

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: P885264

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

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P885264
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-9)
Test Lab: INNOVATION CENTER
Issue Date: 10/7/2024
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: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 35907 lumens
Efficiency: N/A
Efficacy: 119.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B4 - U0 - G5

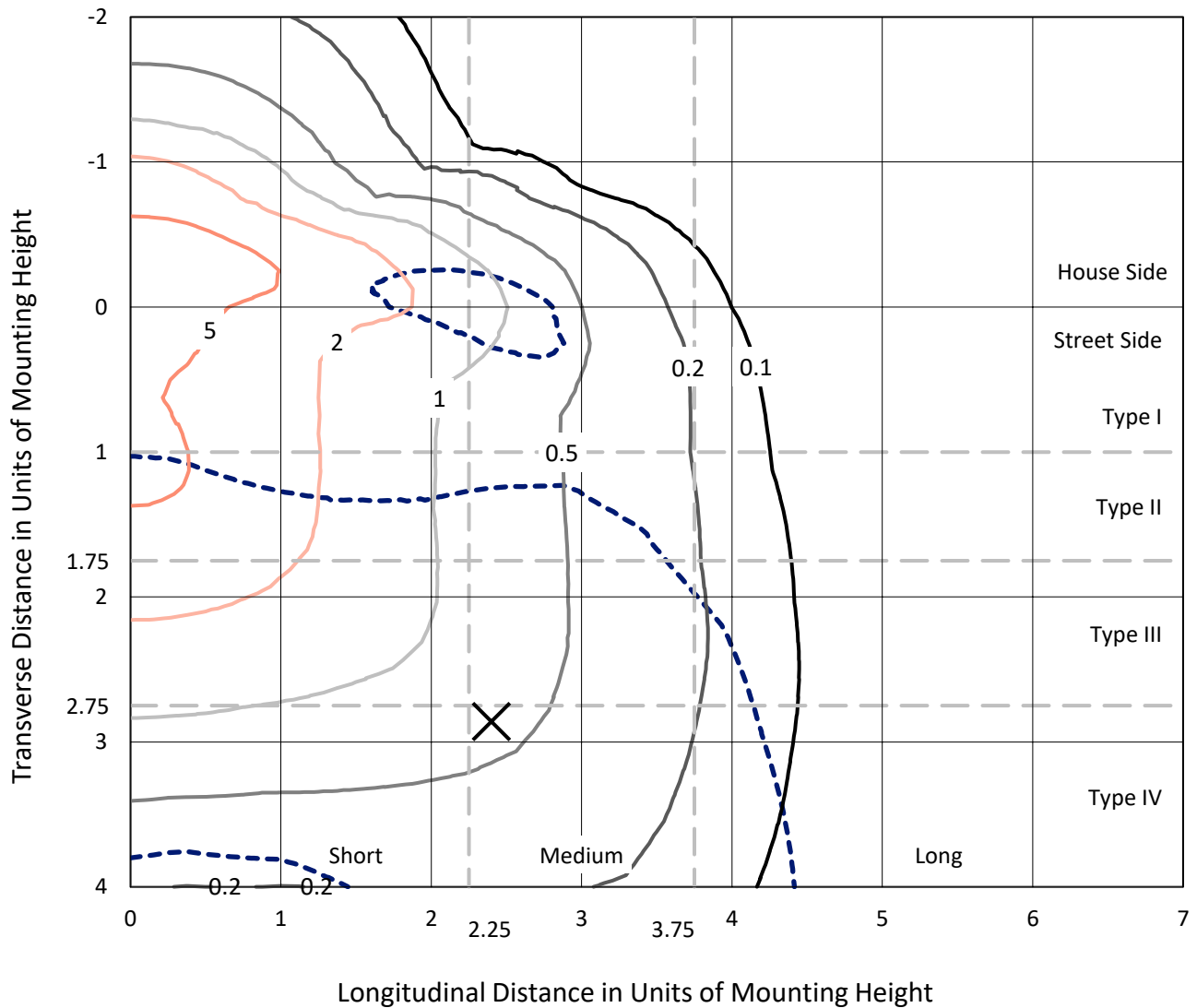
Input Watts (W): 300.9
Input Voltage (V): 120.0
Input Current (Ain): 2.518
Voltage Rise (V): NR
Power Factor: 0.997
Total Harmonic Distortion (THDi): 6.297
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

