

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: P885441

Luminaire Tested: **NAV-SB6D-722-U-T4FT**

Issue Date: 10/7/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P885441  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-24)  
Test Lab: INNOVATION CENTER  
Issue Date: 10/7/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMARK  
Catalog Number: NAV-SB6D-722-U-T4FT  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(6) 70 CRI, 2200K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV  
FORWARD THROW OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

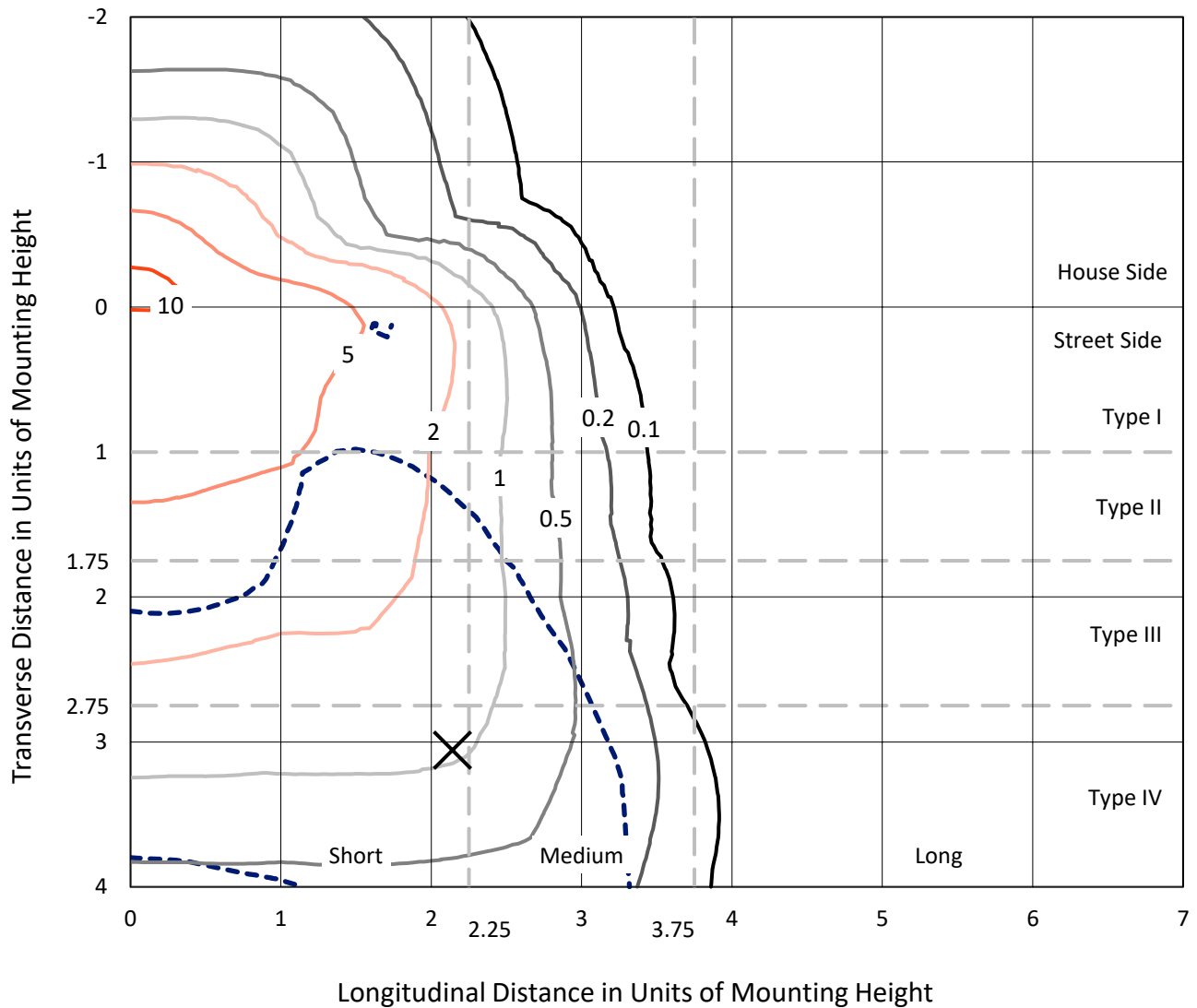
Lumens per Lamp: N/A  
Luminaire Lumens: 48647 lumens  
Efficiency: N/A  
Efficacy: 110.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B4 - U0 - G5  
  
Input Watts (W): 440.1  
Input Voltage (V): 120.0  
Input Current (Ain): 3.68  
Voltage Rise (V): NR  
Power Factor: 0.998  
Total Harmonic Distortion (THDi): 2.542  
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

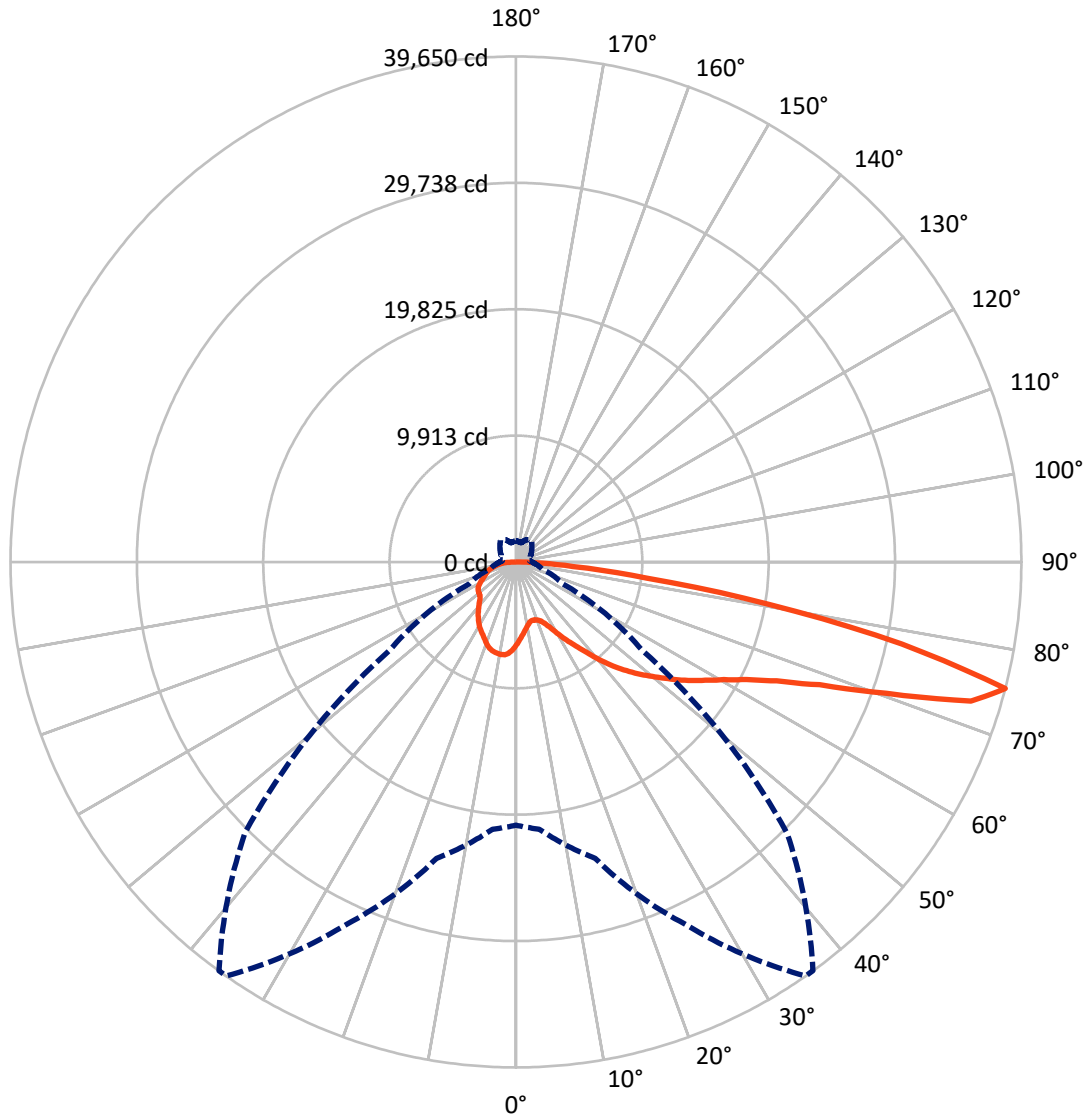
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.5 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral      - - - Horizontal Cone Through 75-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	11576.8	0.0	11576.8
	% Fixture	23.8	0.0	23.8
<b>Street Side</b>	Lumens	37070.2	0.0	37070.2
	% Fixture	76.2	0.0	76.2
