

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: P970839

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

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P970839  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-25)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMARK  
Catalog Number: NAV-SB6C-727-U-T4FT-HSS  
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 WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

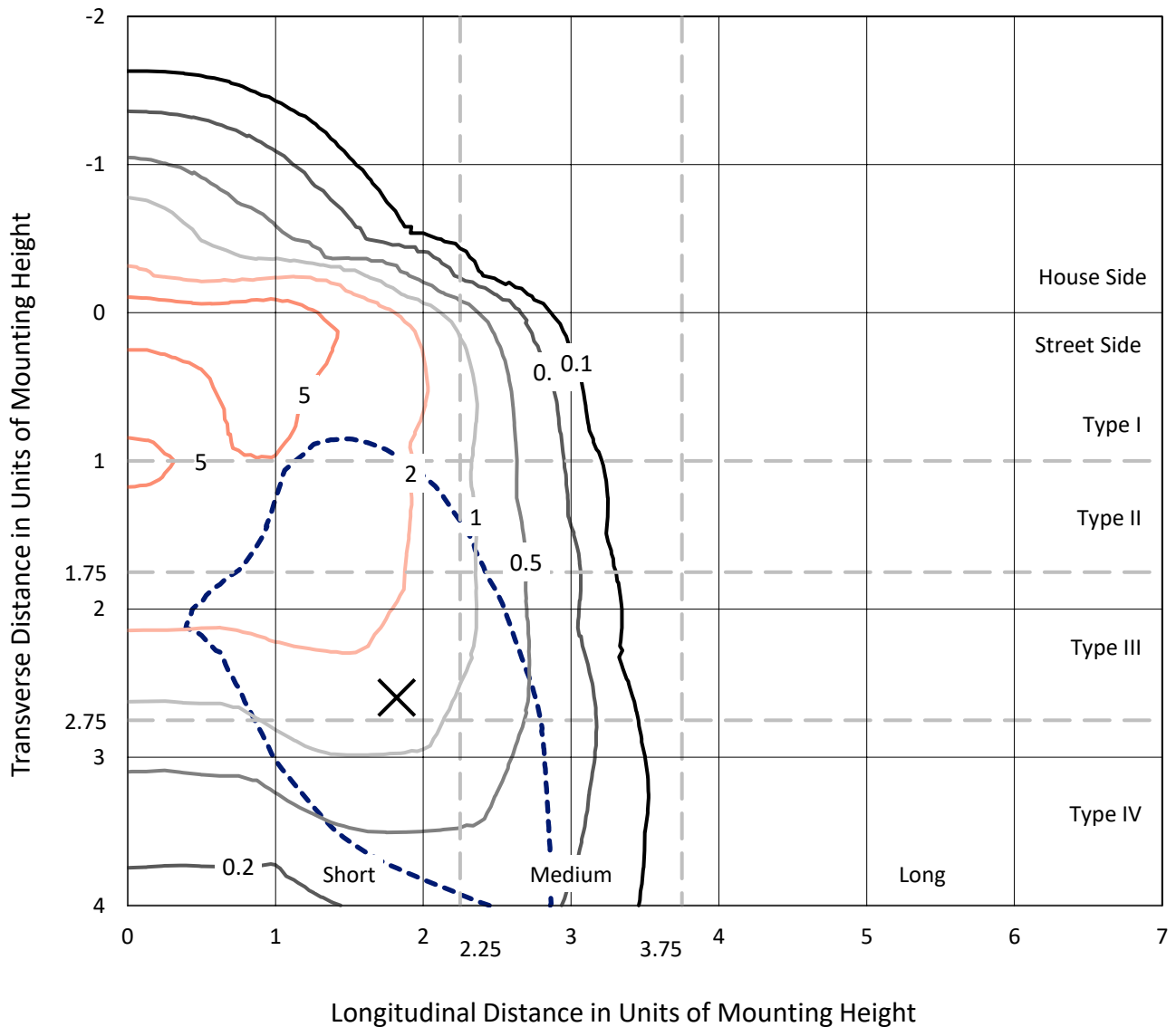
Lumens per Lamp: N/A  
Luminaire Lumens: 32691.3 lumens  
Efficiency: N/A  
Efficacy: 108.6 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G5  
  
Input Watts (W): 300.9  
Input Voltage (V): NR  
Input Current (Ain): 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

