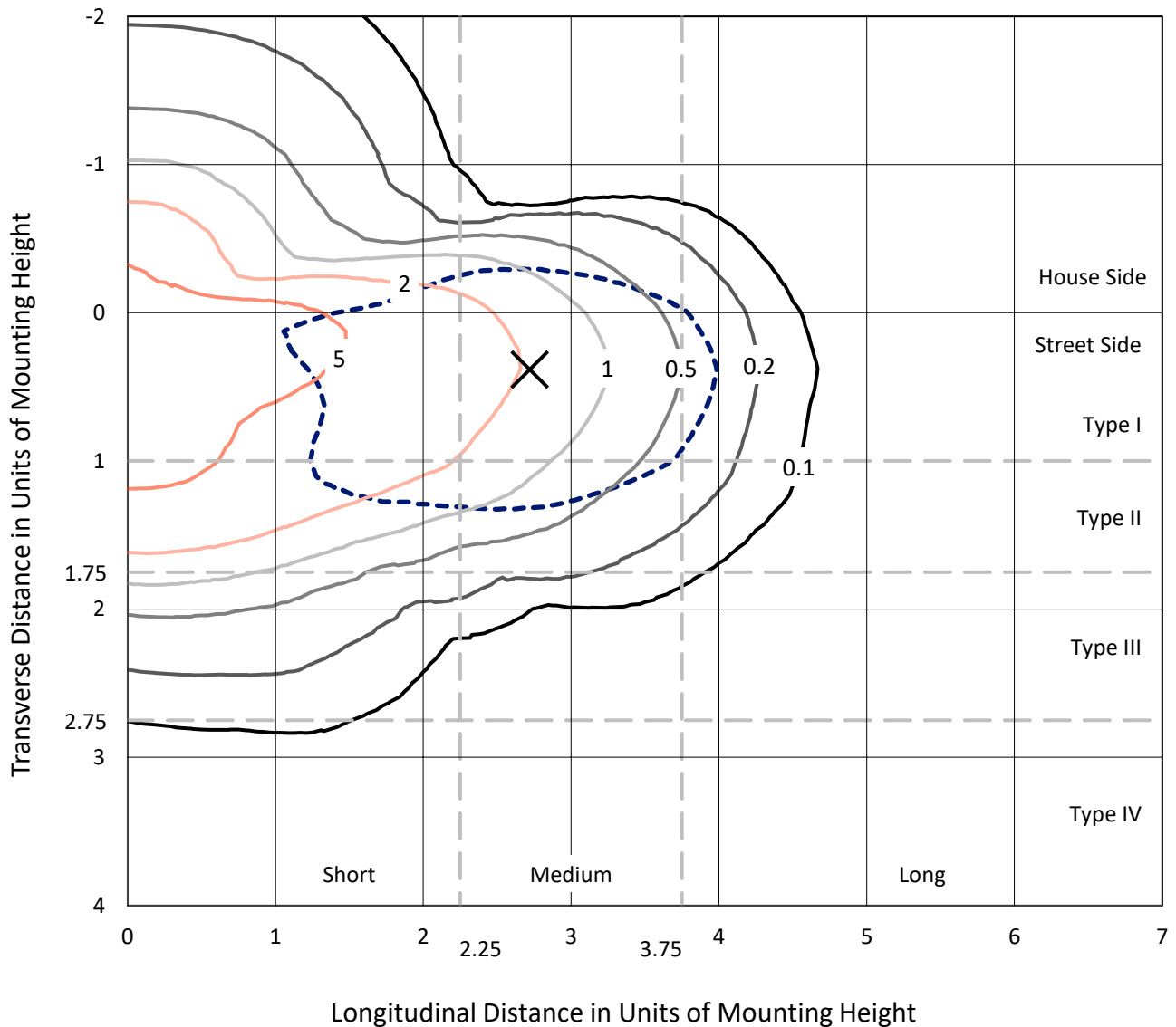
Input Watts (W): 249.5  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

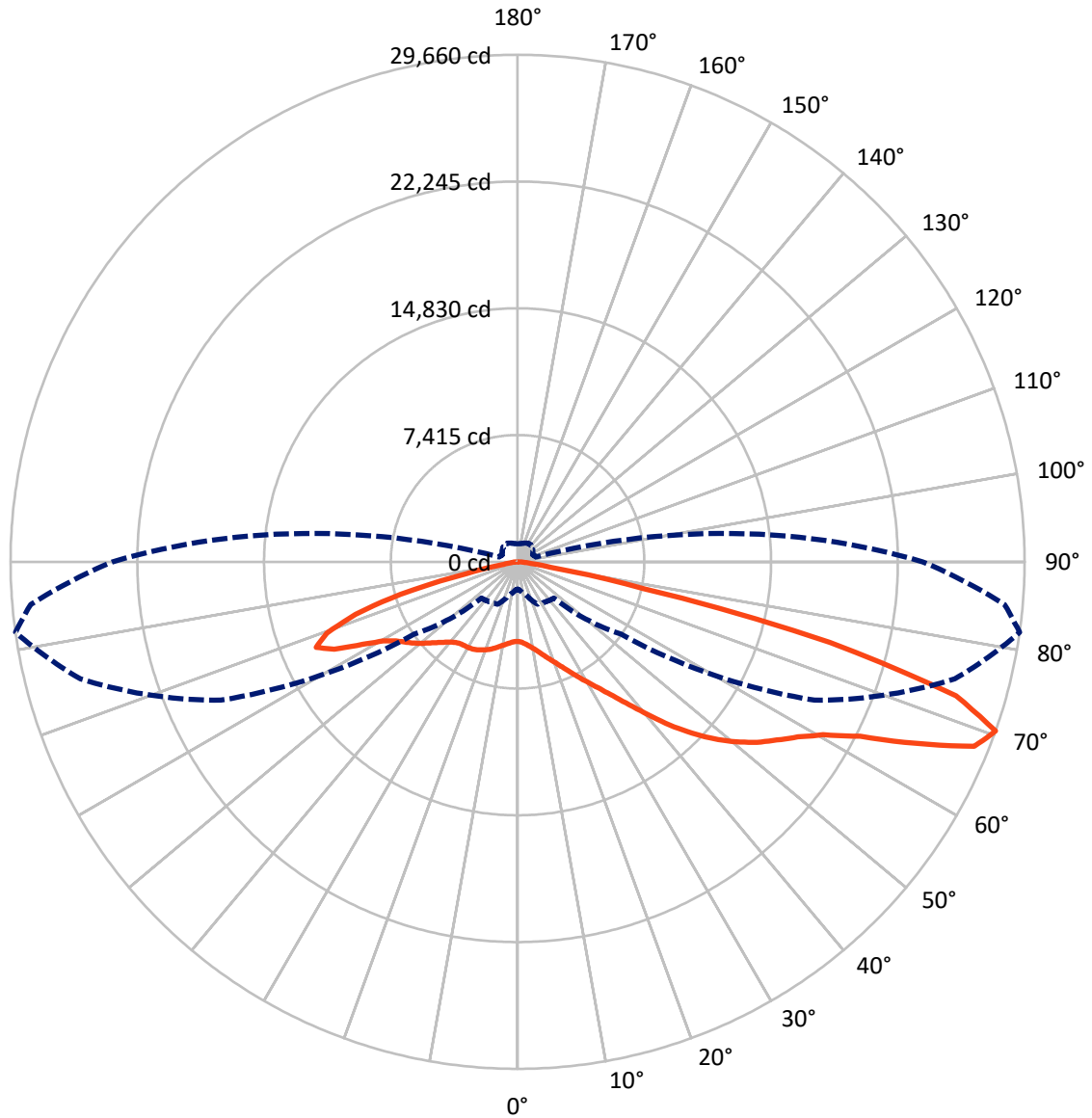
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.5 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	7824.5	0.0	7824.5
	% Fixture	24.7	0.0	24.7
<b>Street Side</b>	Lumens	23914.7	0.0	23914.7
	% Fixture	75.3	0.0	75.3
<b>Total</b>	Lumens	31739.1	0.0	31739.1
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	439.4	1.4
10°-20°	1262.3	4.0
20°-30°	2111.7	6.7
30°-40°	3299.0	10.4
40°-50°	5254.1	16.6
50°-60°	7311.7	23.0
60°-70°	7648.4	24.1
70°-80°	3997.5	12.6
80°-90°	415.1	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°	31739.1	100.0
0°-180°	31739.1	100.0

**Coefficient of Utilization**

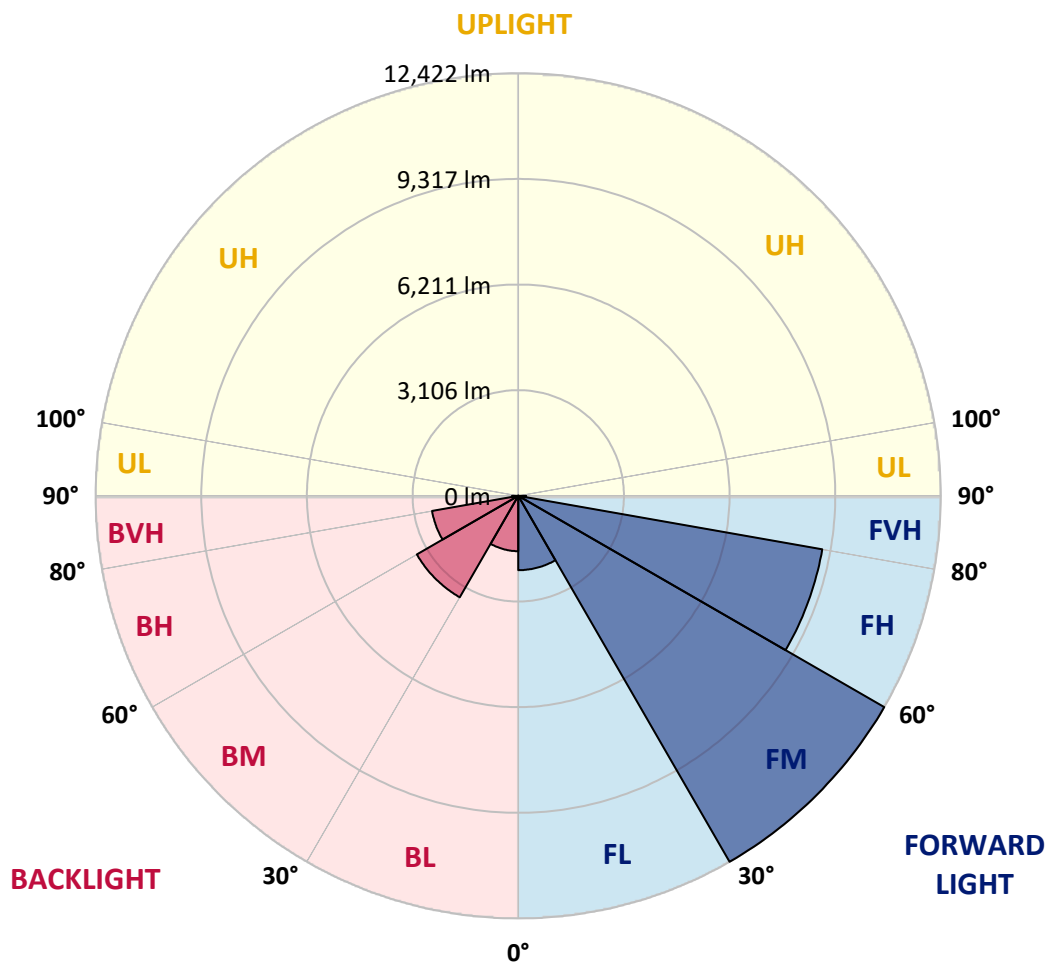


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2185.6	6.9			
FM (30°-60°)	12422.4	39.1			
FH (60°-80°)	9074.3	28.6			G4/12000
FVH (80°-90°)	232.4	0.7			G3/500
BL (0°-30°)	1627.8	5.1	B3/2500		
BM (30°-60°)	3442.5	10.8	B3/5000		
BH (60°-80°)	2571.5	8.1	B4/5000		G4/5000
BVH (80°-90°)	182.7	0.6			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: 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°	4653.4	4653.4	4653.4	4653.4	4653.4	4653.4	4653.4	4653.4	4653.4	4653.4	4653.4
2.5°	4764.5	4791.5	4783.1	4774.7	4774.7	4762.9	4761.1	4744.3	4730.8	4709.0	4703.8
5°	4825.2	4853.8	4850.4	4857.2	4879.0	4884.1	4889.1	4879.0	4852.0	4825.2	4813.3
