

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: P884599

Luminaire Tested: **NAV-SB5C-727-U-T3**

Issue Date: 10/7/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P884599  
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-SB5C-727-U-T3  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(5) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

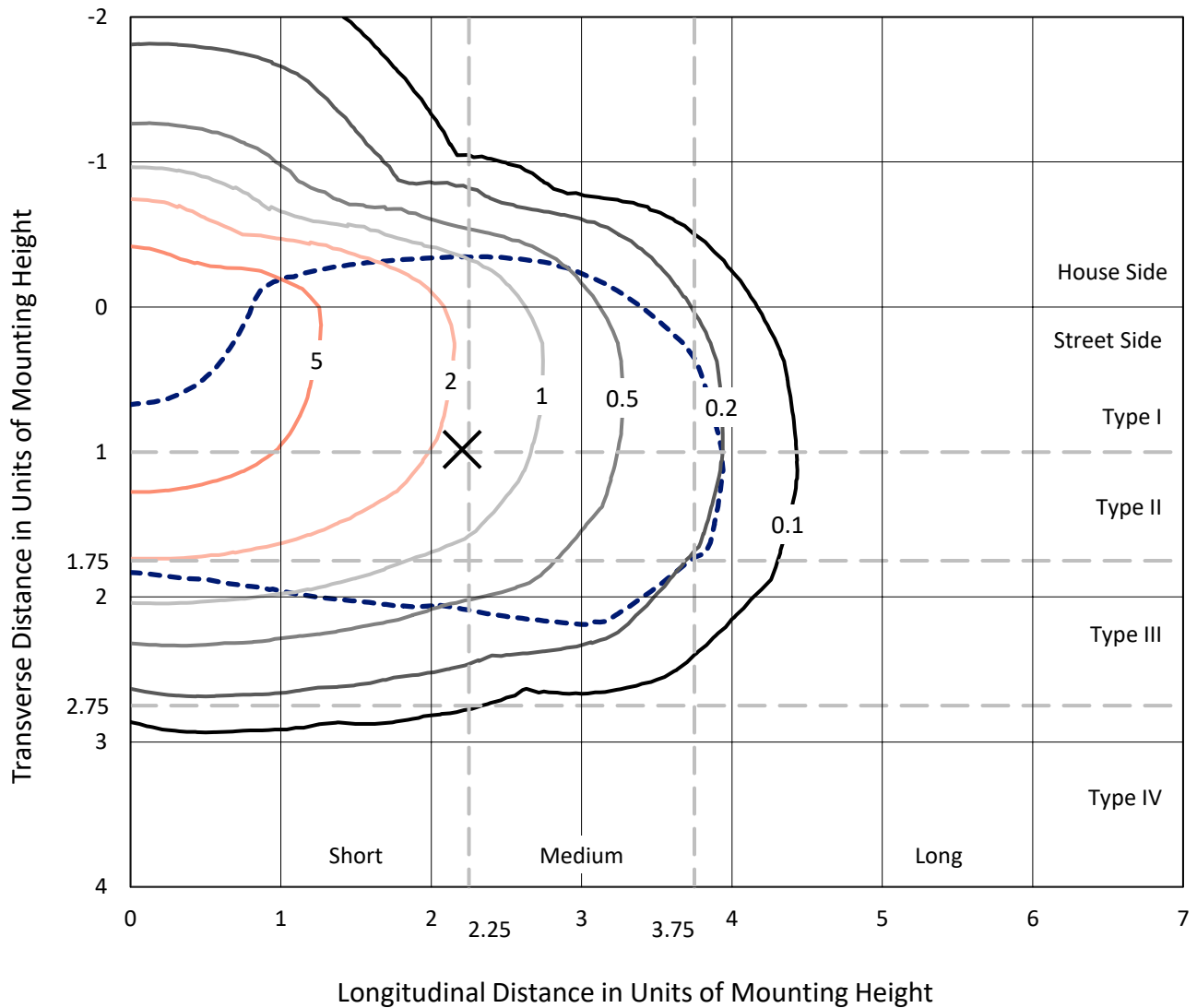
Lumens per Lamp: N/A  
Luminaire Lumens: 34463 lumens  
Efficiency: N/A  
Efficacy: 138.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G4  
  
Input Watts (W): 249.5  
Input Voltage (V): 120.0  
Input Current (Ain): 2.116  
Voltage Rise (V): NR  
Power Factor: 0.996  
Total Harmonic Distortion (THDi): 7.885  
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

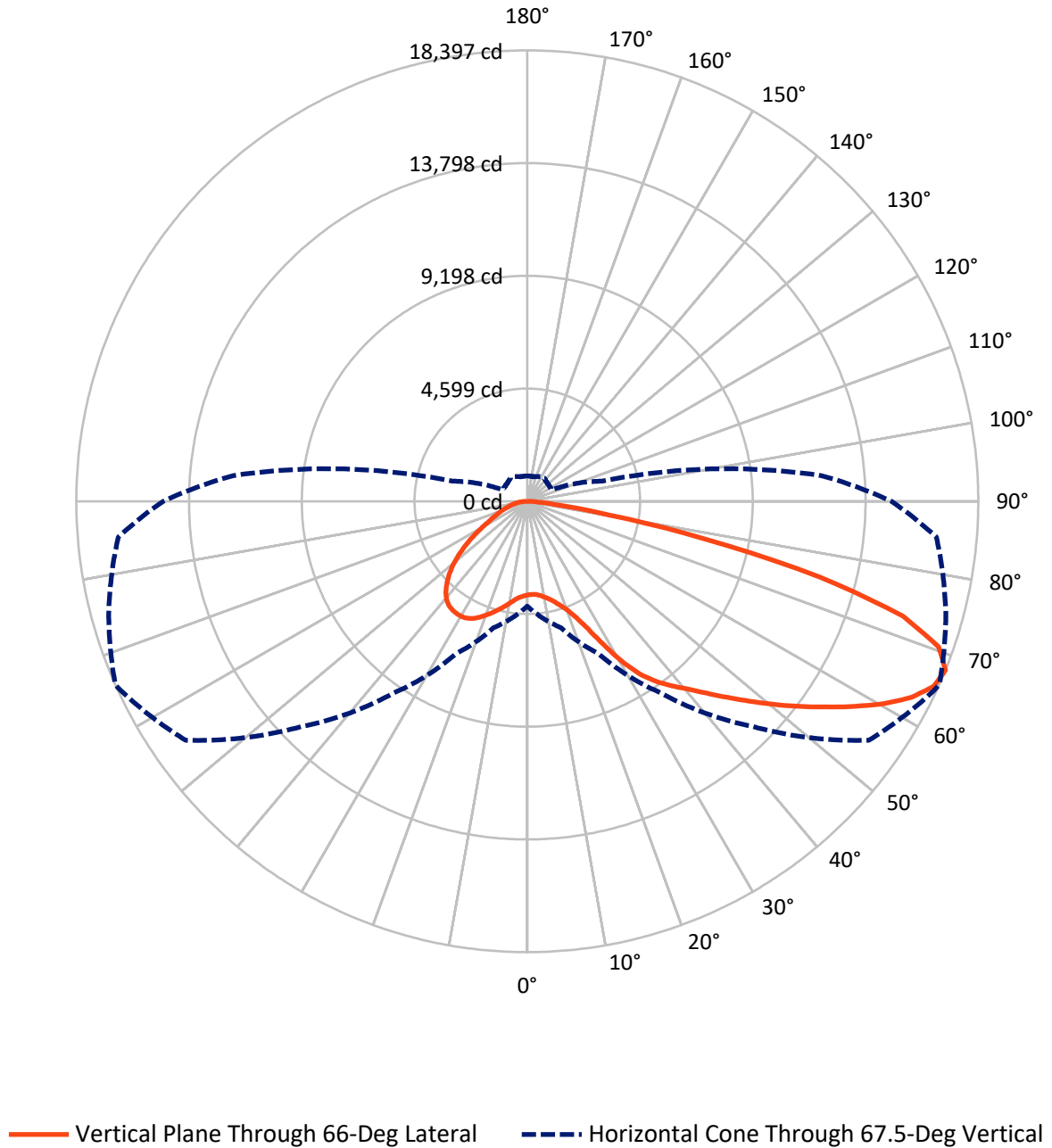
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.7 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	8569.1	0.0	8569.1
	% Fixture	24.9	0.0	24.9
<b>Street Side</b>	Lumens	25893.9	0.0	25893.9
	% Fixture	75.1	0.0	75.1
<b>Total</b>	Lumens	34463.0	0.0	34463.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	379.0	1.1
10°-20°	1252.1	3.6
20°-30°	2413.3	7.0
30°-40°	4231.5	12.3
40°-50°	6290.8	18.3
50°-60°	7974.2	23.1
60°-70°	7802.5	22.6
70°-80°	3721.9	10.8
