

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: P885281

Luminaire Tested: **NAV-SB6C-727-U-T4FT**

Issue Date: 10/7/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P885281  
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-SB6C-727-U-T4FT  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(6) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV  
FORWARD THROW OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

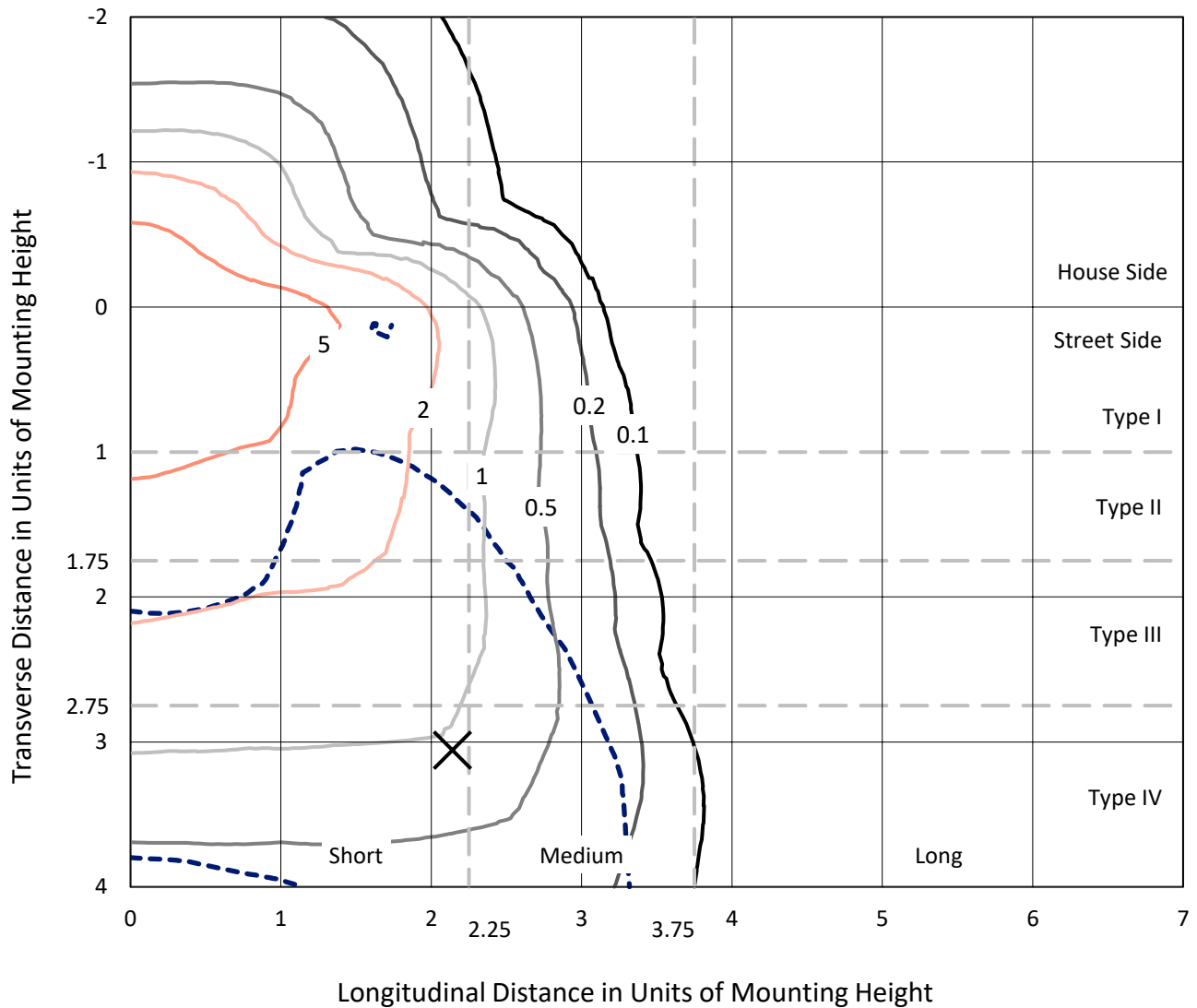
Lumens per Lamp: N/A  
Luminaire Lumens: 40716 lumens  
Efficiency: N/A  
Efficacy: 135.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G5  
  
Input Watts (W): 300.9  
Input Voltage (V): 120.0  
Input Current (Ain): 2.518  
Voltage Rise (V): NR  
Power Factor: 0.997  
Total Harmonic Distortion (THDi): 6.297  
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

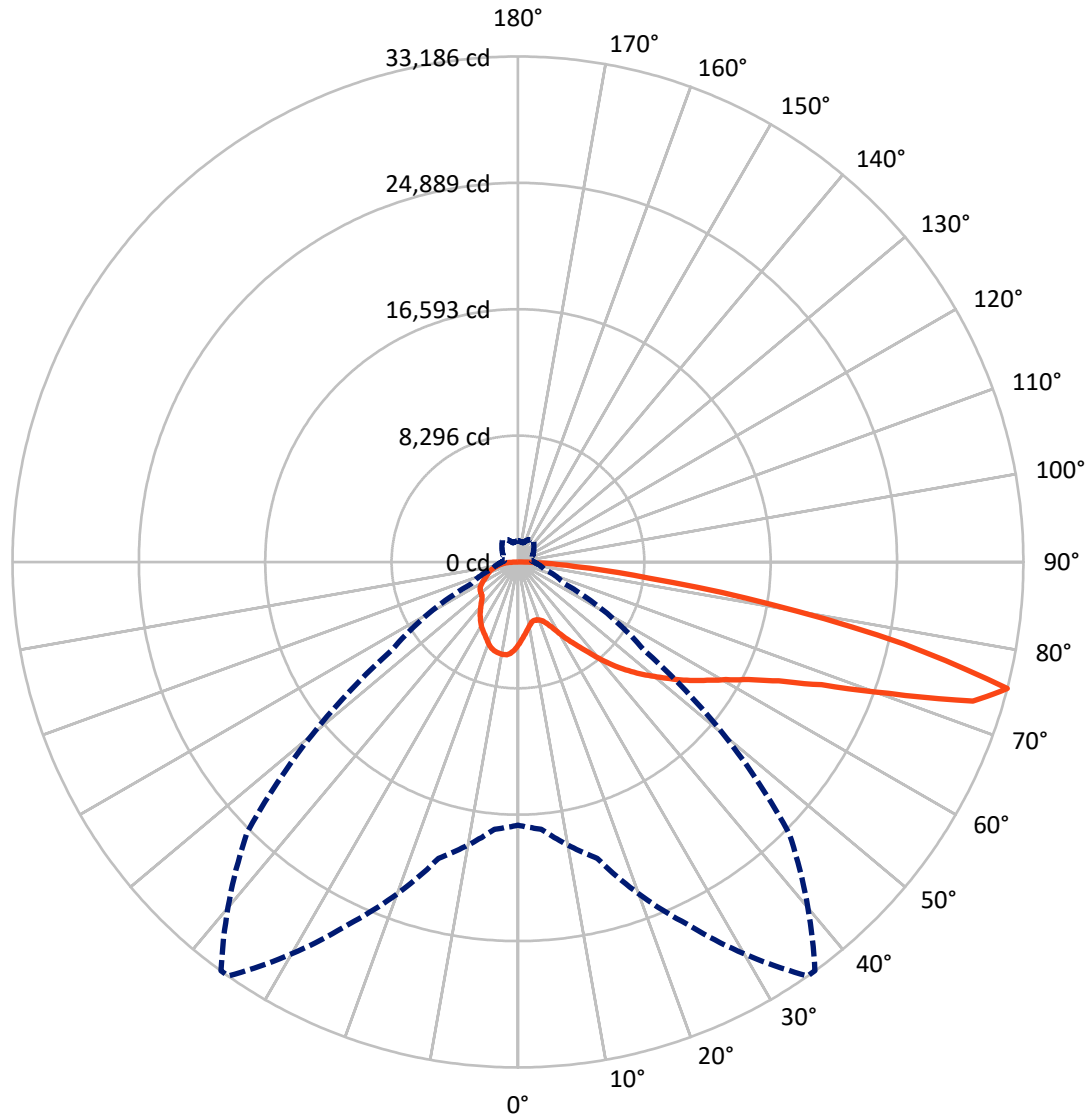
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.6 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	9689.4	0.0	9689.4
	% Fixture	23.8	0.0	23.8
<b>Street Side</b>	Lumens	31026.6	0.0	31026.6
	% Fixture	76.2	0.0	76.2
<b>Total</b>	Lumens	40716.0	0.0	40716.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	513.7	1.3
10°-20°	1481.7	3.6
20°-30°	2488.2	6.1
30°-40°	3867.1	9.5
40°-50°	5739.8	14.1
50°-60°	7924.1	19.5
60°-70°	9613.7	23.6
