

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: P885339

Luminaire Tested: **NAV-SB6C-827-U-T3**

Issue Date: 10/7/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P885339  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-5)  
Test Lab: INNOVATION CENTER  
Issue Date: 10/7/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMARK  
Catalog Number: NAV-SB6C-827-U-T3  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(6) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 36958 lumens  
Efficiency: N/A  
Efficacy: 122.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G4

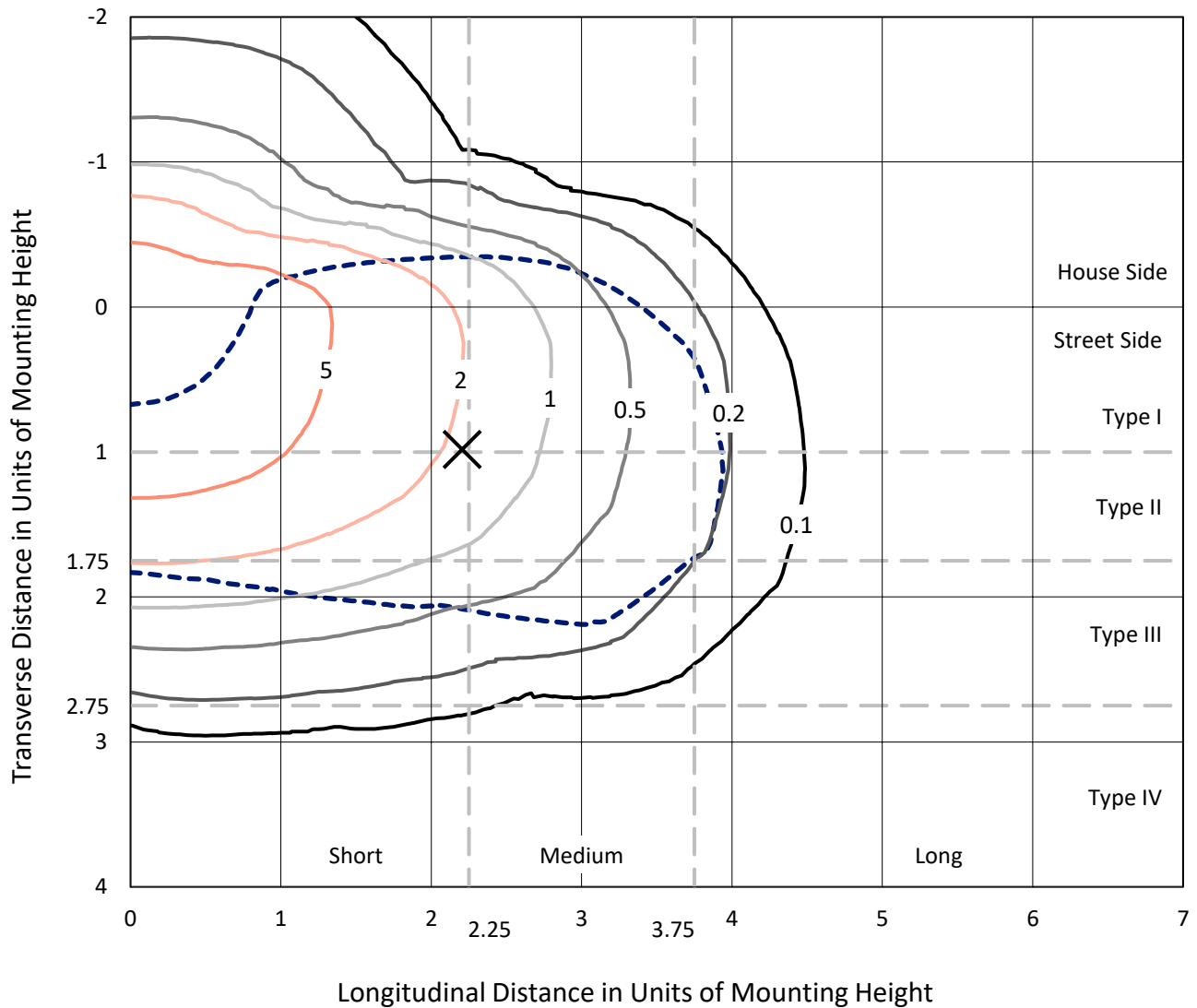
Input Watts (W): 300.9  
Input Voltage (V): 120.0  
Input Current (Ain): 2.518  
Voltage Rise (V): NR  
Power Factor: 0.997  
Total Harmonic Distortion (THDi): 6.297  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

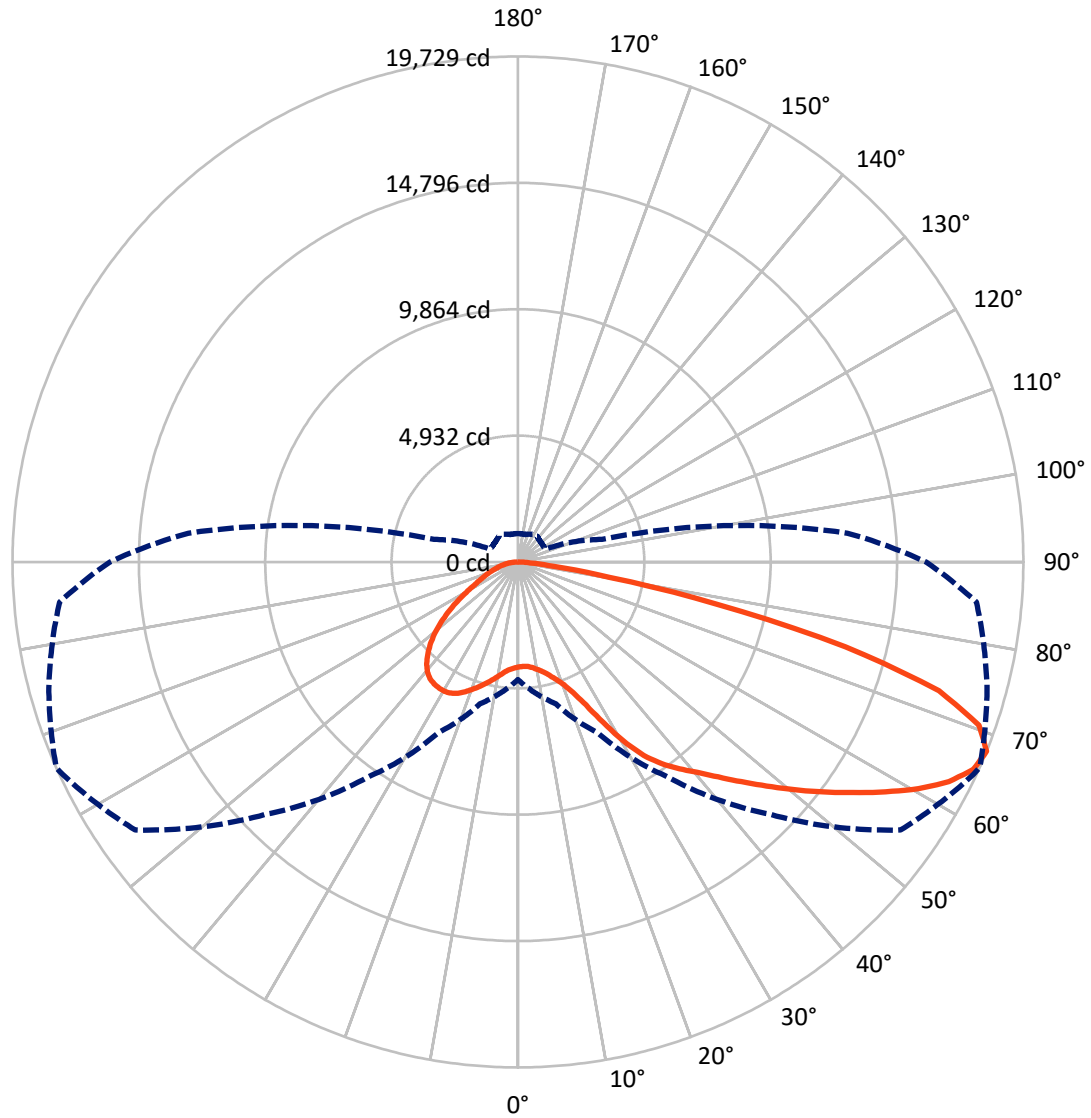
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.3 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral      - - - Horizontal Cone Through 67.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	9189.5	0.0	9189.5
	% Fixture	24.9	0.0	24.9
<b>Street Side</b>	Lumens	27768.5	0.0	27768.5
	% Fixture	75.1	0.0	75.1
<b>Total</b>	Lumens	36958.0	0.0	36958.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	406.4	1.1
10°-20°	1342.7	3.6
