

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: P885274

Luminaire Tested: **NAV-SB6C-727-U-SL4**

Issue Date: 10/7/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P885274  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-9)  
Test Lab: INNOVATION CENTER  
Issue Date: 10/7/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMARK  
Catalog Number: NAV-SB6C-727-U-SL4  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(6) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV SPILL  
LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

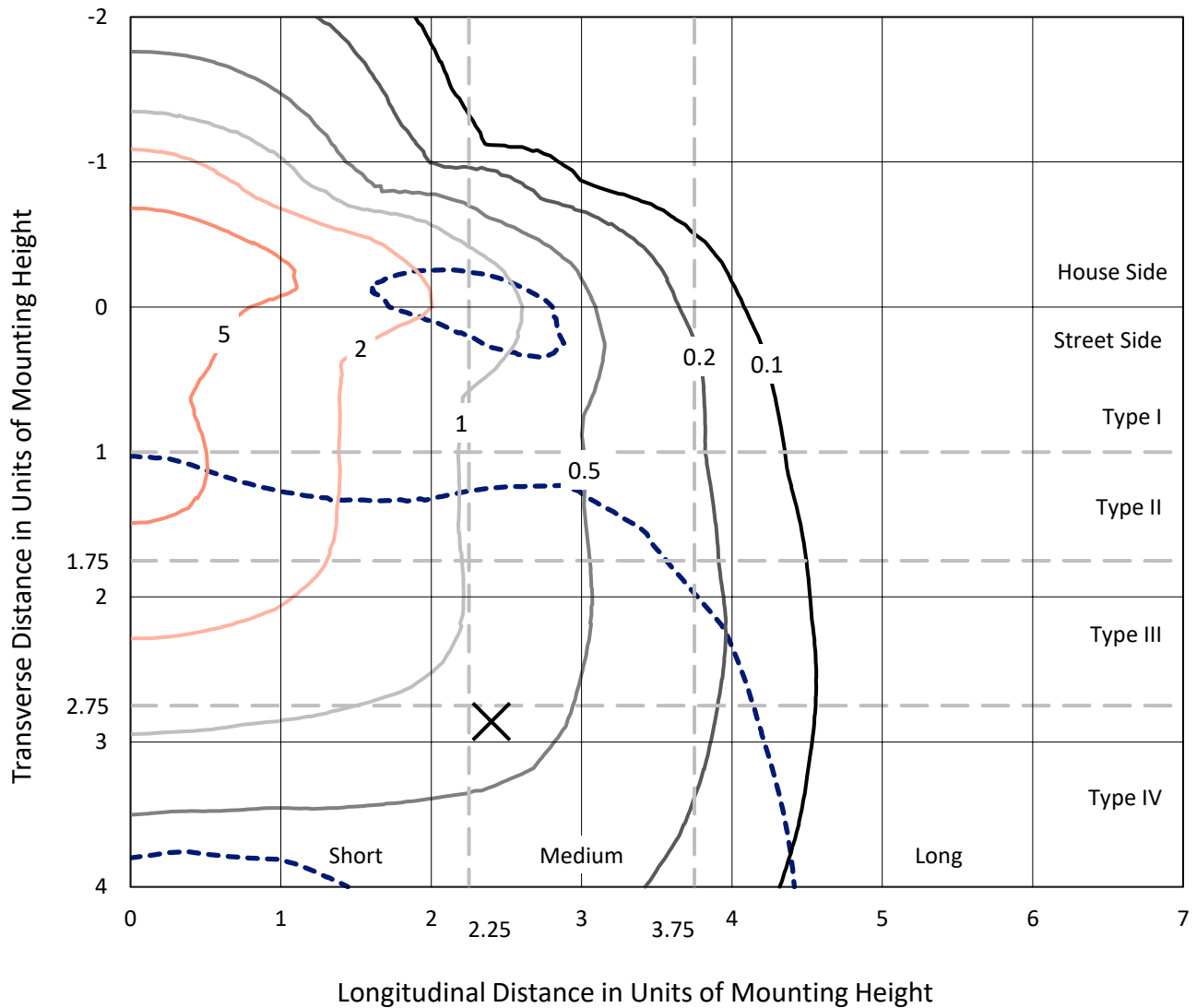
Lumens per Lamp: N/A  
Luminaire Lumens: 40835 lumens  
Efficiency: N/A  
Efficacy: 135.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B4 - U0 - G5  
  
Input Watts (W): 300.9  
Input Voltage (V): 120.0  
Input Current (Ain): 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

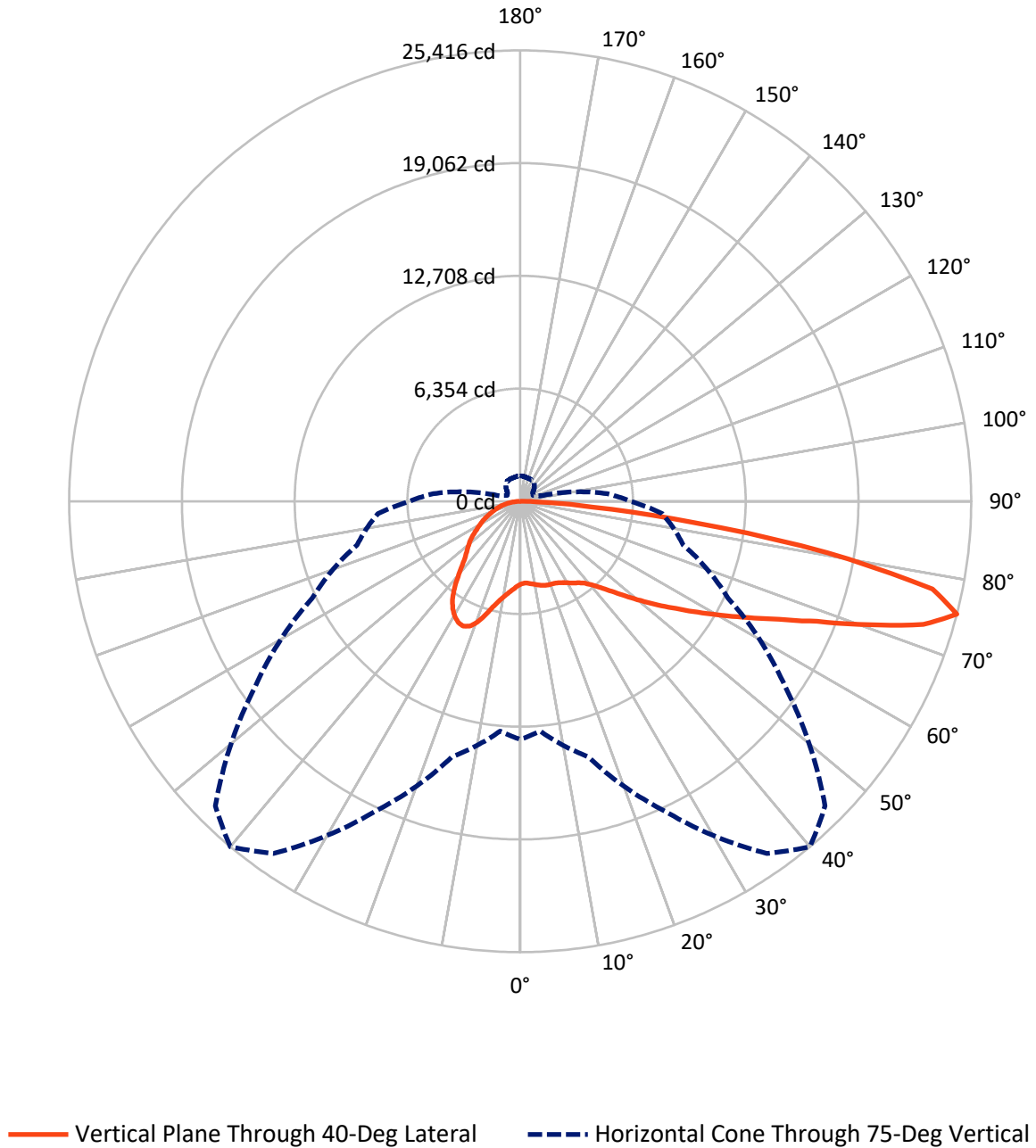
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.6 fc  
 Type IV - Medium - N/A

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### Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	12652.1	0.0	12652.1
	% Fixture	31.0	0.0	31.0
<b>Street Side</b>	Lumens	28182.9	0.0	28182.9
	% Fixture	69.0	0.0	69.0
<b>Total</b>	Lumens	40835.0	0.0	40835.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	466.1	1.1
10°-20°	1564.9	3.8