7.5°	4771.3	4803.3	4813.3	4853.8	4921.1	4981.8	5027.2	5045.8	5020.4	4981.8	4963.3
10°	4589.3	4624.7	4660.1	4756.1	4875.6	5018.8	5140.1	5212.5	5207.4	5170.4	5138.4
12.5°	4220.5	4257.5	4333.4	4520.4	4739.3	4991.9	5217.6	5369.2	5421.3	5394.4	5338.8
15°	3925.7	3957.8	4015.0	4207.0	4491.7	4875.6	5246.2	5540.9	5674.0	5658.8	5591.5
17.5°	3917.3	3930.9	3966.2	4057.2	4276.1	4693.8	5215.8	5709.4	5963.7	5961.9	5877.8
20°	4065.6	4070.6	4090.9	4109.3	4234.0	4555.7	5138.4	5849.1	6288.7	6288.7	6197.8
22.5°	4271.1	4267.7	4287.9	4271.1	4331.6	4543.9	5089.5	5972.1	6650.8	6677.7	6563.2
25°	4579.3	4562.4	4557.4	4518.6	4530.4	4653.4	5143.4	6111.9	7080.2	7135.8	6992.7
27.5°	4990.2	4963.3	4944.7	4855.4	4825.2	4879.0	5308.5	6280.3	7558.6	7654.5	7472.7
30°	5525.8	5476.9	5449.9	5295.0	5185.6	5194.0	5557.8	6504.2	8058.8	8213.6	7982.9
32.5°	6256.7	6180.9	6108.5	5854.2	5653.8	5588.1	5879.4	6814.1	8601.1	8848.6	8552.2
35°	7075.2	7014.6	6937.1	6544.6	6236.5	6084.9	6313.9	7247.0	9236.0	9628.3	9242.7
37.5°	7863.4	7811.1	7848.2	7319.4	6921.9	6701.3	6883.2	7828.0	10019.1	10598.5	10108.3
40°	8678.5	8638.1	8643.1	8137.9	7674.8	7427.2	7573.7	8557.2	10916.8	11752.1	11149.2
42.5°	9564.4	9534.0	9433.0	8985.0	8464.7	8233.9	8368.6	9399.4	11880.2	13065.8	12291.1
45°	10556.4	10537.8	10443.5	9929.9	9333.6	9074.3	9256.2	10329.0	12848.5	14301.9	13438.0
47.5°	11413.6	11428.7	11417.0	10984.1	10366.0	9985.4	10202.6	11299.1	13749.6	15464.0	14537.7