80°-90°	397.8	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°	34463.0	100.0
0°-180°	34463.0	100.0

**Coefficient of Utilization**



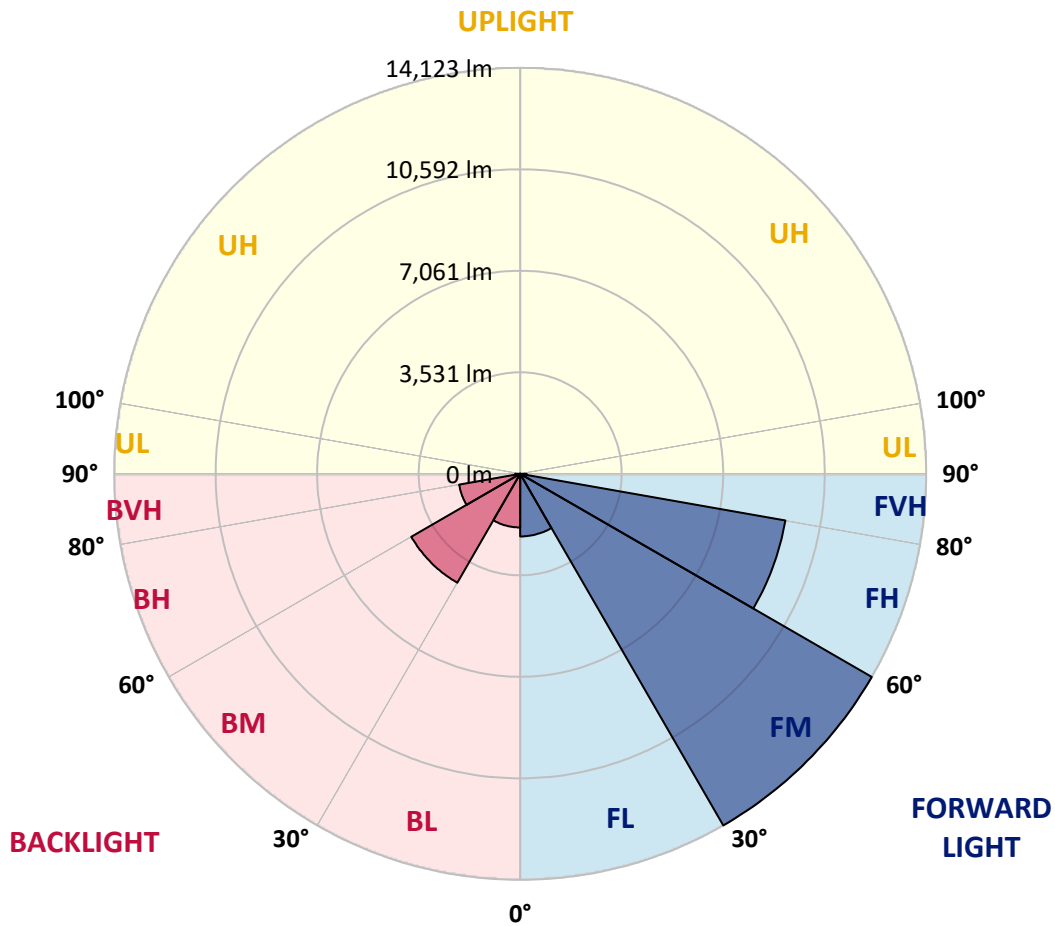
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2177.7	6.3			
FM (30°-60°)	14122.6	41.0			
FH (60°-80°)	9368.0	27.2			G4/12000
FVH (80°-90°)	225.5	0.7			G3/500
BL (0°-30°)	1866.7	5.4	B3/2500		
BM (30°-60°)	4373.8	12.7	B3/5000		
BH (60°-80°)	2156.4	6.3	B3/2500		G3/2500
BVH (80°-90°)	172.2	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°	3822.4	3822.4	3822.4	3822.4	3822.4	3822.4	3822.4	3822.4	3822.4	3822.4	3822.4
2.5°	3782.6	3804.3	3798.9	3789.8	3788.0	3791.6	3797.1	3802.5	3800.7	3809.7	3824.2
5°	3771.7	3793.4	3791.6	3791.6	3798.9	3813.3	3822.4	3831.5	3822.4	3833.3	3853.2
7.5°	3778.9	3795.2	3802.5	3809.7	3827.8	3855.0	3876.7	3896.6	3885.8	3898.5	3923.8
10°	3871.3	3884.0	3891.2	3891.2	3903.9	3934.7	3956.4	3992.6	3983.6	4003.5	4036.1
12.5°	4039.7	4052.4	4052.4	4045.1	4054.2	4074.1	4081.3	4121.2	4104.9	4137.5	4170.1
15°	4246.1	4271.5	4251.5	4238.9	4242.5	4262.4	4260.6	4291.4	4275.1	4302.2	4331.2
17.5°	4474.3	4506.8	4474.3	4472.4	4465.2	4486.9	4488.7	4515.9	4486.9	4506.8	4526.8
20°	4744.1	4789.3	4762.2	4771.2	4754.9	4764.0	4773.0	4812.9	4767.6	4782.1	4776.6
22.5°	5124.3	5178.6	5149.7	5184.1	5173.2	5165.9	5164.1	5234.8	5164.1	5169.6	5117.1