20°-30°	2857.5	7.0
30°-40°	4052.7	9.9
40°-50°	5472.3	13.4
50°-60°	7361.7	18.0
60°-70°	9343.7	22.9
70°-80°	8480.0	20.8
80°-90°	1236.1	3.0
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°	40835.0	100.0
0°-180°	40835.0	100.0

**Coefficient of Utilization**



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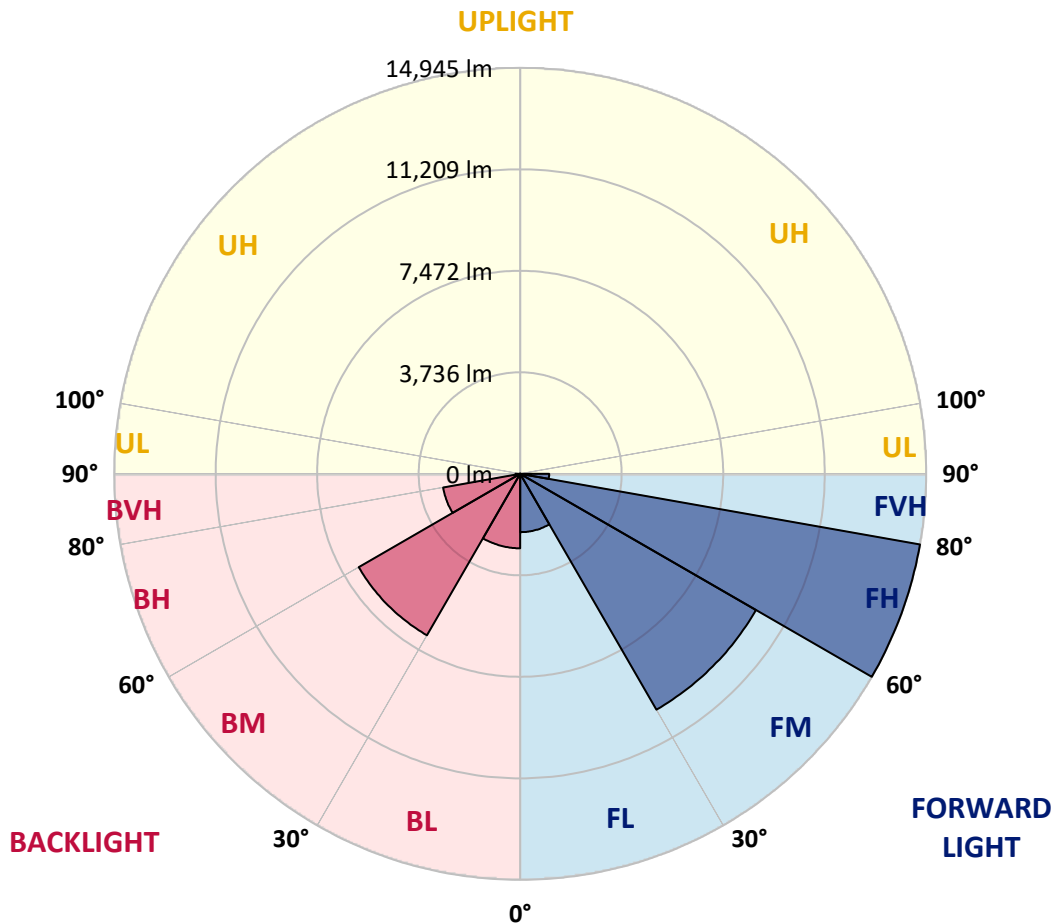
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2148.0	5.3			
FM (30°-60°)	10024.1	24.5			
FH (60°-80°)	14945.0	36.6			G5
FVH (80°-90°)	1065.9	2.6			G5
BL (0°-30°)	2740.6	6.7	B4/5000		
BM (30°-60°)	6862.6	16.8	B4/8500		
BH (60°-80°)	2878.7	7.0	B4/5000		G4/5000
BVH (80°-90°)	170.2	0.4			G2/225
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 Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	4669.5	4669.5	4669.5	4669.5	4669.5	4669.5	4669.5	4669.5	4669.5	4669.5	4669.5
2.5°	4598.1	4624.1	4617.6	4608.9	4608.9	4611.1	4608.9	4624.1	4639.2	4654.4	4678.2
5°	4645.7	4671.7	4658.7	4647.9	4639.2	4637.0	4630.6	4628.4	4637.0	4656.5	4689.0
7.5°	4738.8	4764.8	4745.3	4725.8	4708.5	4699.9	4691.2	4678.2	4671.7	4682.5	4728.0
10°	4842.8	4868.8	4845.0	4810.3	4782.2	4771.3	4762.7	4749.7	4741.0	4747.5	4797.3
12.5°	4946.8	4972.8	4940.3	4892.6	4855.8	4849.3	4838.5	4834.1	4832.0	4829.8	4879.6
15°	5044.2	5065.9	5024.7	4968.4	4929.4	4918.6	4907.8	4914.3	4925.1	4938.1	4994.4
