

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: P970792

Luminaire Tested: **NAV-SB6C-722-U-SL4**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P970792
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-9)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB6C-722-U-SL4
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 2200K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 38117.7 lumens
Efficiency: N/A
Efficacy: 126.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B4 - U0 - G5

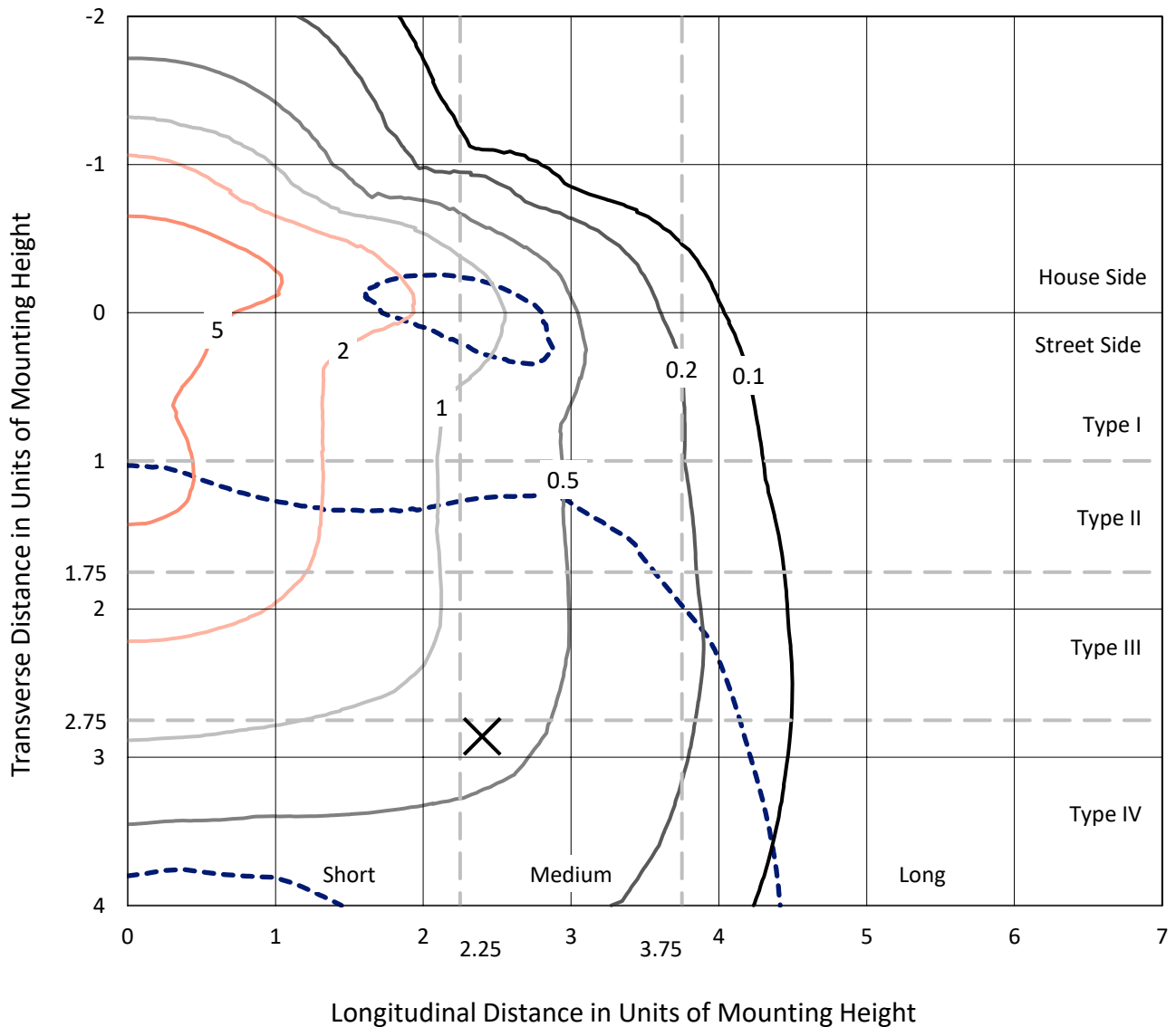
Input Watts (W): 300.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

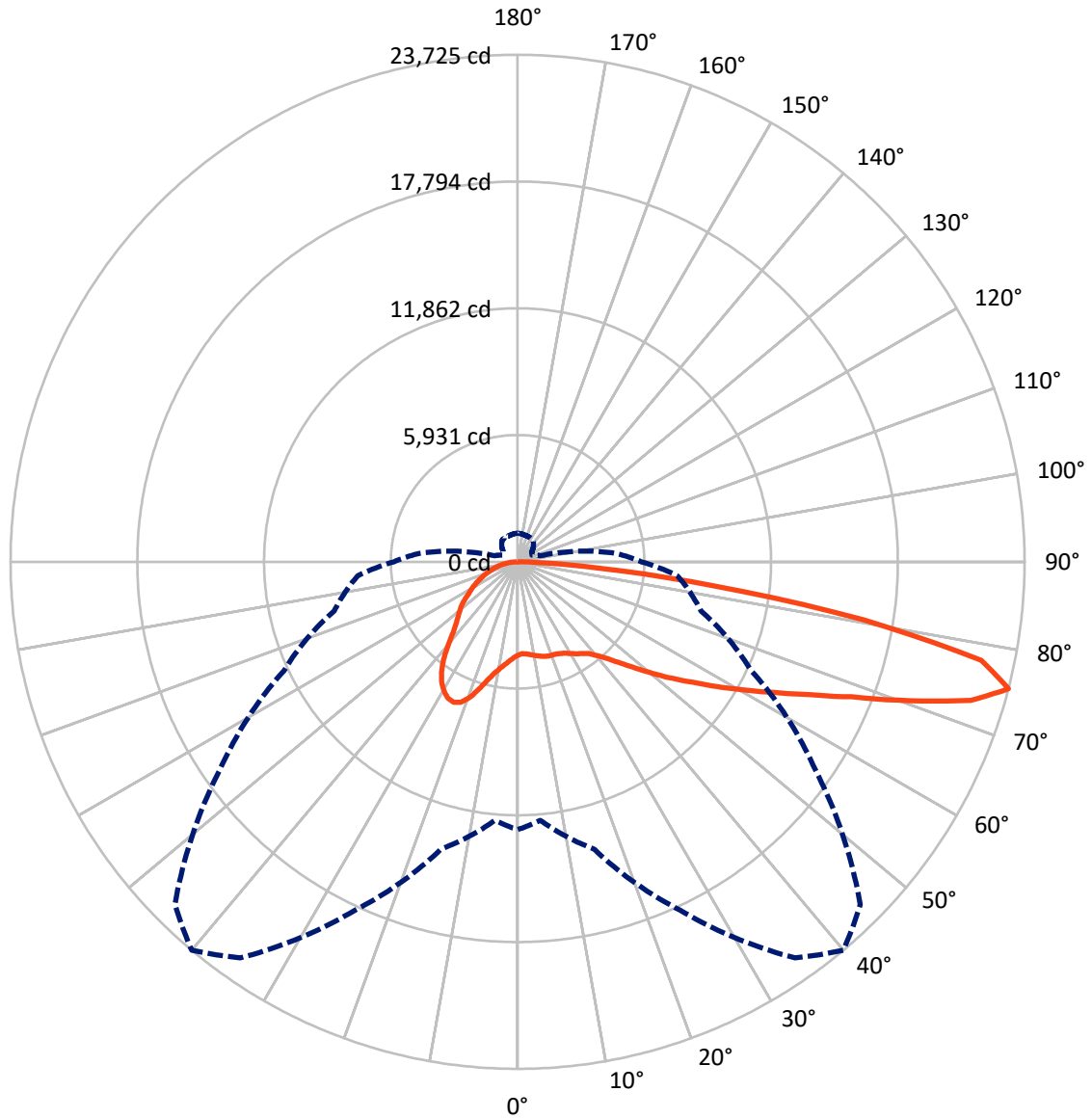
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11810.1	0.0	11810.1
	% Fixture	31.0	0.0	31.0
Street Side	Lumens	26307.6	0.0	26307.6
	% Fixture	69.0	0.0	69.0
Total	Lumens	38117.7	0.0	38117.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	435.1	1.1
10°-20°	1460.8	3.8
20°-30°	2667.3	7.0
30°-40°	3783.0	9.9
40°-50°	5108.2	13.4
50°-60°	6871.8	18.0
60°-70°	8721.9	22.9
70°-80°	7915.7	20.8
80°-90°	1153.9	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°	38117.7	100.0
0°-180°	38117.7	100.0

Coefficient of Utilization

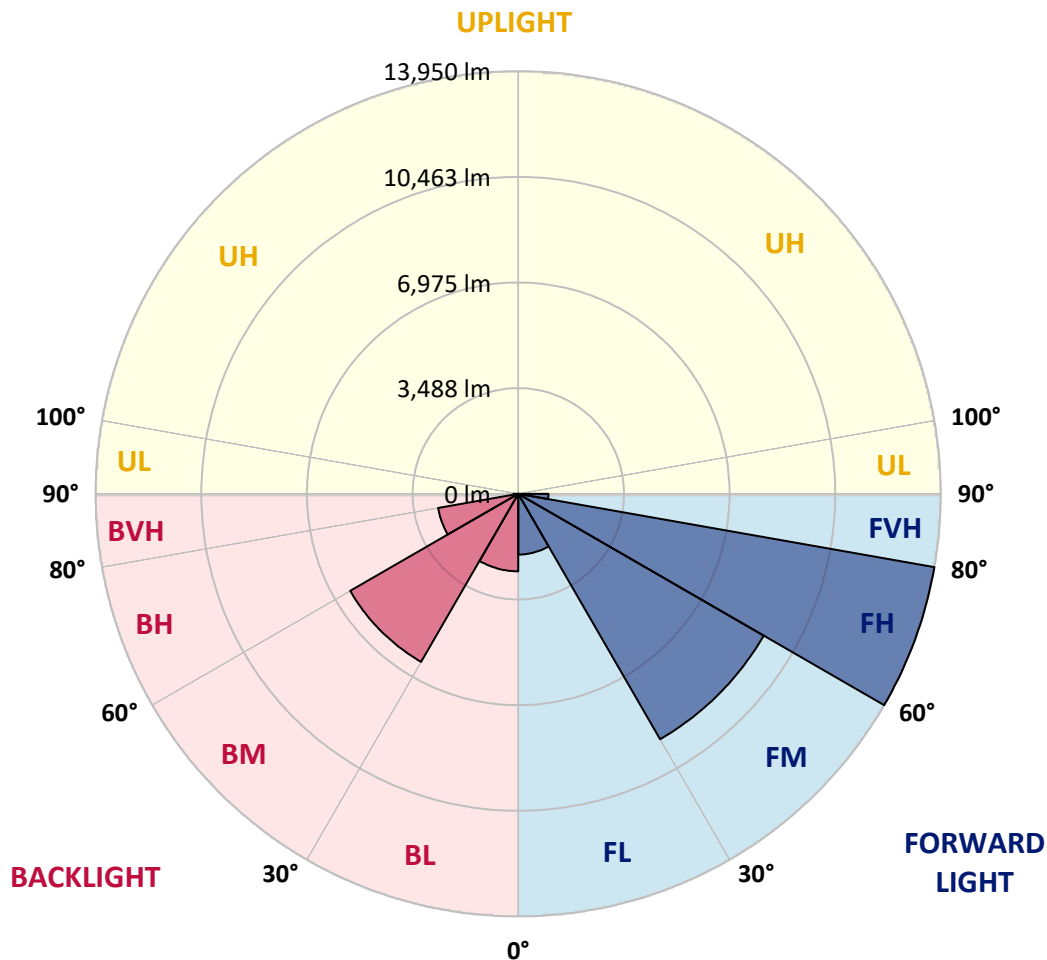


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2005.0	5.3			
FM (30°-60°)	9357.0	24.5			
FH (60°-80°)	13950.5	36.6			G5
FVH (80°-90°)	995.0	2.6			G5
BL (0°-30°)	2558.2	6.7	B4/5000		
BM (30°-60°)	6405.9	16.8	B4/8500		
BH (60°-80°)	2687.2	7.0	B4/5000		G4/5000
BVH (80°-90°)	158.9	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