25°	5678.4	5743.6	5692.9	5739.9	5739.9	5763.5	5790.6	5881.2	5763.5	5729.1	5593.3
27.5°	6496.8	6562.0	6462.4	6491.4	6482.3	6540.3	6511.3	6735.8	6609.1	6552.9	6279.5
30°	7481.8	7597.7	7409.4	7402.2	7393.1	7485.5	7527.1	7675.6	7547.0	7490.9	7161.3
32.5°	8546.5	8667.9	8443.3	8378.1	8343.7	8399.9	8365.5	8485.0	8396.2	8309.3	7901.9
35°	9672.8	9792.3	9578.6	9451.9	9314.3	9196.6	9073.5	9104.2	9020.9	8888.8	8466.9
37.5°	10737.5	10956.6	10730.2	10594.4	10340.9	10111.0	9767.0	9623.9	9546.0	9424.7	8999.2
40°	11822.1	11947.0	11775.0	11659.1	11383.9	11023.6	10473.1	10170.7	10065.7	9948.0	9587.7
42.5°	12620.6	12740.1	12647.8	12568.1	12352.6	11934.4	11222.8	10844.3	10692.2	10560.0	10254.0
45°	13254.4	13343.1	13285.2	13314.1	13221.8	12816.2	11999.6	11566.8	11409.3	11248.1	11007.3
47.5°	13509.7	13603.8	13696.2	13868.2	14025.7	13727.0	12834.3	12349.0	12182.4	12017.7	11780.5
50°	13480.7	13576.7	13844.7	14210.4	14699.3	14599.7	13714.3	13181.9	13028.0	12839.7	12620.6
52.5°	13248.9	13357.6	13701.6	14310.0	15088.6	15253.4	14610.6	14042.0	13897.2	13672.6	13453.6
55°	12640.5	12705.7	13221.8	14083.7	15181.0	15709.7	15488.8	14958.2	14813.4	14500.1	14261.1
57.5°	11512.5	11606.6	12358.1	13473.5	14949.2	16019.3	16260.1	15921.5	15782.1	15331.3	15081.4
60°	10040.4	10190.7	11050.7	12448.6	14358.9	16017.5	16960.9	16868.5	16752.7	16149.7	15889.0