17.5°	5120.0	5141.7	5081.0	5007.4	4970.6	4966.3	4959.8	4981.4	5011.7	5044.2	5113.5
20°	5189.3	5211.0	5133.0	5033.4	4990.1	4990.1	4992.2	5037.7	5081.0	5128.7	5224.0
22.5°	5286.8	5304.1	5208.8	5072.4	5009.6	5013.9	5031.2	5076.7	5130.9	5195.8	5327.9
25°	5431.9	5444.9	5327.9	5146.0	5074.5	5087.5	5102.7	5124.4	5176.3	5252.1	5429.7
27.5°	5665.8	5676.6	5522.9	5276.0	5167.7	5189.3	5211.0	5195.8	5219.7	5284.6	5512.0
30°	5995.0	6001.5	5806.6	5479.6	5325.8	5336.6	5340.9	5278.1	5232.7	5284.6	5570.5
32.5°	6384.9	6382.7	6151.0	5726.5	5505.5	5494.7	5457.9	5334.4	5228.3	5273.8	5622.5
35°	6989.1	6965.3	6666.4	6073.0	5709.1	5642.0	5555.4	5397.3	5250.0	5263.0	5668.0
37.5°	7989.8	7916.1	7502.4	6640.4	6012.4	5841.3	5713.5	5499.1	5297.6	5258.6	5722.1
40°	9118.2	9025.0	8570.2	7418.0	6467.2	6192.1	5986.4	5644.2	5375.6	5278.1	5802.3
42.5°	10456.6	10324.5	9835.0	8334.1	7043.3	6644.8	6335.1	5828.3	5490.4	5340.9	5910.6
45°	12100.5	11925.1	11232.0	9367.2	7768.8	7238.2	6824.5	6107.6	5665.8	5462.2	6073.0
47.5°	13761.7	13805.0	12819.6	10549.8	8639.5	7970.3	7437.5	6527.8	5921.4	5657.2	6335.1
50°	15526.9	15557.2	14398.5	11860.1	9627.1	8797.6	8126.2	6997.8	6276.6	5934.4	6727.1
52.5°	16904.3	16908.7	15832.2	13231.1	10655.9	9707.3	8869.1	7534.9	6688.1	6302.6	7249.0
55°	17766.3	17755.5	16837.2	14528.4	11838.4	10662.4	9692.1	8145.7	7190.6	6735.7	7905.3
57.5°	18392.3	18359.8	17530.3	15643.8	13099.0	11790.8	10623.4	8838.8	7784.0	7251.2	8769.5