REPORT NUMBER: P970792
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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	4358.8	4358.8	4358.8	4358.8	4358.8	4358.8	4358.8	4358.8	4358.8	4358.8	4358.8
2.5°	4292.1	4316.4	4310.3	4302.2	4302.2	4304.2	4302.2	4316.4	4330.5	4344.7	4366.9
5°	4336.6	4360.9	4348.7	4338.6	4330.5	4328.5	4322.4	4320.4	4328.5	4346.7	4377.0
7.5°	4423.5	4447.8	4429.5	4411.4	4395.2	4387.1	4379.0	4366.9	4360.9	4370.9	4413.4
10°	4520.6	4544.8	4522.6	4490.2	4464.0	4453.8	4445.7	4433.6	4425.5	4431.6	4478.1
12.5°	4617.6	4641.8	4611.5	4567.1	4532.7	4526.6	4516.5	4512.5	4510.4	4508.5	4554.9
15°	4708.5	4728.7	4690.4	4637.8	4601.4	4591.3	4581.2	4587.3	4597.3	4609.5	4662.1
17.5°	4779.4	4799.6	4743.0	4674.2	4639.9	4635.8	4629.7	4649.9	4678.2	4708.5	4773.2
20°	4844.0	4864.2	4791.5	4698.5	4658.0	4658.0	4660.1	4702.5	4743.0	4787.4	4876.3
22.5°	4935.0	4951.2	4862.2	4734.9	4676.3	4680.3	4696.4	4738.9	4789.4	4850.1	4973.4
25°	5070.5	5082.6	4973.4	4803.6	4736.8	4749.0	4763.2	4783.4	4831.8	4902.7	5068.4
27.5°	5288.8	5298.9	5155.3	4924.9	4823.8	4844.0	4864.2	4850.1	4872.3	4933.0	5145.3
30°	5596.1	5602.1	5420.2	5115.0	4971.4	4981.5	4985.5	4926.9	4884.4	4933.0	5199.8
32.5°	5960.0	5958.0	5741.6	5345.4	5139.1	5129.1	5094.8	4979.4	4880.4	4922.9	5248.4
35°	6524.0	6501.8	6222.9	5668.9	5329.3	5266.6	5185.7	5038.1	4900.6	4912.7	5290.8
37.5°	7458.1	7389.3	7003.2	6198.6	5612.3	5452.6	5333.3	5133.1	4945.1	4908.7	5341.4
40°	8511.4	8424.5	7999.9	6924.4	6036.8	5780.1	5588.0	5268.6	5017.9	4926.9	5416.2