<b>Total</b>	Lumens	48647.0	0.0	48647.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	613.8	1.3
10°-20°	1770.4	3.6
20°-30°	2972.9	6.1
30°-40°	4620.3	9.5
40°-50°	6857.8	14.1
50°-60°	9467.6	19.5
60°-70°	11486.3	23.6
70°-80°	9492.6	19.5
80°-90°	1365.3	2.8
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°	48647.0	100.0
0°-180°	48647.0	100.0

**Coefficient of Utilization**



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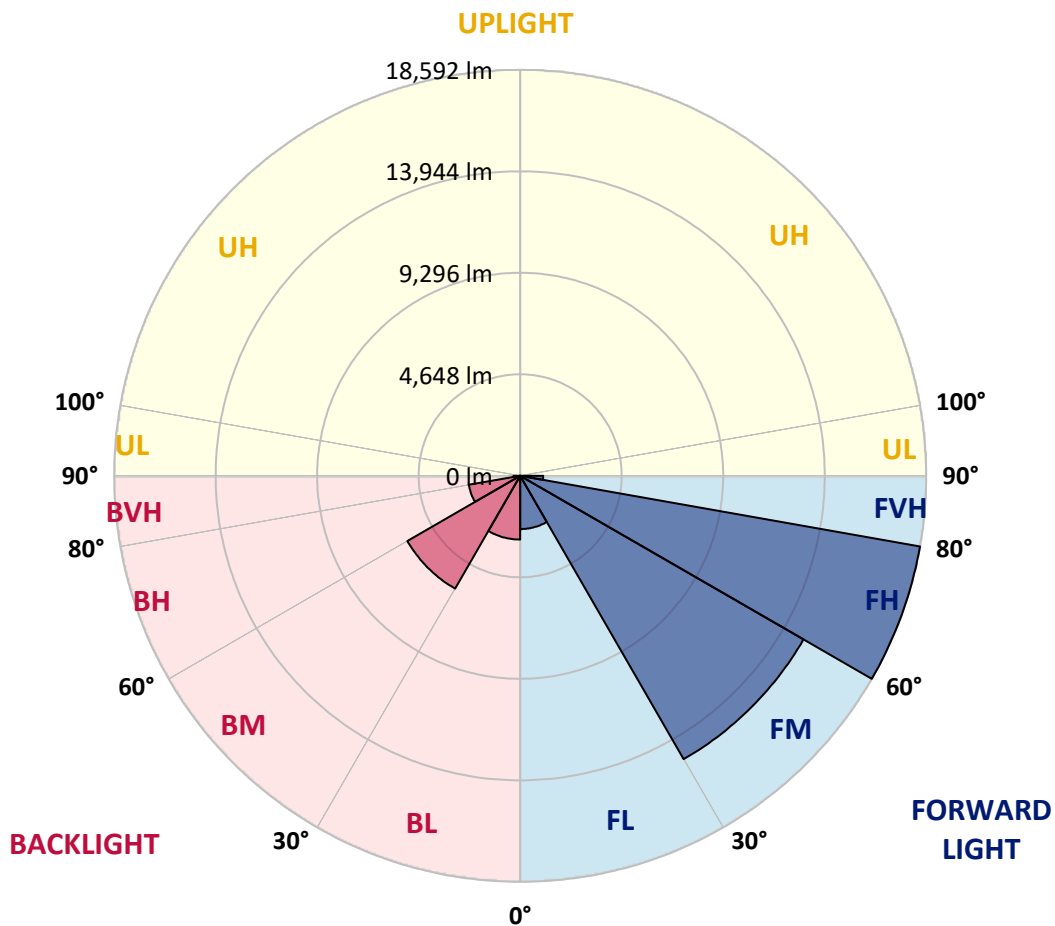
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2439.6	5.0			
FM (30°-60°)	14980.6	30.8			
FH (60°-80°)	18592.2	38.2			G5
FVH (80°-90°)	1057.9	2.2			G5
BL (0°-30°)	2917.5	6.0	B4/5000		
BM (30°-60°)	5965.1	12.3	B4/8500		
BH (60°-80°)	2386.8	4.9	B3/2500		G3/2500
BVH (80°-90°)	307.4	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-G5**

Type IV Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°	85°
0°	6482.5	6482.5	6482.5	6482.5	6482.5	6482.5	6482.5	6482.5	6482.5	6482.5	6482.5
2.5°	5977.6	6014.4	6030.2	6022.3	6061.8	6056.5	6111.7	6180.1	6274.8	6366.8	6501.0
5°	5517.4	5556.8	5591.0	5622.6	5698.9	5722.5	5809.3	5940.8	6114.4	6290.6	6511.5
7.5°	5088.7	5122.9	5175.5	5233.4	5362.2	5385.9	5530.5	5735.7	5977.6	6235.3	6540.4
10°	4739.0	4773.1	4828.4	4894.1	5054.5	5083.5	5267.6	5541.1	5856.6	6182.7	6572.0
12.5°	4589.1	4599.6	4631.1	4696.9	4836.3	4854.7	5057.2	5370.1	5738.3	6143.3	6619.3
15°	4581.2	4602.2	4604.8	4639.0	4754.7	4762.6	4949.3	5259.7	5664.7	6135.4	6690.3