70°-80°	7945.0	19.5
80°-90°	1142.7	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°	40716.0	100.0
0°-180°	40716.0	100.0

**Coefficient of Utilization**



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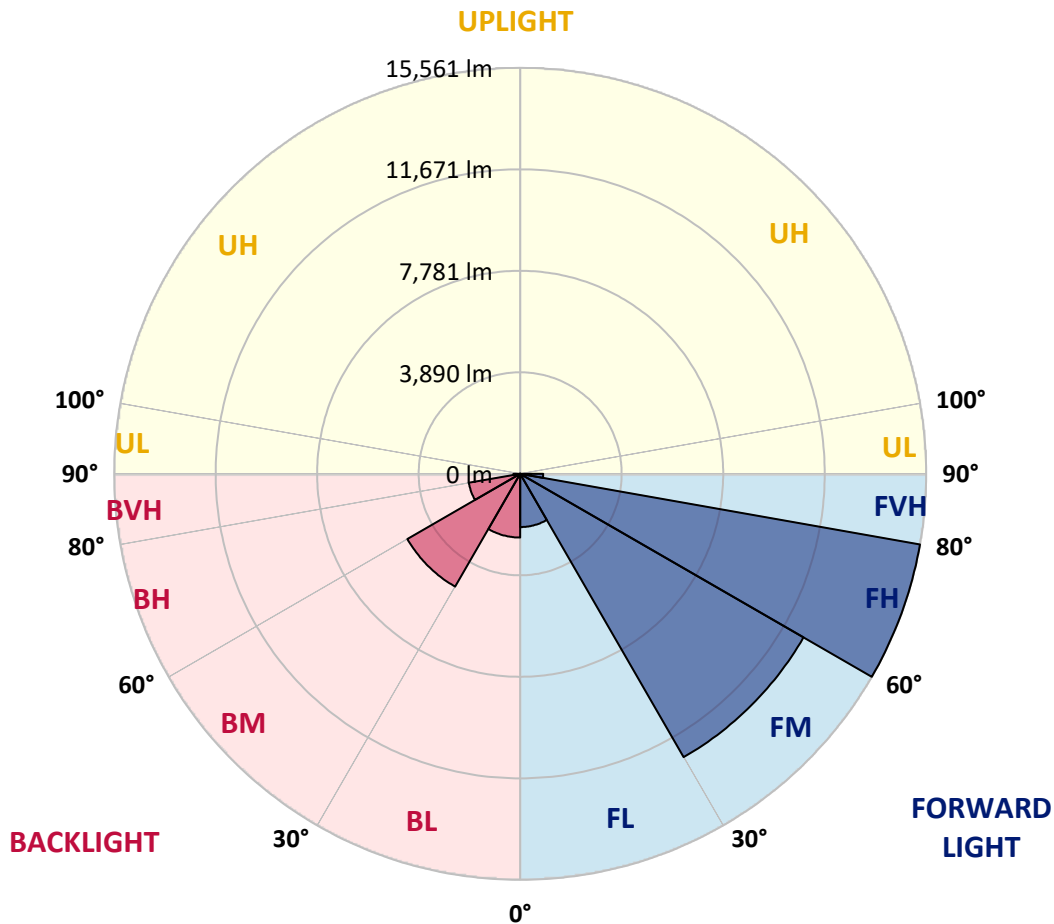
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2041.8	5.0			
FM (30°-60°)	12538.3	30.8			
FH (60°-80°)	15561.0	38.2			G5
FVH (80°-90°)	885.4	2.2			G5
BL (0°-30°)	2441.9	6.0	B3/2500		
BM (30°-60°)	4992.6	12.3	B3/5000		
BH (60°-80°)	1997.7	4.9	B3/2500		G3/2500
BVH (80°-90°)	257.3	0.6			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G5**

Type IV Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°	85°
0°	5425.7	5425.7	5425.7	5425.7	5425.7	5425.7	5425.7	5425.7	5425.7	5425.7	5425.7
2.5°	5003.1	5033.9	5047.1	5040.5	5073.5	5069.1	5115.3	5172.6	5251.8	5328.8	5441.1
5°	4617.9	4650.9	4679.5	4705.9	4769.8	4789.6	4862.2	4972.3	5117.5	5265.0	5449.9
7.5°	4259.1	4287.7	4331.7	4380.2	4488.0	4507.8	4628.9	4800.6	5003.1	5218.8	5474.1
10°	3966.4	3995.0	4041.2	4096.2	4230.5	4254.7	4408.8	4637.7	4901.8	5174.8	5500.5
12.5°	3840.9	3849.7	3876.1	3931.1	4047.8	4063.2	4232.7	4494.6	4802.8	5141.7	5540.1
15°	3834.3	3851.9	3854.1	3882.7	3979.6	3986.2	4142.4	4402.2	4741.1	5135.1	5599.6
17.5°	3900.3	3913.5	3893.7	3911.3	3992.8	4003.8	4127.0	4358.2	4721.3	5163.8	5700.8