62.5°	8374.5	8548.3	9375.8	11000.0	13326.8	15563.0	17399.1	17661.6	17601.9	16904.8	16571.6
65°	6431.6	6551.1	7375.0	9126.0	11720.7	14587.1	17449.8	18203.0	18213.9	17478.8	16928.3
67.5°	4282.3	4626.4	5341.6	6848.1	9569.6	12991.8	17004.3	18291.8	18396.8	17676.1	16749.0
70°	2089.6	2542.2	3243.0	4450.7	6848.1	10545.6	15840.1	17563.9	17797.4	17100.3	15680.7
72.5°	867.3	1014.0	1396.1	2196.4	3931.0	7116.1	13500.6	15590.2	16022.9	15152.0	13183.8
75°	584.9	633.7	798.5	1126.3	1790.8	3509.1	9736.2	11624.7	12321.9	11443.7	9354.1
77.5°	450.9	481.6	581.2	787.7	1064.7	1327.2	5211.2	7005.6	7366.0	6819.1	4867.2
80°	354.9	378.4	434.6	574.0	755.1	709.8	1776.3	3174.2	3382.4	2837.4	1564.5
82.5°	307.8	316.9	311.4	389.3	501.6	414.7	583.0	1171.5	1292.8	937.9	510.6
85°	222.7	248.1	258.9	240.8	266.2	210.0	239.0	414.7	456.3	407.4	287.9
87.5°	90.5	134.0	164.8	155.7	97.8	59.8	74.2	121.3	139.4	152.1	94.2
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°	3822.4	3822.4	3822.4	3822.4	3822.4	3822.4	3822.4	3822.4	3822.4	3822.4	3822.4
2.5°	3826.0	3838.7	3847.8	3858.6	3865.9	3876.7	3898.5	3911.1	3912.9	3922.0	3920.2
5°	3860.4	3878.5	3898.5	3927.4	3960.0	3987.2	4028.8	4057.8	4068.7	4077.7	4075.9
7.5°	3934.7	3960.0	3996.2	4046.9	4094.0	4130.2	4180.9	4215.3	4249.7	4262.4	4264.2