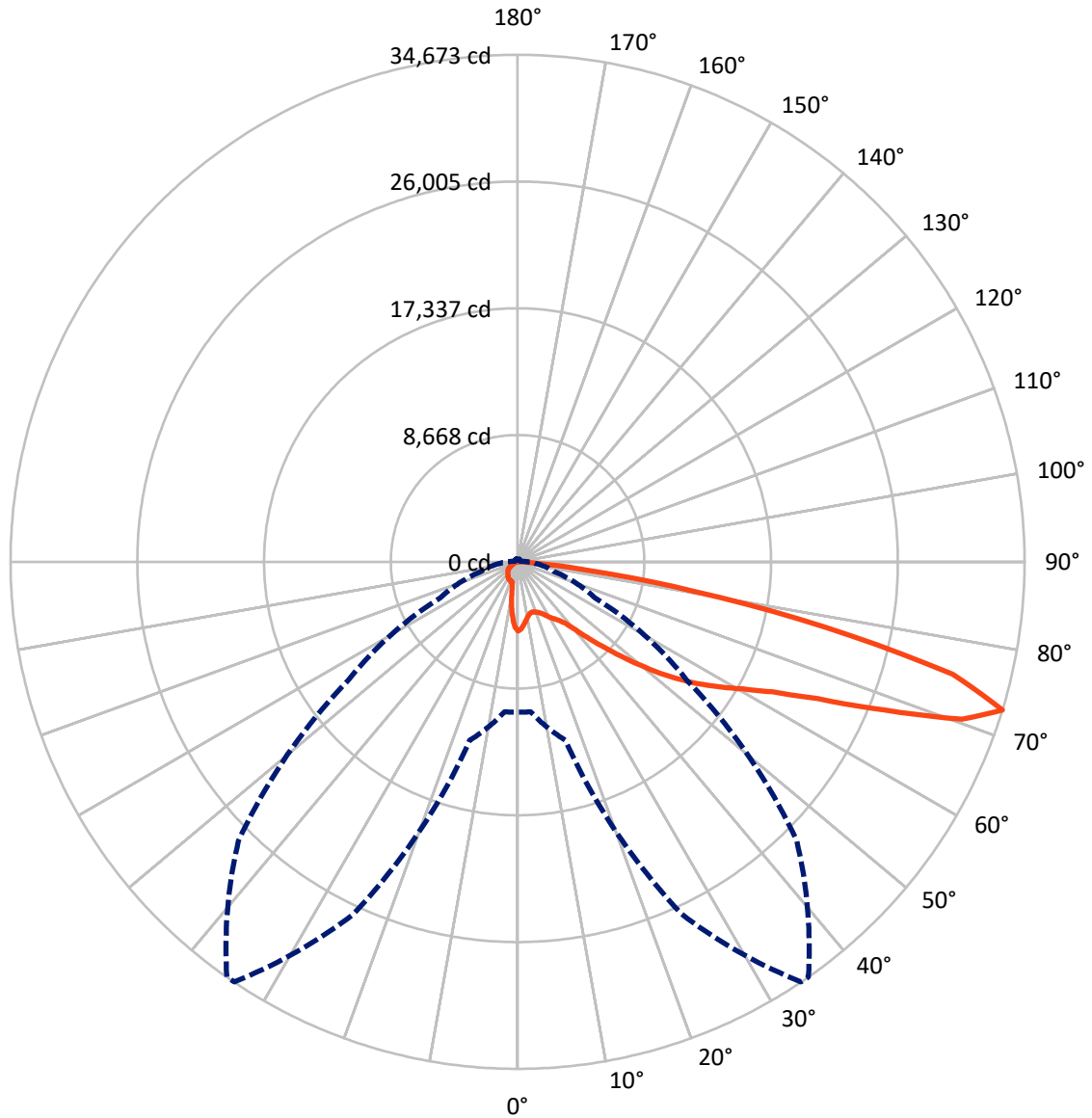
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.6 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral      - - - Horizontal Cone Through 72.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3679.3	0.0	3679.3
	% Fixture	11.3	0.0	11.3
<b>Street Side</b>	Lumens	29012.1	0.0	29012.1
	% Fixture	88.7	0.0	88.7
<b>Total</b>	Lumens	32691.3	0.0	32691.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	389.3	1.2
10°-20°	910.8	2.8
20°-30°	1479.6	4.5
30°-40°	2468.7	7.6
40°-50°	4670.9	14.3
50°-60°	7422.0	22.7
60°-70°	9181.5	28.1
70°-80°	5707.3	17.5
80°-90°	461.2	1.4
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°	32691.3	100.0
0°-180°	32691.3	100.0