50°	11826.2	11905.4	12021.6	11886.8	11502.9	11115.5	11157.6	12235.4	14608.5	16553.6	15592.0
52.5°	11610.7	11760.5	12077.2	12292.7	12440.9	12360.1	12247.2	13165.1	15416.8	17537.2	16589.0
55°	10807.3	11017.8	11543.2	12063.6	12819.9	13407.6	13555.8	14195.8	16205.0	18402.8	17532.2
57.5°	9343.8	9685.6	10157.2	11209.8	12483.1	13914.6	15081.7	15625.7	17040.4	19327.5	18519.1
60°	6834.4	7292.5	7878.6	9444.8	11304.1	13643.5	16380.2	17821.9	18227.8	20524.9	19804.1
62.5°	4373.8	4656.7	5195.6	6671.0	8808.2	12254.0	16777.7	20567.0	20240.3	22488.7	21730.8
65°	2994.4	3176.4	3669.8	4498.4	5694.2	9121.5	15713.2	22625.1	23436.8	25601.0	25025.1
67.5°	2176.0	2314.0	2735.1	3460.9	3710.2	5397.8	12193.4	22530.8	26544.1	28807.6	27911.7
70°	1586.5	1684.2	2037.8	2735.1	2854.6	3002.8	7386.8	19152.3	26476.8	29659.8	28587.0
72.5°	1175.6	1242.9	1480.4	2122.1	2310.7	2027.8	3656.3	13919.6	22751.4	26827.1	25966.5
75°	850.5	901.1	1076.1	1623.5	1849.2	1544.4	1824.0	8134.5	15869.9	18871.1	19022.7
77.5°	650.1	688.8	803.4	1189.0	1480.4	1158.7	1131.8	3742.2	7524.8	7561.9	7986.3
80°	522.1	547.3	609.7	837.0	1135.1	867.4	737.7	1510.7	2378.0	2012.6	2111.9
82.5°	384.0	426.1	515.4	587.7	811.8	597.9	449.7	762.9	904.4	778.1	784.8
85°	218.9	247.5	311.6	421.1	518.8	365.5	257.7	338.6	421.1	345.2	308.2
87.5°	77.5	101.1	109.5	165.0	225.7	151.6	99.3	97.7	138.1	102.7	85.9
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°	4653.4	4653.4	4653.4	4653.4	4653.4	4653.4	4653.4	4653.4	4653.4	4653.4	4653.4