17.5°	4660.1	4675.8	4652.2	4673.2	4770.5	4783.7	4930.9	5207.1	5641.0	6169.6	6811.3
20°	4870.5	4883.6	4812.6	4783.7	4854.7	4865.2	5009.8	5241.3	5664.7	6240.6	6977.0
22.5°	5317.5	5325.4	5151.8	5033.5	5038.8	5044.0	5170.3	5380.6	5756.7	6369.5	7187.3
25°	6014.4	6009.2	5733.0	5504.2	5372.8	5343.8	5428.0	5606.8	5911.9	6540.4	7458.2
27.5°	6829.7	6790.2	6514.1	6172.2	5885.6	5843.5	5825.1	5901.3	6132.8	6766.6	7789.6
30°	7750.1	7713.3	7416.1	6969.1	6572.0	6503.6	6330.0	6290.6	6461.5	7074.3	8249.8
32.5°	8760.0	8736.3	8381.3	7839.5	7308.3	7229.4	6937.5	6832.3	6966.4	7539.7	8891.5
35°	9606.8	9585.7	9291.2	8733.7	8084.1	7986.8	7689.6	7571.3	7639.7	8136.7	9730.4
37.5°	10372.1	10361.5	10109.1	9669.9	8999.3	8881.0	8547.0	8507.5	8494.4	8923.0	10748.1
40°	11082.1	11055.8	10792.8	10561.4	10064.4	9956.6	9662.0	9627.8	9527.9	9890.8	11900.0
42.5°	11868.4	11800.1	11418.7	11310.9	11176.8	11087.4	10911.2	10916.4	10695.5	10982.2	13120.2
45°	12510.1	12470.7	12078.8	12015.7	12160.4	12123.5	12276.1	12315.5	11886.9	12126.2	14387.8
47.5°	13199.1	13162.3	12831.0	12786.3	13178.1	13188.6	13727.7	13740.9	13049.2	13314.9	15658.0
50°	14048.6	13996.0	13667.2	13722.5	14161.7	14201.1	15187.3	15097.9	14119.6	14521.9	16917.7
52.5°	14608.7	14640.3	14569.3	14658.7	15258.3	15295.1	16623.2	16394.4	15179.4	15713.3	18153.7
55°	15021.6	15084.7	15305.6	15510.8	16415.4	16452.2	17977.5	17627.8	16057.8	16817.8	19316.1
