

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: P968730

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

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P968730  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-5)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
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: -

**Summary**

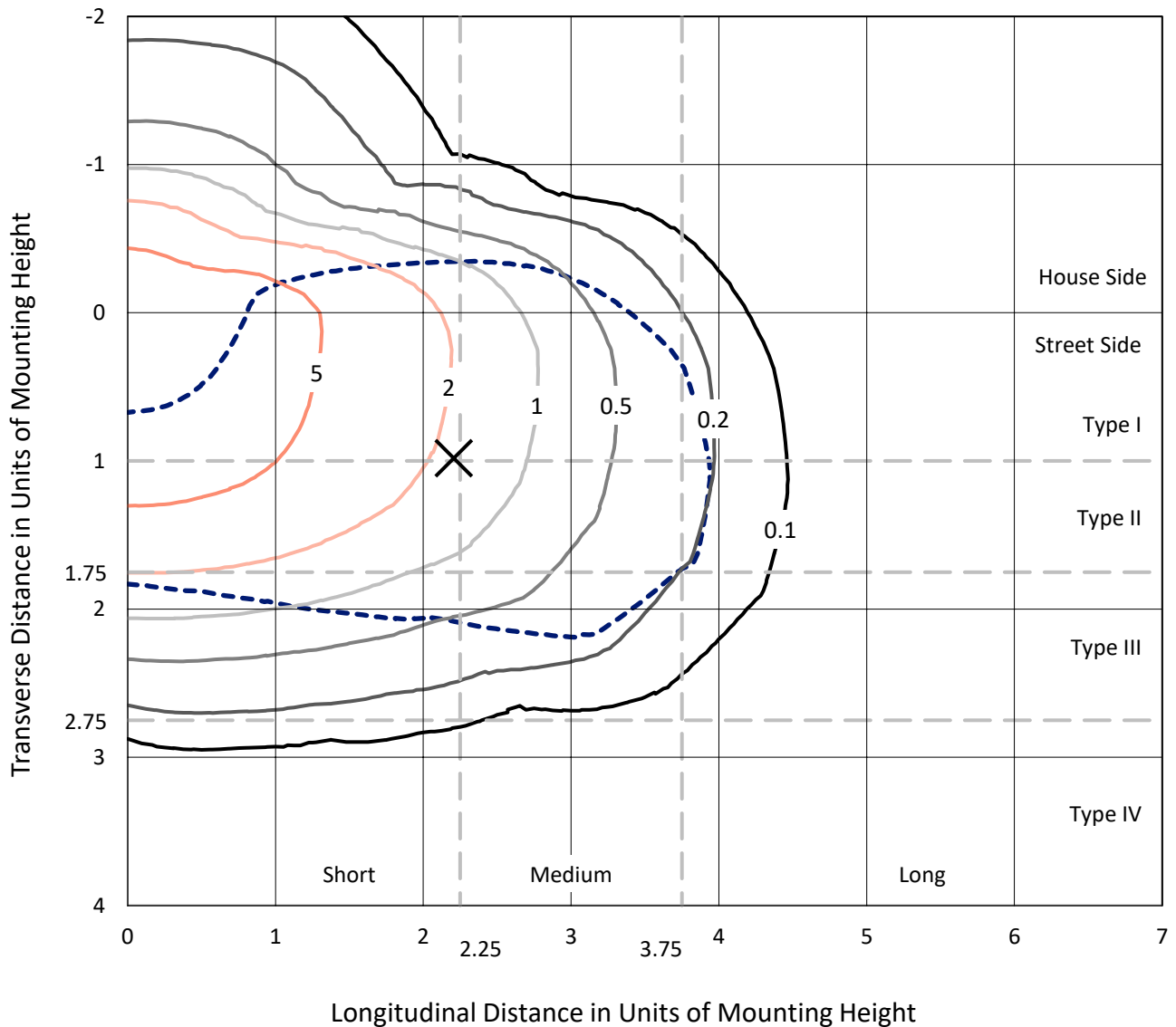
Lumens per Lamp: N/A  
Luminaire Lumens: 35990.8 lumens  
Efficiency: N/A  
Efficacy: 144.3 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G4  
  
Input Watts (W): 249.5  
Input Voltage (V): NR  
Input Current (Ain): 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