2.5°	4687.0	4678.6	4644.9	4599.5	4552.3	4506.8	4491.7	4459.7	4437.7	4426.0	4439.5
5°	4781.3	4754.4	4675.2	4574.2	4468.1	4353.6	4272.7	4198.6	4144.7	4094.3	4114.5
7.5°	4916.1	4869.0	4732.5	4555.7	4367.0	4176.8	4035.2	3927.5	3855.0	3807.9	3818.0
10°	5072.7	5000.3	4791.5	4527.0	4235.7	3962.9	3796.1	3703.5	3658.0	3632.7	3639.5
12.5°	5252.9	5150.2	4852.0	4461.3	4035.2	3723.7	3609.1	3582.3	3583.9	3585.6	3588.9
15°	5475.2	5332.0	4900.9	4318.2	3774.3	3540.1	3520.0	3563.7	3609.1	3631.1	3629.4
17.5°	5726.2	5524.0	4909.3	4082.4	3518.2	3422.3	3486.2	3580.5	3649.6	3680.0	3686.6
20°	5995.6	5719.4	4848.8	3748.9	3307.7	3326.2	3440.7	3562.0	3637.8	3676.6	3686.6
22.5°	6303.9	5928.3	4703.8	3398.7	3135.9	3221.8	3356.6	3474.4	3553.6	3592.3	3602.5
25°	6655.8	6162.4	4476.5	3103.9	2987.7	3103.9	3238.7	3336.4	3400.3	3435.7	3445.8
27.5°	7046.6	6406.6	4173.4	2869.8	2858.0	2982.6	3093.9	3169.6	3203.3	3230.2	3240.3
30°	7438.9	6628.9	3806.2	2693.0	2745.2	2863.1	2942.3	2975.9	2986.0	2991.1	3002.8
32.5°	7863.4	6820.9	3420.5	2546.5	2637.4	2746.9	2794.0	2809.2	2762.1	2730.0	2740.1
35°	8377.0	7026.4	3043.3	2430.3	2531.3	2625.6	2640.8	2627.3	2571.7	2506.0	2509.4
37.5°	9012.0	7282.3	2741.8	2347.8	2431.9	2494.2	2475.7	2472.4	2477.4	2399.9	2405.0
40°	9790.1	7615.9	2521.2	2283.7	2351.1	2364.6	2312.4	2341.0	2366.2	2248.3	2251.7
42.5°	10654.1	8018.3	2381.4	2239.9	2283.7	2251.7	2170.8	2202.9	2199.5	2044.6	2042.9