57.5°	15552.8	15463.4	15876.3	16276.0	17514.7	17612.0	19295.1	18816.5	16836.2	17769.8	20113.0
60°	16315.5	16252.4	16573.2	17164.9	18745.5	18900.6	20688.9	19886.8	17406.9	18524.6	20268.1
62.5°	17861.8	17704.0	17754.0	18277.3	20297.1	20502.2	22261.5	20820.4	17690.9	18819.1	19437.1
65°	20173.5	19902.6	19650.1	20013.0	22482.5	22685.0	24036.7	21554.1	17585.7	18248.4	17230.7
67.5°	23084.7	22816.4	22506.1	22848.0	25701.4	25861.8	26227.3	21967.0	16757.3	16049.9	13330.6
70°	25485.7	25385.8	25756.6	27163.6	30842.7	30848.0	29036.0	21625.1	14487.8	11379.3	7713.3
72.5°	25167.5	25107.0	27061.0	31410.7	37322.6	37183.2	31694.8	19037.4	9759.3	5133.4	2890.2
75°	20646.8	21038.7	24065.6	31334.5	39650.0	39631.6	30066.9	12102.5	4036.8	2127.5	1493.7
77.5°	11071.6	11692.2	15623.8	23134.7	30953.2	31418.6	21138.6	4234.0	1733.1	1362.3	1033.5
80°	3610.8	4152.5	6227.4	11779.0	20113.0	20026.2	9059.8	1662.1	1186.1	965.1	715.3
82.5°	1533.2	1596.3	2782.4	5562.1	10322.1	10161.7	2884.9	954.6	833.7	660.1	441.8
85°	599.6	670.6	1228.1	2572.0	4470.7	4373.4	1041.4	473.4	533.9	431.3	263.0
87.5°	197.2	239.3	439.2	881.0	1391.2	1341.2	255.1	163.0	231.4	197.2	94.7
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°	6482.5	6482.5	6482.5	6482.5	6482.5	6482.5	6482.5	6482.5	6482.5	6482.5	6482.5
2.5°	6537.8	6579.8	6629.8	6703.4	6766.6	6819.2	6874.4	6908.6	6921.7	6961.2	6958.5