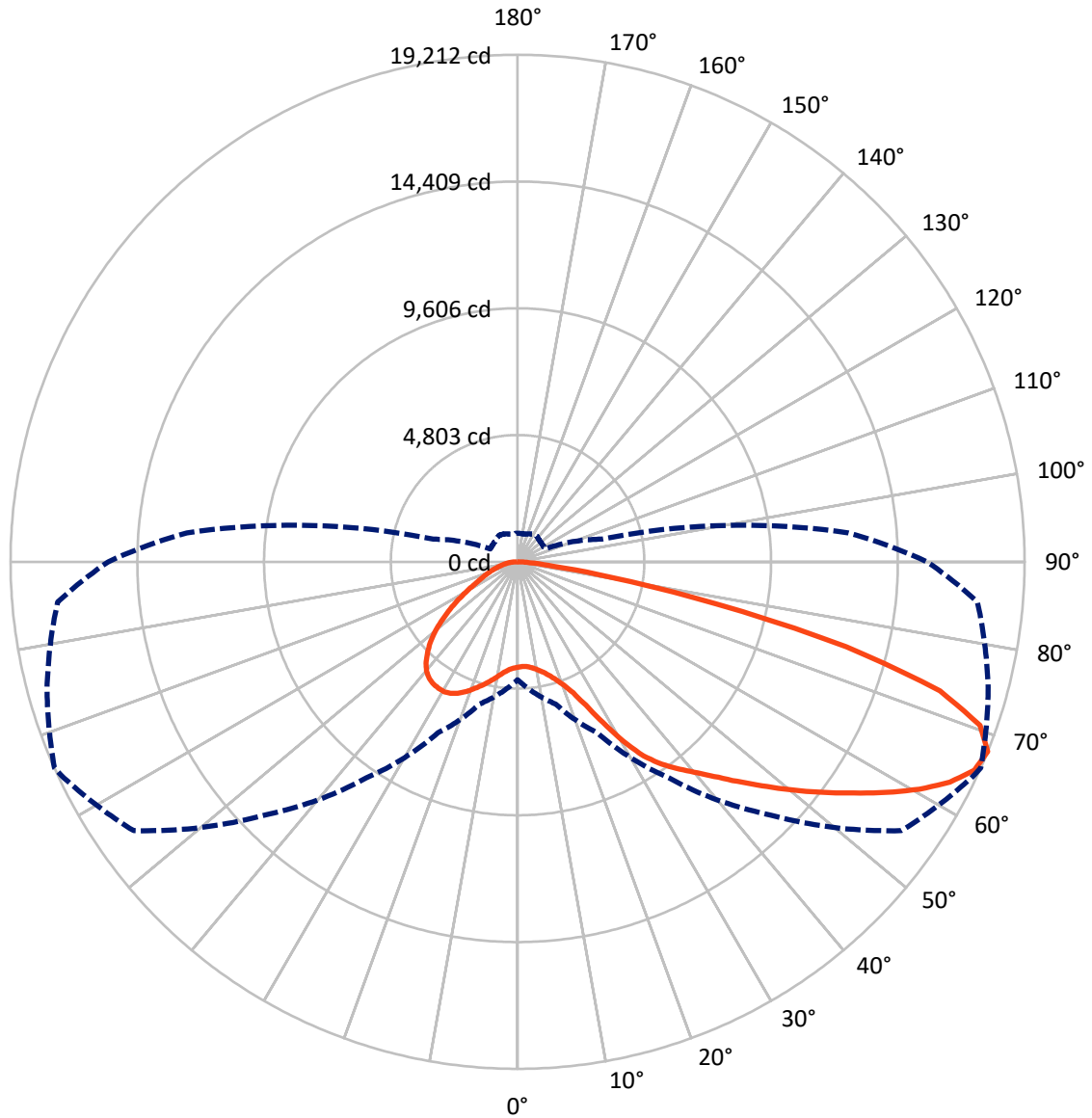
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.1 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	8949.0	0.0	8949.0
	% Fixture	24.9	0.0	24.9
<b>Street Side</b>	Lumens	27041.8	0.0	27041.8
	% Fixture	75.1	0.0	75.1
<b>Total</b>	Lumens	35990.8	0.0	35990.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	395.8	1.1
10°-20°	1307.6	3.6
20°-30°	2520.3	7.0
30°-40°	4419.0	12.3
40°-50°	6569.7	18.3
50°-60°	8327.7	23.1
60°-70°	8148.5	22.6
70°-80°	3886.9	10.8
80°-90°	415.4	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°	35990.8	100.0
0°-180°	35990.8	100.0