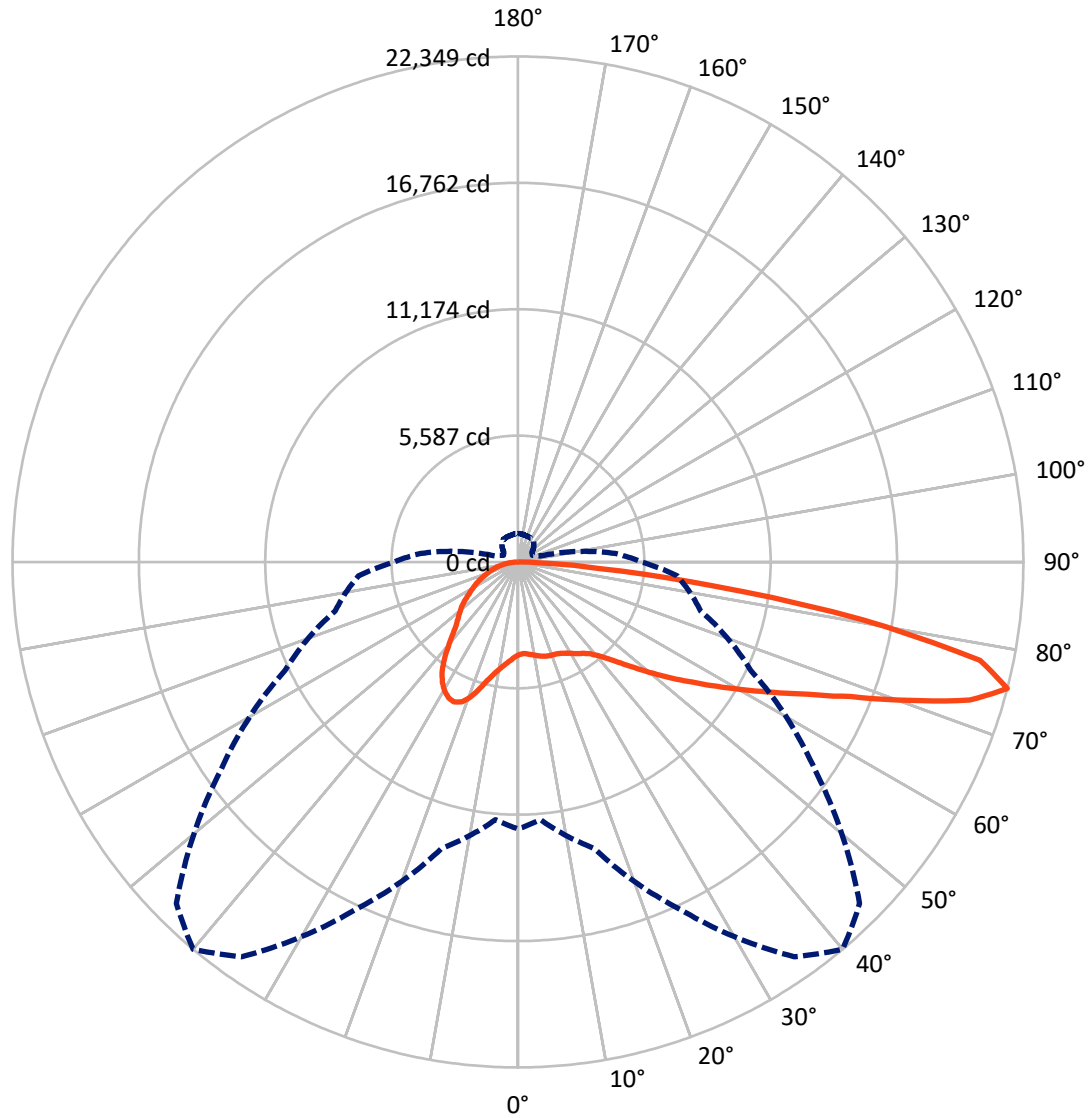
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.5 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	11125.2	0.0	11125.2
	% Fixture	31.0	0.0	31.0
Street Side	Lumens	24781.8	0.0	24781.8
	% Fixture	69.0	0.0	69.0
Total	Lumens	35907.0	0.0	35907.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	409.9	1.1
10°-20°	1376.1	3.8
20°-30°	2512.6	7.0
30°-40°	3563.6	9.9
40°-50°	4811.9	13.4
50°-60°	6473.3	18.0
60°-70°	8216.1	22.9
70°-80°	7456.6	20.8
80°-90°	1086.9	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°	35907.0	100.0
0°-180°	35907.0	100.0