20°-30°	2588.0	7.0
30°-40°	4537.8	12.3
40°-50°	6746.2	18.3
50°-60°	8551.5	23.1
60°-70°	8367.4	22.6
70°-80°	3991.3	10.8
80°-90°	426.6	1.2
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°	36958.0	100.0
0°-180°	36958.0	100.0

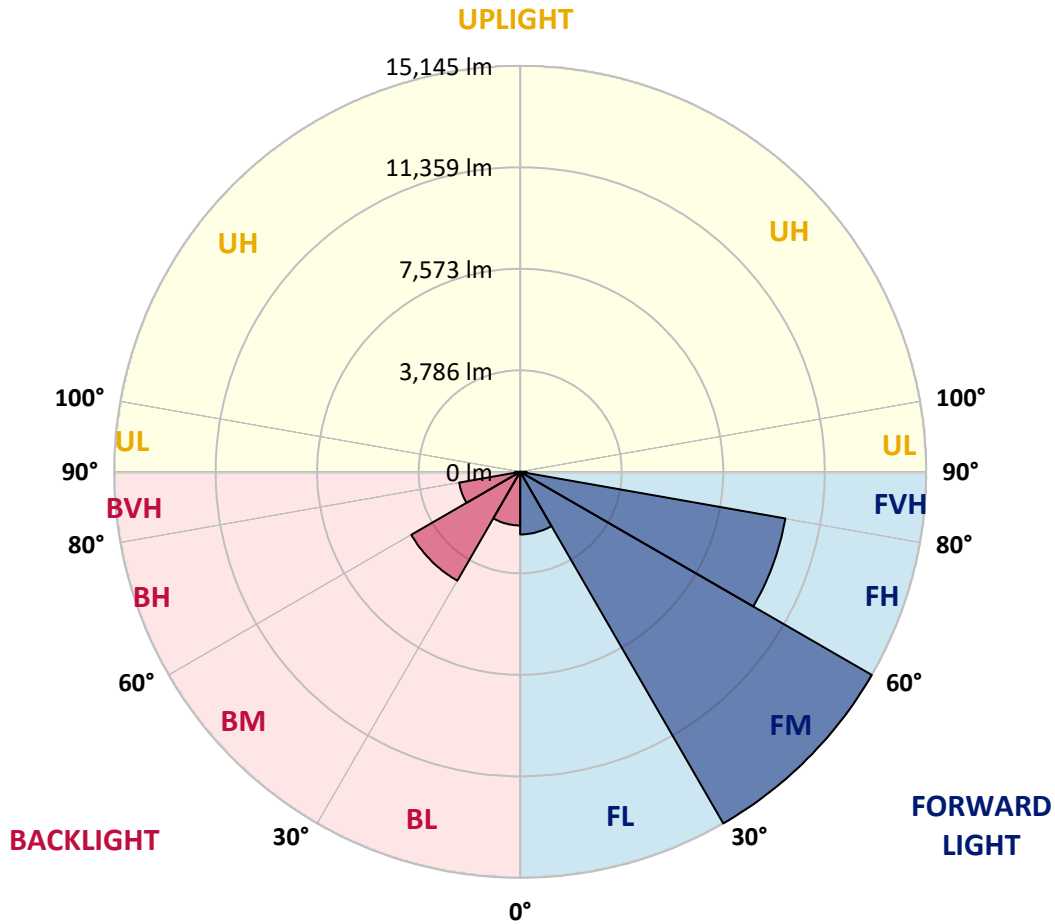


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2335.4	6.3			
FM (30°-60°)	15145.1	41.0			
FH (60°-80°)	10046.2	27.2			G4/12000
FVH (80°-90°)	241.8	0.7			G3/500
BL (0°-30°)	2001.8	5.4	B3/2500		
BM (30°-60°)	4690.4	12.7	B3/5000		
BH (60°-80°)	2312.6	6.3	B3/2500		G3/2500
BVH (80°-90°)	184.7	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G4**  
 Type III Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	4099.1	4099.1	4099.1	4099.1	4099.1	4099.1	4099.1	4099.1	4099.1	4099.1	4099.1
2.5°	4056.4	4079.7	4073.9	4064.2	4062.2	4066.1	4071.9	4077.8	4075.8	4085.5	4101.1
5°	4044.8	4068.1	4066.1	4066.1	4073.9	4089.4	4099.1	4108.8	4099.1	4110.8	4132.1
7.5°	4052.5	4070.0	4077.8	4085.5	4105.0	4134.1	4157.4	4178.7	4167.1	4180.7	4207.9
10°	4151.6	4165.2	4172.9	4172.9	4186.5	4219.5	4242.8	4281.7	4272.0	4293.3	4328.3
12.5°	4332.1	4345.7	4345.7	4338.0	4347.7	4369.0	4376.8	4419.5	4402.1	4437.0	4472.0
15°	4553.5	4580.7	4559.3	4545.7	4549.6	4571.0	4569.0	4602.1	4584.6	4613.7	4644.8
17.5°	4798.2	4833.1	4798.2	4796.2	4788.5	4811.8	4813.7	4842.8	4811.8	4833.1	4854.5