5°	6585.1	6677.1	6800.8	6921.7	7040.1	7111.1	7174.2	7205.7	7234.7	7255.7	7261.0
7.5°	6664.0	6782.3	6977.0	7134.7	7234.7	7292.5	7334.6	7324.1	7334.6	7339.9	7347.8
10°	6732.4	6898.1	7129.5	7279.4	7355.6	7358.3	7347.8	7310.9	7292.5	7295.2	7300.4
12.5°	6813.9	6998.0	7247.8	7374.1	7395.1	7337.2	7292.5	7229.4	7205.7	7195.2	7190.0
15°	6924.4	7134.7	7376.7	7424.0	7371.4	7297.8	7221.5	7119.0	7066.4	7024.3	7037.4
17.5°	7058.5	7289.9	7476.6	7442.4	7329.3	7208.4	7084.8	6929.6	6821.8	6777.1	6779.7
20°	7245.2	7453.0	7552.9	7403.0	7232.0	7048.0	6837.6	6648.2	6548.3	6503.6	6498.3
22.5°	7471.4	7671.2	7626.5	7334.6	7092.7	6798.1	6535.1	6395.8	6345.8	6314.2	6319.5
25°	7742.2	7913.2	7679.1	7234.7	6863.9	6466.8	6264.3	6219.6	6195.9	6172.2	6172.2
27.5°	8094.6	8186.7	7718.6	7087.4	6506.2	6114.4	6040.7	6048.6	6040.7	6001.3	6009.2
30°	8560.1	8541.7	7755.4	6848.1	6096.0	5796.2	5801.4	5835.6	5840.9	5814.6	5827.7
32.5°	9172.9	8986.1	7773.8	6537.8	5704.1	5517.4	5522.7	5559.5	5585.8	5541.1	5562.1
35°	9914.5	9504.2	7744.9	6148.6	5401.7	5251.8	5212.3	5222.9	5230.7	5188.7	5217.6
37.5°	10779.7	10085.4	7616.0	5717.3	5151.8	4991.4	4907.3	4836.3	4794.2	4754.7	4781.0
40°	11729.1	10719.2	7379.3	5296.5	4873.1	4715.3	4589.1	4454.9	4312.9	4260.3	4284.0
42.5°	12723.1	11371.4	7092.7	4894.1	4552.2	4423.4	4289.3	4094.7	3881.6	3773.8	3787.0
45°	13754.0	12039.4	6811.3	4497.0	4223.5	4168.3	4013.1	3779.1	3547.6	3410.9	3400.4