**Coefficient of Utilization**



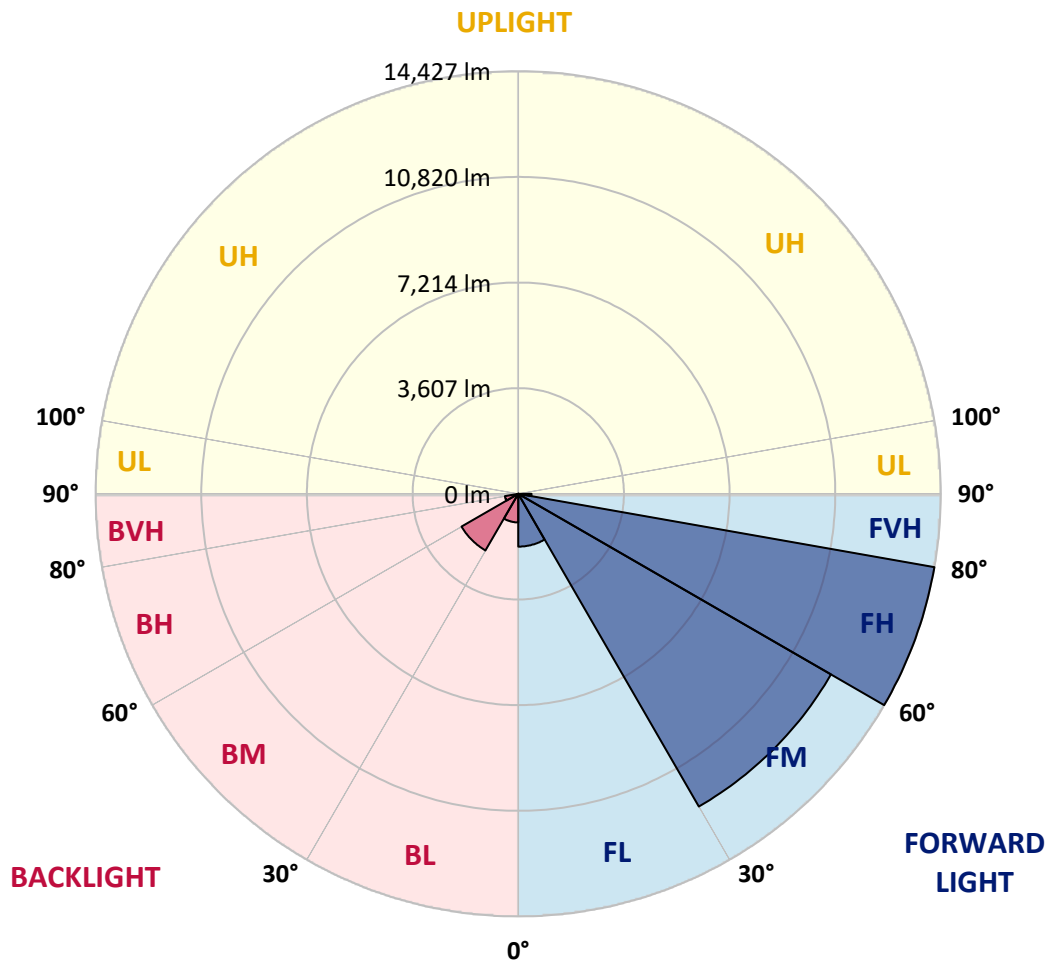
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1802.1	5.5			
FM (30°-60°)	12327.9	37.7			
FH (60°-80°)	14427.1	44.1			G5
FVH (80°-90°)	455.0	1.4			G3/500
BL (0°-30°)	977.7	3.0	B2/1000		
BM (30°-60°)	2233.6	6.8	B2/2500		
BH (60°-80°)	461.7	1.4	B1/500		G1/500
BVH (80°-90°)	6.3	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G5**