42.5°	9760.9	9637.5	9180.6	7779.5	6574.6	6202.6	5913.5	5440.4	5125.0	4985.5	5517.3
45°	11295.3	11131.5	10484.6	8743.9	7251.9	6756.6	6370.4	5701.3	5288.8	5098.8	5668.9
47.5°	12845.9	12886.4	11966.5	9847.8	8064.6	7439.9	6942.5	6093.4	5527.3	5280.7	5913.5
50°	14493.6	14522.0	13440.3	11070.9	8986.5	8212.2	7585.4	6532.1	5858.9	5539.5	6279.5
52.5°	15779.5	15783.5	14778.8	12350.6	9946.8	9061.3	8278.9	7033.6	6243.1	5883.2	6766.6
55°	16584.1	16573.9	15716.7	13561.7	11050.6	9952.9	9047.2	7603.7	6712.1	6287.6	7379.3
57.5°	17168.3	17138.0	16363.7	14602.9	12227.3	11006.2	9916.5	8250.6	7266.0	6768.7	8186.0
60°	17390.8	17372.5	16802.4	15502.5	13464.6	12170.7	10919.2	8974.4	7894.8	7336.7	9223.1
62.5°	17475.6	17510.1	17233.0	16373.9	14788.8	13460.5	12021.1	9839.7	8602.4	7979.7	10316.8
65°	17774.9	17837.6	17781.0	17514.1	16284.9	14970.7	13482.7	10868.7	9374.6	8669.1	11459.1
67.5°	18367.3	18429.9	18454.2	18878.8	18112.5	16852.9	15306.4	12150.5	10278.4	9384.8	12318.2
70°	18353.1	18334.9	18763.5	19964.4	20401.1	19459.0	17764.8	13727.4	11356.0	9979.2	12427.5
72.5°	16705.4	16559.8	17572.7	19952.2	22305.5	22180.2	20767.0	15761.2	12286.0	10052.0	10783.8
75°	12532.6	12144.4	13933.6	17981.1	22623.0	23724.8	22675.6	17022.8	12065.6	8881.4	7504.6
77.5°	5359.5	4969.4	7078.0	13311.0	20247.4	22178.1	20924.8	14851.5	9631.4	5873.0	3685.6
80°	1403.0	1401.1	2139.0	6034.8	13769.8	16377.9	14368.3	9591.0	5503.1	2098.6	1016.9
82.5°	580.3	566.1	786.5	2347.2	6728.3	9190.7	7500.5	4277.9	1987.4	568.1	337.6
85°	216.3	214.3	382.1	810.7	2373.5	3790.8	2743.4	1093.8	495.3	277.0	151.6