10°	4045.1	4081.3	4133.8	4202.7	4253.4	4300.4	4352.9	4381.9	4416.3	4430.8	4438.0
12.5°	4182.7	4220.8	4289.6	4385.5	4432.6	4465.2	4483.3	4476.1	4483.3	4496.0	4499.6
15°	4340.3	4381.9	4459.8	4563.0	4595.6	4566.6	4526.8	4490.6	4485.1	4488.7	4501.4
17.5°	4526.8	4557.5	4648.1	4735.0	4711.5	4592.0	4505.0	4447.1	4418.1	4409.1	4421.7
20°	4787.5	4787.5	4861.7	4916.1	4758.5	4555.7	4419.9	4325.8	4266.0	4240.7	4235.2
22.5°	5104.4	5075.4	5122.5	5084.5	4749.5	4454.3	4266.0	4103.1	4012.5	3976.3	3970.9
25°	5506.4	5472.0	5459.3	5223.9	4684.3	4293.2	3987.2	3789.8	3710.1	3690.2	3693.8
27.5°	6112.9	6026.0	5861.3	5299.9	4564.8	4039.7	3661.2	3478.4	3433.1	3434.9	3440.3
30°	6920.5	6746.7	6342.9	5312.6	4369.2	3681.2	3328.1	3197.7	3176.0	3185.0	3215.8
32.5°	7668.3	7503.6	6835.4	5254.7	4068.7	3329.9	3029.3	2942.4	2909.8	2920.7	2935.2
35°	8255.0	8209.7	7291.7	5173.2	3699.3	3000.3	2761.3	2687.1	2623.7	2609.2	2620.1
37.5°	8809.1	8791.0	7633.9	5059.1	3333.5	2766.8	2545.9	2448.1	2355.7	2305.0	2306.8
40°	9417.5	9399.4	7858.5	4883.5	3009.4	2564.0	2352.1	2223.5	2109.5	2017.1	2026.2
42.5°	10101.9	9995.1	7965.3	4631.8	2734.2	2391.9	2194.6	2020.7	1870.5	1785.4	1790.8
45°	10849.8	10608.9	7963.5	4311.3	2502.4	2234.4	2026.2	1779.9	1640.5	1560.8	1557.2
47.5°	11642.8	11195.6	7865.7	3956.4	2277.9	2060.6	1765.4	1577.1	1484.8	1435.9	1425.0