20°	5087.5	5136.0	5106.9	5116.6	5099.2	5108.9	5118.6	5161.3	5112.7	5128.3	5122.5
22.5°	5495.3	5553.5	5522.5	5559.4	5547.7	5539.9	5538.0	5613.7	5538.0	5543.8	5487.5
25°	6089.5	6159.4	6105.0	6155.5	6155.5	6180.7	6209.9	6307.0	6180.7	6143.8	5998.2
27.5°	6967.2	7037.1	6930.3	6961.3	6951.6	7013.8	6982.7	7223.5	7087.6	7027.4	6734.1
30°	8023.5	8147.8	7945.8	7938.1	7928.4	8027.4	8072.0	8231.3	8093.4	8033.2	7679.8
32.5°	9165.3	9295.4	9054.6	8984.7	8947.8	9008.0	8971.1	9099.3	9004.1	8910.9	8474.0
35°	10373.1	10501.2	10272.1	10136.2	9988.6	9862.4	9730.3	9763.3	9674.0	9532.3	9079.8
37.5°	11514.8	11749.8	11507.1	11361.4	11089.6	10843.0	10474.0	10320.6	10237.1	10107.0	9650.7
40°	12678.0	12812.0	12627.5	12503.2	12208.1	11821.7	11231.3	10907.1	10794.4	10668.2	10281.8
42.5°	13534.3	13662.5	13563.4	13478.0	13246.9	12798.4	12035.2	11629.4	11466.3	11324.6	10996.4
45°	14213.9	14309.1	14247.0	14278.0	14179.0	13744.0	12868.3	12404.2	12235.3	12062.4	11804.2
47.5°	14487.7	14588.7	14687.7	14872.2	15041.1	14720.8	13763.4	13243.0	13064.4	12887.7	12633.3
50°	14456.7	14559.6	14847.0	15239.2	15763.5	15656.7	14707.2	14136.3	13971.2	13769.3	13534.3
52.5°	14208.1	14324.6	14693.6	15346.0	16181.0	16357.7	15668.3	15058.6	14903.3	14662.5	14427.5
55°	13555.7	13625.6	14179.0	15103.3	16280.0	16847.0	16610.1	16041.2	15885.8	15549.9	15293.6
57.5°	12345.9	12446.9	13252.8	14448.9	16031.5	17179.1	17437.3	17074.2	16924.7	16441.2	16173.2