20°	4076.4	4087.4	4028.0	4003.8	4063.2	4072.0	4193.1	4386.8	4741.1	5223.2	5839.5
22.5°	4450.6	4457.2	4311.9	4212.9	4217.3	4221.7	4327.3	4503.4	4818.2	5331.0	6015.6
25°	5033.9	5029.5	4798.4	4606.9	4496.8	4472.6	4543.0	4692.7	4948.0	5474.1	6242.3
27.5°	5716.2	5683.2	5452.1	5166.0	4926.0	4890.8	4875.4	4939.2	5132.9	5663.4	6519.6
30°	6486.6	6455.8	6207.1	5832.9	5500.5	5443.3	5298.0	5265.0	5408.1	5920.9	6904.8
32.5°	7331.8	7312.0	7014.9	6561.4	6116.8	6050.8	5806.5	5718.4	5830.7	6310.5	7441.9
35°	8040.6	8023.0	7776.4	7309.8	6766.1	6684.7	6436.0	6336.9	6394.2	6810.2	8144.0
37.5°	8681.1	8672.3	8461.0	8093.4	7532.1	7433.1	7153.5	7120.5	7109.5	7468.3	8995.8
40°	9275.4	9253.4	9033.3	8839.6	8423.6	8333.3	8086.8	8058.2	7974.5	8278.3	9959.9
42.5°	9933.5	9876.3	9557.1	9466.9	9354.6	9279.8	9132.3	9136.7	8951.8	9191.7	10981.2
45°	10470.6	10437.6	10109.6	10056.8	10177.8	10147.0	10274.7	10307.7	9948.9	10149.2	12042.2
47.5°	11047.3	11016.4	10739.1	10701.7	11029.7	11038.5	11489.7	11500.7	10921.8	11144.1	13105.3
50°	11758.2	11714.2	11439.1	11485.3	11852.9	11885.9	12711.3	12636.4	11817.6	12154.4	14159.6
52.5°	12227.0	12253.5	12194.0	12268.9	12770.7	12801.5	13913.1	13721.6	12704.7	13151.5	15194.1
55°	12572.6	12625.4	12810.3	12982.0	13739.2	13770.0	15046.6	14753.9	13439.8	14076.0	16167.0
57.5°	13017.2	12942.4	13288.0	13622.5	14659.2	14740.7	16149.4	15748.8	14091.4	14872.8	16833.9