87.5°	60.7	58.6	82.9	281.1	578.2	877.4	469.0	179.9	139.5	109.2	44.5
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°	4358.8	4358.8	4358.8	4358.8	4358.8	4358.8	4358.8	4358.8	4358.8	4358.8	4358.8
2.5°	4373.0	4383.1	4401.2	4415.4	4433.6	4453.8	4482.1	4500.4	4518.5	4530.7	4522.6
5°	4391.2	4413.4	4459.9	4506.4	4560.9	4611.5	4670.1	4712.6	4747.0	4757.1	4761.1
7.5°	4431.6	4468.0	4546.8	4625.7	4712.6	4795.5	4880.4	4953.2	5011.8	5034.1	5036.1
10°	4502.3	4550.9	4662.1	4773.2	4888.5	5015.8	5125.0	5230.2	5313.1	5347.4	5349.5
12.5°	4591.3	4652.0	4797.5	4951.2	5110.9	5286.7	5428.3	5557.7	5660.8	5707.3	5707.3
15°	4706.6	4785.4	4971.4	5177.6	5412.1	5656.8	5836.7	5980.3	6095.5	6152.0	6148.1
17.5°	4831.8	4937.0	5171.5	5482.9	5818.5	6140.0	6350.2	6455.3	6574.6	6629.2	6627.1
20°	4953.2	5082.6	5418.2	5871.1	6317.9	6659.5	6829.4	6857.7	6865.8	6871.8	6888.0
22.5°	5078.6	5252.4	5727.5	6360.3	6839.4	7076.0	7100.3	6978.9	6809.1	6730.3	6752.5
25°	5216.0	5446.4	6131.9	6900.1	7288.3	7316.6	7130.6	6835.4	6514.0	6366.4	6388.6
27.5°	5349.5	5670.9	6617.1	7415.7	7611.8	7363.1	6962.8	6544.3	6156.2	6000.5	6018.6
30°	5482.9	5927.7	7152.9	7866.5	7759.4	7247.9	6698.0	6230.9	5840.8	5677.0	5695.2
32.5°	5618.3	6226.9	7769.4	8192.0	7733.0	7003.2	6368.4	5879.1	5535.4	5363.6	5385.9
35°	5772.0	6594.8	8353.8	8369.8	7557.1	6643.3	5933.7	5458.6	5159.4	5021.9	5052.2
37.5°	5972.2	7061.8	8869.2	8414.3	7249.8	6115.7	5394.0	4961.3	4714.6	4652.0	4696.4
40°	6220.8	7623.8	9263.4	8343.6	6794.9	5474.8	4803.6	4457.8	4318.3	4332.6	4381.1