Type IV Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	4738.1	4738.1	4738.1	4738.1	4738.1	4738.1	4738.1	4738.1	4738.1	4738.1	4738.1
2.5°	4527.3	4565.6	4572.8	4584.7	4584.7	4599.2	4623.1	4656.7	4711.7	4740.4	4759.6
5°	4172.8	4201.5	4237.5	4266.2	4321.3	4328.5	4421.8	4512.9	4639.9	4735.7	4802.7
7.5°	3815.9	3849.4	3897.3	3966.7	4038.6	4060.1	4201.5	4354.8	4556.0	4735.7	4848.2
10°	3564.3	3566.7	3609.8	3679.3	3794.2	3820.7	3993.1	4211.1	4462.6	4706.9	4891.4
12.5°	3423.0	3439.8	3459.0	3511.6	3621.8	3638.5	3823.0	4079.3	4369.2	4690.2	4941.7
15°	3423.0	3435.0	3447.0	3473.3	3562.0	3576.3	3739.2	3995.6	4321.3	4697.4	5023.1
17.5°	3459.0	3478.1	3468.5	3499.7	3593.0	3602.7	3746.4	3971.6	4318.8	4742.9	5147.7
20°	3545.2	3559.5	3540.4	3559.5	3653.0	3672.2	3820.7	4017.1	4359.6	4821.9	5303.3
22.5°	3681.7	3688.9	3643.4	3657.7	3753.6	3777.5	3949.9	4146.4	4457.8	4948.9	5511.7
25°	3854.2	3868.6	3799.1	3815.9	3906.9	3935.6	4134.4	4340.5	4613.5	5123.8	5777.7
27.5°	4053.0	4060.1	4000.3	3997.9	4115.3	4156.0	4357.2	4580.0	4821.9	5344.1	6113.0
30°	4280.6	4302.1	4244.6	4235.0	4383.5	4417.1	4615.9	4874.6	5128.5	5674.7	6589.7
32.5°	4460.2	4477.0	4443.5	4467.4	4618.3	4644.7	4929.7	5291.4	5610.0	6144.2	7238.9
35°	4718.9	4728.5	4651.9	4694.9	4867.4	4934.5	5358.5	5875.9	6216.0	6733.4	8086.8
37.5°	5655.5	5655.5	5329.7	5116.5	5281.8	5341.7	5945.3	6611.2	6963.3	7523.9	9155.2
40°	6951.4	6929.8	6453.2	6017.2	5995.6	6113.0	6781.3	7538.3	7928.7	8472.4	10357.6
42.5°	8333.6	8300.0	7650.9	7219.7	7147.8	7188.5	7746.6	8680.8	9078.5	9629.5	11651.2
45°	9560.0	9550.4	8956.3	8376.7	8247.4	8376.7	8951.5	10017.5	10302.6	10882.2	12942.3
47.5°	10587.6	10587.6	10154.1	9775.5	9708.5	9785.2	10582.8	11500.3	11473.8	12216.5	14199.8
50°	11770.9	11761.4	11349.3	11186.4	11255.9	11363.7	12460.8	13062.1	12685.9	13526.7	15323.2
52.5°	12599.7	12657.2	12515.9	12489.5	12844.1	13030.9	14367.5	14590.3	13771.1	14769.9	16164.0
55°	13256.0	13323.2	13486.0	13670.4	14353.2	14597.4	16214.4	16039.5	14678.9	15847.8	16647.9
57.5°	14185.5	14089.6	14341.2	14705.3	15809.5	16104.2	18003.7	17407.3	15409.5	16722.2	16700.6
60°	15313.7	15328.1	15371.2	15831.1	17263.6	17642.0	19766.7	18700.8	15879.0	17258.7	16116.2
62.5°	16669.5	16691.0	16779.7	17486.3	19215.8	19572.7	21644.7	19759.5	16094.6	17107.9	14607.1
65°	16576.1	16667.1	17656.3	20073.3	22183.7	22535.8	23836.5	20502.2	15768.8	15728.1	11893.1
67.5°	15100.5	15249.0	16904.2	23163.4	26658.2	27051.1	26485.8	20648.2	14362.7	12230.8	7758.6
70°	13165.0	13217.8	15208.3	25942.0	31839.5	32237.1	28857.2	19040.9	10899.0	6822.1	3475.7
72.5°	10281.0	10292.9	12628.5	26586.3	34651.7	34673.2	26996.0	14135.2	5861.5	2620.5	1207.2
75°	7344.2	7272.4	8458.1	21560.9	30486.1	30730.4	20238.6	6630.4	2239.7	1238.4	601.3
77.5°	3938.0	4017.1	4785.9	12786.6	21060.3	21477.0	11042.7	1911.5	1140.2	843.2	397.6
80°	1216.9	1283.9	1961.8	5854.3	11929.1	12180.5	4093.7	850.3	795.3	601.3	261.1
82.5°	383.2	397.6	915.0	2460.1	4951.3	5066.3	1185.7	481.4	543.8	397.6	153.3