60°	13655.6	13602.7	13871.3	14366.5	15689.4	15819.2	17316.0	16644.6	14569.0	15504.5	16963.8
62.5°	14949.8	14817.7	14859.5	15297.6	16988.0	17159.7	18632.2	17426.0	14806.7	15751.0	16268.2
65°	16884.5	16657.8	16446.5	16750.3	18817.1	18986.6	20117.9	18040.1	14718.7	15273.4	14421.5
67.5°	19321.2	19096.6	18836.9	19123.1	21511.2	21645.5	21951.5	18385.7	14025.3	13433.2	11157.3
70°	21330.7	21247.1	21557.5	22735.0	25814.4	25818.8	24302.2	18099.5	12125.8	9524.1	6455.8
72.5°	21064.4	21013.8	22649.2	26289.8	31237.8	31121.2	26527.5	15933.7	8168.2	4296.5	2419.0
75°	17280.7	17608.7	20142.2	26226.0	33185.8	33170.4	25165.0	10129.4	3378.7	1780.7	1250.2
77.5°	9266.6	9786.0	13076.7	19363.0	25906.8	26296.4	17692.3	3543.8	1450.5	1140.2	865.0
80°	3022.1	3475.5	5212.2	9858.7	16833.9	16761.3	7582.7	1391.1	992.7	807.8	598.7
82.5°	1283.2	1336.1	2328.8	4655.3	8639.3	8505.0	2414.6	799.0	697.7	552.5	369.8
85°	501.8	561.3	1027.9	2152.7	3741.8	3660.4	871.6	396.2	446.8	361.0	220.1
87.5°	165.1	200.3	367.6	737.4	1164.4	1122.6	213.5	136.5	193.7	165.1	79.2
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°	5425.7	5425.7	5425.7	5425.7	5425.7	5425.7	5425.7	5425.7	5425.7	5425.7	5425.7
2.5°	5471.9	5507.1	5548.9	5610.6	5663.4	5707.4	5753.6	5782.3	5793.3	5826.3	5824.1
5°	5511.5	5588.6	5692.0	5793.3	5892.3	5951.7	6004.6	6031.0	6055.2	6072.8	6077.2