60°	18630.5	18611.0	18000.2	16607.6	14424.4	13038.3	11697.7	9614.1	8457.6	7859.8	9880.5
62.5°	18721.5	18758.3	18461.6	17541.1	15843.1	14420.1	12878.0	10541.1	9215.6	8548.5	11052.2
65°	19042.0	19109.1	19048.5	18762.6	17445.8	16038.0	14443.9	11643.5	10043.0	9287.1	12275.9
67.5°	19676.6	19743.7	19769.7	20224.6	19403.7	18054.4	16397.5	13016.7	11011.1	10053.8	13196.4
70°	19661.4	19641.9	20101.1	21387.6	21855.4	20846.1	19031.2	14706.0	12165.5	10690.6	13313.4
72.5°	17896.3	17740.3	18825.4	21374.6	23895.6	23761.4	22247.4	16884.8	13161.8	10768.5	11552.6
75°	13426.0	13010.2	14926.9	19262.9	24235.7	25416.1	24292.0	18236.3	12925.7	9514.5	8039.6
77.5°	5741.6	5323.6	7582.6	14259.8	21690.8	23759.2	22416.4	15910.2	10318.0	6291.7	3948.3
80°	1503.1	1500.9	2291.5	6465.0	14751.5	17545.4	15392.6	10274.7	5895.4	2248.1	1089.4
82.5°	621.6	606.4	842.5	2514.5	7207.9	9845.9	8035.2	4582.9	2129.0	608.6	361.7
85°	231.7	229.6	409.3	868.5	2542.7	4060.9	2939.0	1171.7	530.6	296.7	162.4
87.5°	65.0	62.8	88.8	301.1	619.4	940.0	502.5	192.8	149.4	117.0	47.6
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°	4669.5	4669.5	4669.5	4669.5	4669.5	4669.5	4669.5	4669.5	4669.5	4669.5	4669.5
2.5°	4684.7	4695.5	4715.0	4730.2	4749.7	4771.3	4801.7	4821.1	4840.6	4853.6	4845.0
5°	4704.2	4728.0	4777.8	4827.6	4886.1	4940.3	5003.1	5048.6	5085.4	5096.2	5100.5