45°	11534.8	8456.2	2332.6	2208.0	2221.4	2157.4	2068.1	2076.5	2005.8	1866.0	1871.1
47.5°	12410.6	8926.1	2362.9	2181.0	2144.0	2071.5	2002.4	1965.4	1861.0	1756.5	1756.5
50°	13269.5	9419.5	2474.0	2127.1	2037.8	1995.8	1945.2	1879.5	1768.3	1679.2	1672.4
52.5°	14066.2	9916.4	2598.7	2037.8	1904.8	1930.1	1898.1	1822.2	1712.8	1621.9	1623.5
55°	14820.7	10413.2	2647.5	1914.9	1780.1	1872.8	1854.2	1714.5	1583.1	1509.0	1502.2
57.5°	15642.5	11011.1	2593.7	1758.3	1679.2	1807.1	1736.4	1581.5	1505.6	1450.1	1445.0
60°	16781.0	11949.1	2477.4	1564.6	1583.1	1709.4	1588.1	1524.2	1441.7	1379.3	1376.0
62.5°	18672.3	13699.0	2290.5	1372.6	1470.3	1564.6	1517.4	1453.4	1369.2	1308.6	1308.6
65°	21468.1	16130.9	1938.5	1222.7	1344.0	1423.1	1441.7	1377.6	1290.1	1226.1	1229.5
67.5°	23825.9	17656.8	1466.9	1098.1	1214.3	1308.6	1360.8	1298.5	1205.9	1143.6	1145.2
70°	23696.3	16548.6	1120.0	975.1	1099.7	1195.8	1263.1	1214.3	1114.9	1056.0	1061.0
72.5°	21047.0	13843.9	906.1	850.5	983.6	1077.9	1158.7	1121.7	1020.6	963.3	963.3
75°	15462.3	9827.1	724.2	724.2	838.8	954.9	1044.2	1020.6	927.9	887.5	875.8
77.5°	6517.8	4122.9	567.5	601.3	697.2	820.2	931.3	939.7	859.0	909.5	825.2
80°	1733.0	1136.8	432.9	473.2	547.3	677.0	810.1	806.7	719.1	672.0	624.8
82.5°	660.2	448.0	308.2	333.4	395.8	518.8	641.6	661.8	574.3	496.8	496.8
85°	254.3	192.0	190.3	200.4	230.7	343.6	485.0	501.8	432.9	367.2	378.9
87.5°	65.7	57.3	70.7	67.3	106.1	183.6	277.9	288.0	264.4	153.2	218.9
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)