7.5°	5577.6	5676.6	5839.5	5971.6	6055.2	6103.6	6138.8	6130.0	6138.8	6143.2	6149.8
10°	5634.8	5773.5	5967.2	6092.6	6156.4	6158.6	6149.8	6119.0	6103.6	6105.8	6110.2
12.5°	5703.0	5857.1	6066.2	6171.9	6189.5	6141.0	6103.6	6050.8	6031.0	6022.2	6017.8
15°	5795.5	5971.6	6174.1	6213.7	6169.7	6108.0	6044.2	5958.3	5914.3	5879.1	5890.1
17.5°	5907.7	6101.4	6257.7	6229.1	6134.4	6033.2	5929.7	5799.9	5709.6	5672.2	5674.4
20°	6064.0	6237.9	6321.5	6196.1	6053.0	5898.9	5722.8	5564.4	5480.7	5443.3	5438.9
22.5°	6253.3	6420.6	6383.2	6138.8	5936.3	5689.8	5469.7	5353.0	5311.2	5284.8	5289.2
25°	6480.0	6623.1	6427.2	6055.2	5744.8	5412.5	5243.0	5205.6	5185.8	5166.0	5166.0
27.5°	6774.9	6852.0	6460.2	5931.9	5445.5	5117.5	5055.9	5062.5	5055.9	5022.9	5029.5
30°	7164.5	7149.1	6491.0	5731.6	5102.1	4851.2	4855.6	4884.2	4888.6	4866.6	4877.6
32.5°	7677.4	7521.1	6506.4	5471.9	4774.2	4617.9	4622.3	4653.1	4675.1	4637.7	4655.3
35°	8298.1	7954.7	6482.2	5146.1	4521.0	4395.6	4362.6	4371.4	4378.0	4342.7	4367.0
37.5°	9022.3	8441.2	6374.4	4785.2	4311.9	4177.7	4107.2	4047.8	4012.6	3979.6	4001.6
40°	9816.9	8971.6	6176.3	4433.0	4078.6	3946.6	3840.9	3728.6	3609.8	3565.8	3585.6
42.5°	10648.9	9517.5	5936.3	4096.2	3810.1	3702.2	3590.0	3427.1	3248.8	3158.6	3169.6
45°	11511.7	10076.6	5700.8	3763.9	3534.9	3488.7	3358.9	3163.0	2969.3	2854.8	2846.0
47.5°	12356.9	10604.8	5355.2	3429.3	3277.4	3328.0	3226.8	3046.3	2830.6	2650.1	2630.3