60°	10767.3	10928.4	11850.8	13349.8	15398.4	17177.1	18188.8	18089.8	17965.5	17318.9	17039.3
62.5°	8980.8	9167.2	10054.6	11796.4	14291.6	16689.7	18658.7	18940.3	18876.2	18128.6	17771.3
65°	6897.3	7025.4	7908.9	9786.7	12569.2	15643.1	18713.1	19520.9	19532.5	18744.2	18153.8
67.5°	4592.3	4961.3	5728.3	7343.9	10262.4	13932.4	18235.4	19616.0	19728.6	18955.8	17961.6
70°	2240.8	2726.3	3477.8	4772.9	7343.9	11309.0	16986.8	18835.4	19085.9	18338.3	16816.0
72.5°	930.1	1087.4	1497.1	2355.4	4215.6	7631.3	14478.0	16718.9	17182.9	16248.9	14138.2
75°	627.2	679.6	856.3	1207.8	1920.4	3763.2	10441.0	12466.3	13213.9	12272.1	10031.3
77.5°	483.5	516.5	623.3	844.7	1141.8	1423.3	5588.5	7512.8	7899.2	7312.8	5219.5
80°	380.6	405.8	466.0	615.5	809.7	761.2	1904.9	3404.0	3627.3	3042.8	1677.7
82.5°	330.1	339.8	334.0	417.5	537.9	444.7	625.3	1256.3	1386.4	1005.9	547.6
85°	238.8	266.0	277.7	258.3	285.4	225.2	256.3	444.7	489.3	436.9	308.7
87.5°	97.1	143.7	176.7	167.0	104.9	64.1	79.6	130.1	149.5	163.1	101.0
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°	4099.1	4099.1	4099.1	4099.1	4099.1	4099.1	4099.1	4099.1	4099.1	4099.1	4099.1
2.5°	4103.0	4116.6	4126.3	4138.0	4145.7	4157.4	4180.7	4194.3	4196.2	4205.9	4204.0
5°	4139.9	4159.3	4180.7	4211.8	4246.7	4275.8	4320.5	4351.6	4363.2	4372.9	4371.0