**Coefficient of Utilization**

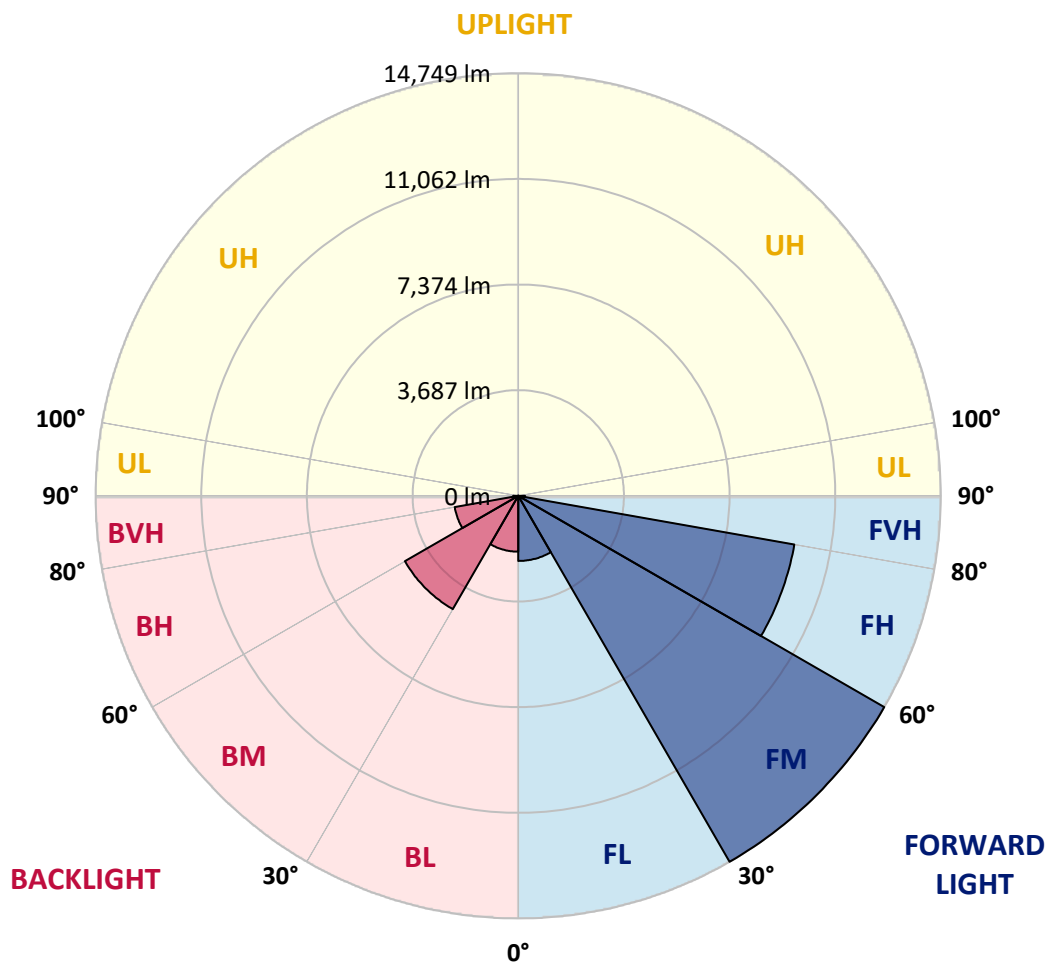


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2274.3	6.3			
FM (30°-60°)	14748.7	41.0			
FH (60°-80°)	9783.3	27.2			G4/12000
FVH (80°-90°)	235.5	0.7			G3/500
BL (0°-30°)	1949.4	5.4	B3/2500		
BM (30°-60°)	4567.7	12.7	B3/5000		
BH (60°-80°)	2252.0	6.3	B3/2500		G3/2500
BVH (80°-90°)	179.9	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°	3991.9	3991.9	3991.9	3991.9	3991.9	3991.9	3991.9	3991.9	3991.9	3991.9	3991.9
2.5°	3950.2	3972.9	3967.3	3957.8	3955.9	3959.7	3965.4	3971.1	3969.2	3978.6	3993.7
5°	3938.9	3961.6	3959.7	3959.7	3967.3	3982.4	3991.9	4001.3	3991.9	4003.2	4024.0
7.5°	3946.5	3963.5	3971.1	3978.6	3997.5	4025.9	4048.5	4069.4	4058.1	4071.3	4097.7
10°	4042.9	4056.1	4063.7	4063.7	4076.9	4109.1	4131.8	4169.6	4160.2	4181.0	4215.0
12.5°	4218.8	4232.0	4232.0	4224.4	4233.9	4254.7	4262.3	4303.9	4286.9	4320.9	4354.9
15°	4434.4	4460.8	4440.0	4426.8	4430.6	4451.4	4449.5	4481.6	4464.6	4493.0	4523.2
17.5°	4672.6	4706.7	4672.6	4670.7	4663.1	4685.9	4687.7	4716.1	4685.9	4706.7	4727.4
20°	4954.3	5001.7	4973.3	4982.7	4965.7	4975.1	4984.6	5026.2	4978.9	4994.1	4988.4
22.5°	5351.4	5408.2	5378.0	5413.8	5402.6	5395.0	5393.0	5466.8	5393.0	5398.8	5343.9
25°	5930.1	5998.2	5945.2	5994.4	5994.4	6019.0	6047.4	6141.9	6019.0	5983.0	5841.3
27.5°	6784.9	6852.9	6748.9	6779.1	6769.7	6830.2	6800.0	7034.5	6902.0	6843.4	6558.0
30°	7813.6	7934.5	7737.9	7730.3	7720.9	7817.3	7860.8	8015.9	7881.6	7823.0	7478.8
32.5°	8925.4	9052.1	8817.7	8749.6	8713.6	8772.3	8736.3	8861.1	8768.5	8677.8	8252.3
35°	10101.6	10226.4	10003.3	9871.0	9727.2	9604.2	9475.7	9507.8	9420.9	9282.8	8842.3
37.5°	11213.5	11442.3	11205.9	11064.2	10799.4	10559.2	10200.0	10050.5	9969.3	9842.6	9398.1
40°	12346.2	12476.7	12297.0	12176.0	11888.6	11512.3	10937.5	10621.7	10512.0	10389.1	10012.7
42.5°	13180.2	13304.9	13208.5	13125.3	12900.2	12463.5	11720.3	11325.1	11166.2	11028.2	10708.6
45°	13842.0	13934.7	13874.1	13904.3	13808.0	13384.3	12531.5	12079.6	11915.1	11746.8	11495.3
47.5°	14108.6	14206.9	14303.4	14483.0	14647.6	14335.5	13403.3	12896.4	12722.5	12550.4	12302.7
50°	14078.4	14178.5	14458.4	14840.4	15351.0	15247.0	14322.3	13766.4	13605.6	13408.9	13180.2