50°	13164.7	11100.1	4789.6	3090.3	3068.3	3279.6	3182.8	2923.0	2676.5	2445.4	2425.6
52.5°	13965.9	11500.7	4065.4	2782.2	2956.1	3266.4	3125.5	2839.4	2537.9	2295.7	2269.3
55°	14646.0	11707.6	3367.7	2518.0	2793.2	3154.2	3057.3	2740.4	2342.0	2084.4	2062.4
57.5°	15033.4	11540.3	2786.6	2258.3	2568.7	2969.3	2940.7	2529.1	2108.6	1910.5	1884.1
60°	14866.1	10862.4	2311.1	2031.6	2355.2	2769.0	2738.2	2319.9	1930.4	1743.3	1716.8
62.5°	13943.9	9570.3	1934.8	1833.5	2161.5	2564.3	2535.7	2159.3	1793.9	1613.4	1584.8
65°	12086.2	7785.2	1642.0	1668.4	1965.6	2317.7	2359.6	2025.0	1686.0	1509.9	1481.3
67.5°	9218.2	5639.2	1413.1	1525.4	1774.1	2075.6	2196.7	1928.2	1595.8	1428.5	1402.1
70°	5254.0	3202.6	1219.4	1386.7	1604.6	1851.1	2071.2	1851.1	1498.9	1360.3	1342.7
72.5°	1992.0	1470.3	1054.3	1248.0	1441.7	1661.8	1932.6	1730.1	1386.7	1283.2	1265.6
75°	1063.1	895.8	887.0	1085.1	1254.6	1476.9	1758.7	1611.2	1303.0	1355.9	1399.9
77.5°	724.2	633.9	741.8	928.9	1049.9	1272.2	1573.8	1430.7	1129.2	1124.8	1036.7
80°	501.8	449.0	603.1	748.4	812.2	1069.7	1373.5	1228.2	920.1	858.4	821.0
82.5°	301.5	292.7	451.2	559.1	574.5	825.4	1138.0	1030.1	752.8	655.9	660.3
85°	165.1	173.9	288.3	328.0	334.6	576.7	891.4	796.8	578.9	486.4	490.8
87.5°	46.2	59.4	105.7	129.9	160.7	299.3	530.5	473.2	290.5	202.5	202.5
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)