7.5°	4747.5	4786.5	4871.0	4955.4	5048.6	5137.4	5228.3	5306.3	5369.1	5392.9	5395.1
10°	4823.3	4875.3	4994.4	5113.5	5237.0	5373.4	5490.4	5603.0	5691.8	5728.6	5730.8
12.5°	4918.6	4983.6	5139.5	5304.1	5475.2	5663.7	5815.3	5953.9	6064.3	6114.1	6114.1
15°	5042.1	5126.5	5325.8	5546.7	5797.9	6060.0	6252.8	6406.5	6530.0	6590.6	6586.3
17.5°	5176.3	5289.0	5540.2	5873.7	6233.3	6577.6	6802.9	6915.5	7043.3	7101.8	7099.6
20°	5306.3	5444.9	5804.4	6289.6	6768.2	7134.3	7316.2	7346.5	7355.2	7361.7	7379.0
22.5°	5440.6	5626.8	6135.8	6813.7	7327.0	7580.4	7606.4	7476.5	7294.5	7210.1	7233.9
25°	5587.8	5834.8	6569.0	7392.0	7807.8	7838.2	7638.9	7322.7	6978.3	6820.2	6844.0
27.5°	5730.8	6075.2	7088.8	7944.3	8154.4	7888.0	7459.1	7010.8	6595.0	6428.2	6447.7
30°	5873.7	6350.2	7662.7	8427.3	8312.5	7764.5	7175.4	6675.1	6257.1	6081.7	6101.2
32.5°	6018.9	6670.8	8323.3	8776.0	8284.3	7502.4	6822.4	6298.2	5930.1	5746.0	5769.8
35°	6183.5	7064.9	8949.2	8966.5	8095.9	7116.9	6356.7	5847.7	5527.2	5379.9	5412.4
37.5°	6397.9	7565.3	9501.5	9014.2	7766.7	6551.6	5778.4	5315.0	5050.7	4983.6	5031.2
40°	6664.3	8167.4	9923.8	8938.4	7279.4	5865.1	5146.0	4775.7	4626.2	4641.4	4693.4
42.5°	7010.8	8840.9	10220.6	8743.5	6601.5	5156.8	4591.6	4427.0	4498.4	4559.1	4615.4
45°	7461.3	9540.5	10404.7	8412.1	5834.8	4556.9	4264.5	4303.5	4357.7	4364.2	4407.5
47.5°	8037.4	10248.7	10525.9	7911.8	5052.9	4134.6	4056.6	4065.3	4054.4	4009.0	4043.6