7.5°	4219.5	4246.7	4285.5	4339.9	4390.4	4429.2	4483.6	4520.5	4557.4	4571.0	4572.9
10°	4338.0	4376.8	4433.1	4506.9	4561.3	4611.8	4668.1	4699.1	4736.0	4751.6	4759.3
12.5°	4485.5	4526.3	4600.1	4703.0	4753.5	4788.5	4807.9	4800.1	4807.9	4821.5	4825.4
15°	4654.5	4699.1	4782.6	4893.3	4928.3	4897.2	4854.5	4815.7	4809.8	4813.7	4827.3
17.5°	4854.5	4887.5	4984.6	5077.8	5052.6	4924.4	4831.2	4769.1	4738.0	4728.3	4741.9
20°	5134.1	5134.1	5213.7	5272.0	5103.0	4885.6	4739.9	4638.9	4574.9	4547.7	4541.9
22.5°	5473.9	5442.9	5493.3	5452.6	5093.3	4776.8	4574.9	4400.1	4303.0	4264.2	4258.4
25°	5905.0	5868.1	5854.5	5602.1	5023.4	4604.0	4275.8	4064.2	3978.7	3957.4	3961.3
27.5°	6555.5	6462.3	6285.6	5683.6	4895.3	4332.1	3926.3	3730.2	3681.6	3683.6	3689.4
30°	7421.5	7235.1	6802.1	5697.2	4685.6	3947.7	3569.0	3429.2	3405.9	3415.6	3448.6
32.5°	8223.5	8046.8	7330.3	5635.1	4363.2	3571.0	3248.6	3155.4	3120.5	3132.1	3147.7
35°	8852.6	8804.1	7819.6	5547.7	3967.1	3217.6	2961.2	2881.6	2813.7	2798.1	2809.8
37.5°	9446.8	9427.4	8186.6	5425.4	3574.8	2967.1	2730.2	2625.3	2526.3	2471.9	2473.8
40°	10099.3	10079.9	8427.4	5237.0	3227.3	2749.6	2522.4	2384.5	2262.2	2163.2	2172.9
42.5°	10833.3	10718.7	8542.0	4967.1	2932.1	2565.1	2353.5	2167.0	2005.9	1914.6	1920.4
45°	11635.2	11377.0	8540.0	4623.4	2683.6	2396.2	2172.9	1908.8	1759.3	1673.8	1669.9
47.5°	12485.7	12006.1	8435.2	4242.8	2442.8	2209.8	1893.3	1691.3	1592.3	1539.8	1528.2