50°	12461.3	11744.2	7699.1	3549.0	2047.9	1863.2	1602.5	1473.9	1403.3	1358.0	1341.7
52.5°	13230.8	12242.2	7498.1	3087.3	1814.3	1671.3	1530.0	1430.5	1356.2	1305.5	1283.8
55°	13946.1	12671.3	7213.9	2614.7	1624.2	1542.7	1495.6	1412.4	1327.2	1267.5	1244.0
57.5°	14581.6	12950.2	6723.2	2171.0	1488.4	1454.0	1459.4	1381.6	1283.8	1233.1	1200.5
60°	15110.3	13154.8	5997.1	1760.0	1377.9	1367.1	1403.3	1323.6	1209.6	1151.6	1126.3
62.5°	15427.2	13151.2	5106.2	1441.3	1283.8	1287.4	1329.1	1251.2	1135.3	1081.0	1064.7
65°	15400.1	12828.9	4128.4	1233.1	1193.3	1196.9	1251.2	1171.5	1073.7	1041.2	1039.3
67.5°	14855.0	12043.0	3166.9	1097.3	1093.7	1110.0	1173.3	1117.2	1035.7	1032.1	1037.5
70°	13379.3	10411.6	2281.5	988.6	990.5	1014.0	1097.3	1082.8	1015.8	1023.0	1021.2
72.5°	10728.4	7938.1	1531.9	874.6	876.4	914.4	1024.9	1055.6	995.9	1091.9	1106.3
75°	7145.0	4950.5	985.0	753.3	755.1	804.0	961.5	1003.1	941.6	1088.2	1097.3
77.5°	3433.1	2225.4	713.4	633.7	633.7	679.0	831.1	898.1	802.1	845.6	775.0
80°	1186.0	836.5	561.3	510.6	499.8	530.5	700.7	778.6	691.7	637.4	597.5
82.5°	467.2	434.6	450.9	396.5	360.3	380.2	545.0	642.8	508.8	459.9	458.1
85°	268.0	282.5	318.7	262.6	208.2	233.6	400.2	461.7	383.9	338.6	345.8
87.5°	72.4	99.6	146.7	135.8	94.2	99.6	190.1	255.3	220.9	170.2	175.6
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)