85°	110.2	112.5	407.2	917.5	1224.1	1248.0	332.9	186.9	311.4	246.7	79.0
87.5°	12.0	38.3	153.3	153.3	107.8	105.4	36.0	40.7	88.7	31.2	14.3
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°	4738.1	4738.1	4738.1	4738.1	4738.1	4738.1	4738.1	4738.1	4738.1	4738.1	4738.1
2.5°	4747.7	4750.1	4718.9	4666.2	4608.7	4560.8	4501.0	4453.0	4419.5	4409.9	4426.7
5°	4781.2	4764.4	4675.7	4515.3	4323.7	4158.4	3973.9	3827.9	3732.0	3691.3	3705.7
7.5°	4831.5	4783.6	4589.5	4273.3	3906.9	3581.1	3250.6	2994.2	2831.4	2749.9	2761.9
10°	4874.6	4778.8	4445.8	3923.6	3363.1	2869.7	2424.1	2115.1	1942.7	1861.2	1863.7
12.5°	4915.3	4776.4	4259.0	3509.2	2749.9	2146.2	1731.8	1578.6	1530.6	1513.9	1509.1
15°	4992.0	4783.6	4024.3	3034.9	2139.1	1621.7	1470.8	1468.4	1477.9	1473.1	1470.8
17.5°	5097.4	4790.7	3758.4	2532.0	1650.5	1430.1	1422.9	1444.4	1458.8	1451.6	1449.2
20°	5234.0	4819.5	3475.7	2033.7	1418.1	1382.1	1398.9	1418.1	1430.1	1418.1	1415.6
22.5°	5425.5	4869.8	3166.7	1633.6	1343.8	1353.4	1367.8	1389.3	1401.3	1384.6	1382.1
25°	5660.3	4948.9	2862.5	1420.4	1307.9	1319.9	1341.4	1365.4	1379.8	1362.9	1360.6
27.5°	5964.5	5075.8	2582.2	1372.6	1271.9	1279.1	1310.3	1346.2	1365.4	1343.8	1343.8
30°	6405.2	5284.2	2340.3	1394.1	1250.4	1233.6	1276.7	1327.1	1348.6	1329.4	1327.1
32.5°	6989.8	5578.9	2191.8	1427.6	1240.8	1180.9	1221.7	1286.3	1322.2	1310.3	1310.3
35°	7756.3	6026.8	2134.3	1466.0	1233.6	1125.9	1154.6	1224.1	1286.3	1298.3	1298.3
37.5°	8685.6	6649.6	2151.1	1482.8	1212.1	1080.4	1094.7	1154.6	1236.0	1274.4	1283.9
40°	9742.0	7375.4	2246.9	1466.0	1188.1	1042.0	1044.4	1089.9	1161.7	1219.2	1238.4
42.5°	10831.9	8223.4	2424.1	1403.7	1166.6	1008.5	1001.2	1032.4	1080.4	1121.0	1137.9
45°	11869.1	9095.2	2599.0	1317.4	1140.2	974.9	958.2	970.2	979.7	996.5	1006.0
47.5°	12774.6	9708.5	2548.7	1238.4	1104.2	936.6	907.8	903.0	874.3	872.0	869.5
50°	13399.8	9842.7	2263.6	1159.4	1051.5	893.5	848.0	819.2	769.0	745.0	747.3
52.5°	13598.6	9313.3	1849.2	1080.4	965.3	836.0	771.3	725.8	663.5	642.0	639.6
55°	13335.1	8276.1	1477.9	984.5	845.5	759.3	687.5	627.6	577.3	550.9	550.9
57.5°	12690.7	6956.2	1168.9	872.0	718.6	673.1	601.3	541.4	498.3	471.9	467.1
60°	11622.4	5523.7	924.7	737.8	613.3	579.6	505.4	467.1	428.8	397.6	390.4
62.5°	10000.7	3942.8	725.8	584.5	512.6	474.3	431.2	402.4	356.9	313.8	306.6
65°	7804.1	2412.1	560.5	428.8	412.0	392.9	366.5	340.1	285.1	241.9	234.7
67.5°	4922.6	1142.6	400.1	323.4	325.7	316.2	304.2	282.7	241.9	203.6	198.8
70°	2167.9	553.3	263.5	246.7	241.9	241.9	251.5	244.4	206.0	170.0	162.9
72.5°	737.8	297.0	196.4	186.9	174.9	172.5	210.8	203.6	165.3	131.7	124.5
75°	385.7	198.8	143.7	134.2	105.4	127.0	167.7	158.1	117.4	86.2	79.0
77.5°	251.5	141.3	98.2	86.2	59.9	83.8	124.5	110.2	69.5	43.2	38.3
80°	158.1	93.4	57.5	40.7	28.7	45.5	67.0	47.9	26.3	9.5	7.2
82.5°	83.8	47.9	21.5	14.3	12.0	14.3	16.8	12.0	4.8	0.0	0.0
85°	33.5	16.8	7.2	4.8	2.4	0.0	4.8	2.4	0.0	0.0	0.0
87.5°	12.0	2.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)