50°	13363.4	12594.5	8256.5	3805.9	2196.2	1998.1	1718.5	1580.6	1504.9	1456.3	1438.9
52.5°	14188.7	13128.5	8041.0	3310.8	1945.7	1792.3	1640.8	1534.0	1454.4	1400.0	1376.7
55°	14955.7	13588.7	7736.1	2804.0	1741.8	1654.4	1603.9	1514.6	1423.3	1359.3	1334.0
57.5°	15637.3	13887.7	7209.9	2328.2	1596.2	1559.3	1565.1	1481.6	1376.7	1322.4	1287.4
60°	16204.3	14107.1	6431.2	1887.4	1477.7	1466.1	1504.9	1419.5	1297.1	1235.0	1207.8
62.5°	16544.1	14103.3	5475.9	1545.7	1376.7	1380.6	1425.3	1341.8	1217.5	1159.3	1141.8
65°	16515.0	13757.6	4427.3	1322.4	1279.6	1283.5	1341.8	1256.3	1151.5	1116.5	1114.6
67.5°	15930.5	12914.9	3396.2	1176.7	1172.8	1190.3	1258.3	1198.1	1110.7	1106.8	1112.6
70°	14347.9	11165.3	2446.7	1060.2	1062.2	1087.4	1176.7	1161.2	1089.3	1097.1	1095.2
72.5°	11505.1	8512.8	1642.8	937.9	939.8	980.6	1099.1	1132.1	1068.0	1170.9	1186.4
75°	7662.3	5308.9	1056.3	807.8	809.7	862.2	1031.1	1075.8	1009.7	1167.0	1176.7
77.5°	3681.6	2386.5	765.1	679.6	679.6	728.2	891.3	963.1	860.2	906.8	831.1
80°	1271.9	897.1	602.0	547.6	535.9	568.9	751.5	835.0	741.8	683.5	640.8
82.5°	501.0	466.0	483.5	425.3	386.4	407.8	584.5	689.3	545.6	493.2	491.3
85°	287.4	302.9	341.8	281.6	223.3	250.5	429.1	495.2	411.7	363.1	370.9
87.5°	77.7	106.8	157.3	145.6	101.0	106.8	203.9	273.8	236.9	182.5	188.4
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)