42.5°	6544.3	8252.6	9540.5	8161.7	6162.2	4813.7	4286.0	4132.4	4199.1	4255.7	4308.3
45°	6964.8	8905.6	9712.3	7852.3	5446.4	4253.6	3980.8	4017.2	4067.7	4073.8	4114.1
47.5°	7502.6	9566.7	9825.5	7385.3	4716.6	3859.4	3786.7	3794.8	3784.6	3742.2	3774.6
50°	8173.8	10209.6	9926.6	6766.6	4096.0	3612.8	3515.7	3487.5	3348.0	3210.5	3228.6
52.5°	8938.0	10800.0	9969.0	5998.4	3612.8	3406.6	3248.8	3071.0	2810.1	2767.7	2781.8
55°	9787.1	11345.8	9859.9	5054.3	3206.4	3141.7	2903.2	2688.9	2660.6	2624.2	2630.3
57.5°	10802.0	11934.2	9637.5	4001.0	2789.9	2832.4	2599.9	2624.2	2573.7	2517.0	2506.9
60°	11911.9	12542.7	9247.3	3040.7	2359.3	2446.3	2521.1	2519.0	2504.9	2458.4	2442.3
62.5°	12910.7	12943.0	8479.1	2329.0	1981.3	2147.1	2351.2	2349.2	2337.1	2310.9	2300.7
65°	13505.0	12882.3	7197.2	1833.7	1669.9	1900.5	2120.7	2136.9	2139.0	2136.9	2136.9
67.5°	13399.9	12172.7	5438.4	1459.7	1413.2	1649.7	1892.4	1914.6	1930.7	1934.8	1938.8
70°	12211.1	10614.0	3546.1	1164.5	1184.7	1429.4	1676.0	1698.2	1712.4	1728.6	1736.7
72.5°	9518.3	7803.8	2029.8	942.1	984.6	1239.3	1461.6	1488.0	1496.1	1526.4	1538.5
75°	5800.3	4589.3	1095.7	742.0	808.7	1059.3	1249.4	1279.7	1293.9	1330.2	1334.3
77.5°	2757.7	1987.4	624.7	578.2	651.0	865.3	1055.3	1089.7	1051.2	1071.5	1055.3
80°	932.0	737.9	394.2	440.7	497.3	675.3	845.1	879.4	798.6	794.6	786.5
82.5°	325.5	299.2	250.7	293.2	321.4	483.2	638.9	683.4	594.4	592.3	564.1
85°	127.4	121.3	139.5	159.7	192.1	297.1	420.6	442.8	365.9	295.2	291.1
87.5°	26.2	28.3	34.3	36.4	58.6	103.1	151.6	186.0	147.6	125.4	115.2
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)