52.5°	13836.3	13949.7	14309.0	14944.4	15757.5	15929.6	15258.4	14664.6	14513.3	14278.8	14050.0
55°	13201.0	13269.0	13808.0	14708.0	15854.0	16406.1	16175.4	15621.4	15470.1	15142.9	14893.4
57.5°	12022.8	12121.1	12906.0	14070.8	15611.9	16729.5	16981.0	16627.3	16481.8	16010.9	15749.9
60°	10485.4	10642.5	11540.7	13000.5	14995.4	16727.6	17712.8	17616.4	17495.3	16865.7	16593.3
62.5°	8745.8	8927.3	9791.5	11487.7	13917.7	16253.0	18170.4	18444.6	18382.2	17654.2	17306.2
65°	6716.7	6841.6	7702.0	9530.6	12240.3	15233.8	18223.4	19010.1	19021.3	18253.6	17678.8
67.5°	4472.2	4831.4	5578.4	7151.7	9993.9	13567.8	17758.2	19102.7	19212.4	18459.7	17491.5
70°	2182.2	2655.0	3386.7	4648.1	7151.7	11013.1	16542.3	18342.5	18586.4	17858.4	16375.9
72.5°	905.8	1058.9	1458.0	2293.7	4105.3	7431.6	14099.2	16281.3	16733.3	15823.7	13768.2
75°	610.8	661.8	833.9	1176.2	1870.2	3664.7	10167.8	12140.1	12868.2	11951.0	9768.8
77.5°	470.9	503.0	607.0	822.6	1111.9	1386.1	5442.2	7316.2	7692.5	7121.4	5083.0
80°	370.6	395.2	453.9	599.4	788.5	741.3	1855.0	3314.8	3532.4	2963.2	1633.8
82.5°	321.4	331.0	325.2	406.5	523.8	433.1	608.8	1223.4	1350.1	979.5	533.3
85°	232.6	259.0	270.4	251.5	278.0	219.4	249.6	433.1	476.5	425.5	300.6
87.5°	94.5	139.9	172.1	162.7	102.1	62.4	77.5	126.7	145.7	158.9	98.3
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°	3991.9	3991.9	3991.9	3991.9	3991.9	3991.9	3991.9	3991.9	3991.9	3991.9	3991.9
2.5°	3995.7	4008.9	4018.3	4029.7	4037.3	4048.5	4071.3	4084.5	4086.4	4095.9	4094.0
5°	4031.5	4050.5	4071.3	4101.5	4135.6	4164.0	4207.4	4237.7	4249.0	4258.5	4256.6
7.5°	4109.1	4135.6	4173.4	4226.4	4275.5	4313.3	4366.3	4402.2	4438.1	4451.4	4453.2
10°	4224.4	4262.3	4317.1	4388.9	4441.9	4491.0	4545.9	4576.2	4612.1	4627.3	4634.7
12.5°	4368.1	4407.9	4479.8	4579.9	4629.1	4663.1	4682.1	4674.5	4682.1	4695.3	4699.1
15°	4532.7	4576.2	4657.5	4765.2	4799.4	4769.0	4727.4	4689.6	4683.9	4687.7	4701.0
17.5°	4727.4	4759.6	4854.2	4944.9	4920.3	4795.6	4704.8	4644.3	4614.0	4604.5	4617.7
20°	4999.7	4999.7	5077.2	5134.0	4969.5	4757.7	4615.9	4517.6	4455.2	4428.7	4423.0
22.5°	5330.7	5300.4	5349.6	5309.9	4960.1	4651.9	4455.2	4284.9	4190.4	4152.6	4146.9