50°	8756.5	10937.5	10634.2	7249.0	4388.0	3870.3	3766.4	3736.1	3586.6	3439.3	3458.8
52.5°	9575.1	11569.9	10679.7	6426.0	3870.3	3649.4	3480.5	3289.9	3010.5	2965.0	2980.2
55°	10484.8	12154.7	10562.8	5414.6	3435.0	3365.7	3110.1	2880.6	2850.2	2811.3	2817.7
57.5°	11572.0	12784.9	10324.5	4286.2	2988.8	3034.3	2785.3	2811.3	2757.1	2696.5	2685.6
60°	12761.1	13436.8	9906.5	3257.4	2527.5	2620.7	2700.8	2698.6	2683.5	2633.7	2616.3
62.5°	13831.0	13865.7	9083.5	2495.0	2122.5	2300.1	2518.9	2516.7	2503.7	2475.5	2464.7
65°	14467.8	13800.7	7710.4	1964.4	1789.0	2035.9	2272.0	2289.3	2291.5	2289.3	2289.3
67.5°	14355.1	13040.5	5826.1	1563.7	1513.9	1767.3	2027.2	2051.0	2068.4	2072.7	2077.0
70°	13081.6	11370.6	3798.9	1247.5	1269.2	1531.2	1795.5	1819.3	1834.5	1851.8	1860.5
72.5°	10196.7	8360.1	2174.5	1009.3	1054.8	1327.7	1565.9	1594.1	1602.7	1635.2	1648.2
75°	6213.8	4916.4	1173.9	794.9	866.3	1134.9	1338.5	1371.0	1386.1	1425.1	1429.4
77.5°	2954.2	2129.0	669.2	619.4	697.4	927.0	1130.6	1167.4	1126.2	1147.9	1130.6
80°	998.4	790.5	422.3	472.2	532.8	723.4	905.3	942.1	855.5	851.2	842.5
82.5°	348.7	320.5	268.6	314.0	344.4	517.6	684.4	732.1	636.8	634.6	604.3
85°	136.4	129.9	149.4	171.1	205.8	318.4	450.5	474.3	392.0	316.2	311.9
87.5°	28.2	30.3	36.8	39.0	62.8	110.5	162.4	199.3	158.1	134.3	123.5
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)