47.5°	14763.9	12670.5	6398.4	4097.3	3915.8	3976.3	3855.3	3639.7	3382.0	3166.3	3142.7
50°	15729.0	13262.3	5722.5	3692.3	3666.0	3918.5	3802.7	3492.4	3197.9	2921.7	2898.1
52.5°	16686.3	13740.9	4857.3	3324.1	3531.9	3902.7	3734.4	3392.5	3032.2	2742.9	2711.4
55°	17498.9	13988.1	4023.6	3008.5	3337.3	3768.6	3652.8	3274.1	2798.1	2490.5	2464.2
57.5°	17961.8	13788.2	3329.4	2698.2	3069.0	3547.6	3513.5	3021.7	2519.4	2282.7	2251.1
60°	17761.9	12978.2	2761.3	2427.3	2813.9	3308.3	3271.5	2771.8	2306.4	2082.8	2051.3
62.5°	16660.0	11434.5	2311.6	2190.7	2582.5	3063.8	3029.6	2579.9	2143.3	1927.7	1893.5
65°	14440.4	9301.7	1961.9	1993.4	2348.4	2769.2	2819.2	2419.4	2014.5	1804.1	1769.9
67.5°	11013.7	6737.6	1688.4	1822.5	2119.6	2479.9	2624.6	2303.7	1906.6	1706.8	1675.2
70°	6277.4	3826.4	1456.9	1656.8	1917.1	2211.7	2474.7	2211.7	1790.9	1625.2	1604.2
72.5°	2380.0	1756.7	1259.7	1491.1	1722.5	1985.5	2309.0	2067.0	1656.8	1533.2	1512.2
75°	1270.2	1070.3	1059.8	1296.5	1499.0	1764.6	2101.2	1925.0	1556.9	1620.0	1672.6
77.5°	865.2	757.4	886.3	1109.8	1254.4	1520.0	1880.3	1709.4	1349.1	1343.8	1238.7
80°	599.6	536.5	720.6	894.1	970.4	1278.1	1641.0	1467.4	1099.3	1025.6	980.9
82.5°	360.3	349.8	539.1	668.0	686.4	986.2	1359.6	1230.8	899.4	783.7	789.0
85°	197.2	207.8	344.5	391.8	399.7	689.0	1065.1	952.0	691.6	581.2	586.5
87.5°	55.2	71.0	126.2	155.2	192.0	357.7	633.8	565.4	347.1	241.9	241.9
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)