25°	5750.5	5714.6	5701.3	5455.5	4891.9	4483.6	4164.0	3957.8	3874.6	3853.8	3857.6
27.5°	6383.9	6293.2	6121.1	5534.9	4767.2	4218.8	3823.6	3632.6	3585.3	3587.2	3592.8
30°	7227.3	7045.7	6624.1	5548.1	4562.9	3844.4	3475.6	3339.4	3316.8	3326.2	3358.4
32.5°	8008.3	7836.2	7138.4	5487.6	4249.0	3477.5	3163.6	3072.8	3038.8	3050.2	3065.3
35°	8621.0	8573.7	7614.9	5402.6	3863.2	3133.3	2883.7	2806.2	2740.0	2724.9	2736.2
37.5°	9199.6	9180.7	7972.3	5283.4	3481.3	2889.4	2658.7	2556.6	2460.2	2407.2	2409.1
40°	9835.0	9816.1	8206.9	5100.0	3142.9	2677.6	2456.4	2322.1	2203.0	2106.6	2116.0
42.5°	10549.8	10438.2	8318.4	4837.1	2855.3	2498.0	2291.9	2110.4	1953.3	1864.5	1870.2
45°	11330.8	11079.2	8316.5	4502.4	2613.3	2333.5	2116.0	1858.8	1713.2	1630.1	1626.3
47.5°	12159.0	11692.0	8214.5	4131.8	2378.8	2151.9	1843.7	1647.1	1550.6	1499.6	1488.2
50°	13013.7	12264.9	8040.4	3706.3	2138.7	1945.9	1673.5	1539.2	1465.5	1418.2	1401.2
52.5°	13817.4	12784.9	7830.6	3224.1	1894.7	1745.4	1597.9	1493.8	1416.3	1363.4	1340.7
55°	14564.3	13233.1	7533.6	2730.6	1696.2	1611.1	1562.0	1475.0	1386.1	1323.7	1299.1
57.5°	15228.0	13524.3	7021.2	2267.3	1554.4	1518.4	1524.2	1442.8	1340.7	1287.7	1253.7
60°	15780.2	13738.0	6263.0	1838.0	1439.0	1427.7	1465.5	1382.3	1263.2	1202.6	1176.2
62.5°	16111.2	13734.2	5332.6	1505.2	1340.7	1344.5	1388.0	1306.7	1185.6	1128.9	1111.9
65°	16082.8	13397.6	4311.5	1287.7	1246.2	1250.0	1306.7	1223.4	1121.4	1087.3	1085.4
67.5°	15513.6	12577.0	3307.4	1145.9	1142.2	1159.2	1225.4	1166.8	1081.7	1077.9	1083.5
70°	13972.5	10873.1	2382.6	1032.5	1034.3	1058.9	1145.9	1130.8	1060.9	1068.4	1066.5
72.5°	11204.1	8290.1	1599.8	913.4	915.2	955.0	1070.3	1102.5	1040.1	1140.2	1155.4
75°	7461.8	5169.9	1028.7	786.7	788.5	839.6	1004.1	1047.7	983.3	1136.5	1145.9
77.5°	3585.3	2324.0	745.1	661.8	661.8	709.1	868.0	937.9	837.7	883.0	809.3
80°	1238.6	873.6	586.2	533.3	521.9	554.0	731.8	813.1	722.3	665.6	624.0
82.5°	487.9	453.9	470.9	414.1	376.3	397.1	569.2	671.3	531.4	480.3	478.4
85°	279.8	295.0	332.8	274.2	217.5	244.0	417.9	482.2	400.9	353.6	361.2
87.5°	75.6	104.0	153.1	141.9	98.3	104.0	198.5	266.6	230.7	177.7	183.5
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)