Coefficient of Utilization



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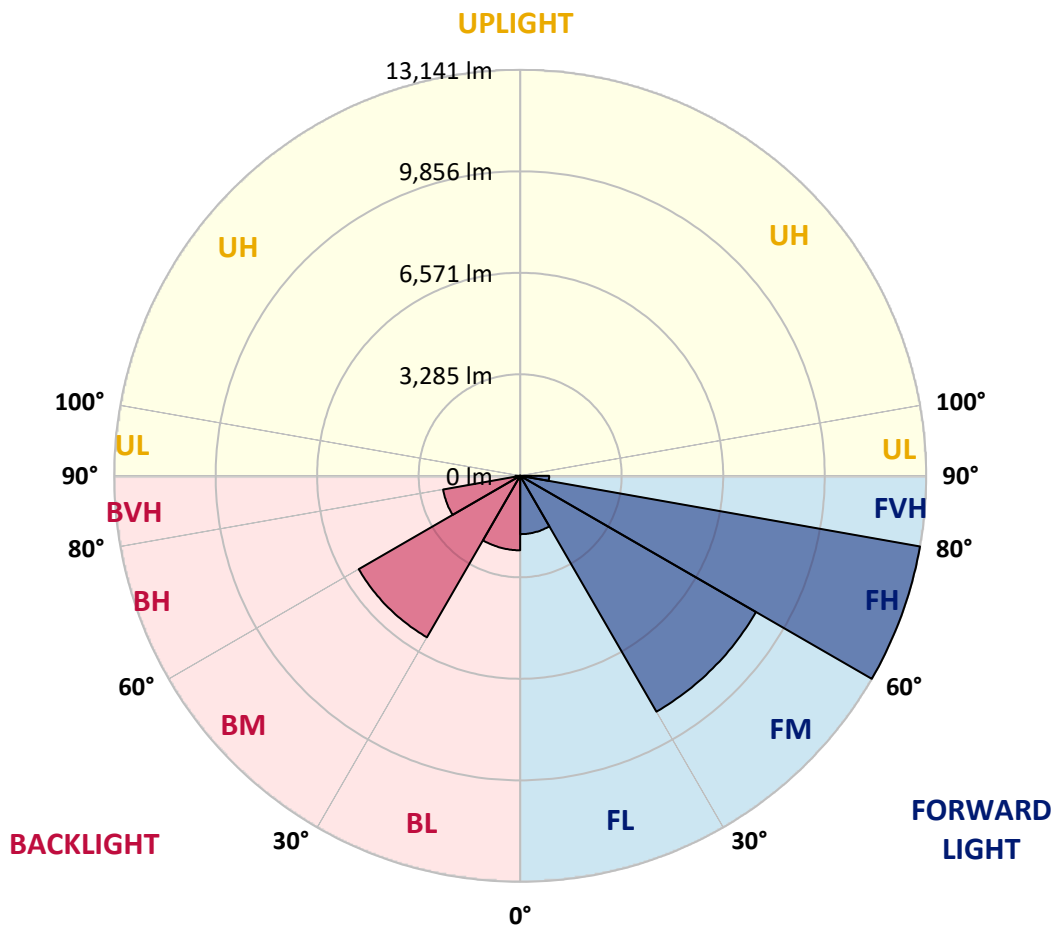
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1888.7	5.3			
FM (30°-60°)	8814.4	24.5			
FH (60°-80°)	13141.4	36.6			G5
FVH (80°-90°)	937.3	2.6			G5
BL (0°-30°)	2409.8	6.7	B3/2500		
BM (30°-60°)	6034.4	16.8	B4/8500		
BH (60°-80°)	2531.3	7.0	B4/5000		G4/5000
BVH (80°-90°)	149.6	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



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	4106.0	4106.0	4106.0	4106.0	4106.0	4106.0	4106.0	4106.0	4106.0	4106.0	4106.0
2.5°	4043.2	4066.0	4060.3	4052.7	4052.7	4054.6	4052.7	4066.0	4079.4	4092.7	4113.6
5°	4085.1	4107.9	4096.5	4087.0	4079.4	4077.4	4071.7	4069.8	4077.4	4094.6	4123.2
7.5°	4167.0	4189.8	4172.7	4155.5	4140.3	4132.7	4125.1	4113.6	4107.9	4117.4	4157.4
10°	4258.4	4281.2	4260.3	4229.8	4205.0	4195.5	4187.9	4176.5	4168.9	4174.6	4218.4
12.5°	4349.8	4372.6	4344.1	4302.2	4269.8	4264.1	4254.6	4250.8	4248.8	4246.9	4290.7
15°	4435.5	4454.5	4418.3	4368.8	4334.5	4325.0	4315.5	4321.2	4330.7	4342.2	4391.7
17.5°	4502.1	4521.2	4467.9	4403.1	4370.7	4366.9	4361.2	4380.3	4406.9	4435.5	4496.4
20°	4563.1	4582.1	4513.6	4426.0	4387.9	4387.9	4389.8	4429.8	4467.9	4509.8	4593.6
22.5°	4648.8	4664.0	4580.2	4460.2	4405.0	4408.8	4424.1	4464.1	4511.7	4568.8	4685.0
25°	4776.4	4787.8	4685.0	4525.0	4462.1	4473.6	4486.9	4505.9	4551.7	4618.3	4774.5
27.5°	4982.1	4991.6	4856.4	4639.3	4544.0	4563.1	4582.1	4568.8	4589.7	4646.9	4846.8
30°	5271.5	5277.3	5105.9	4818.3	4683.1	4692.6	4696.4	4641.2	4601.2	4646.9	4898.3
32.5°	5614.3	5612.4	5408.7	5035.4	4841.1	4831.6	4799.2	4690.7	4597.4	4637.4	4944.0
35°	6145.7	6124.7	5861.9	5340.1	5020.2	4961.1	4884.9	4745.9	4616.4	4627.8	4984.0
37.5°	7025.5	6960.8	6597.0	5839.1	5286.8	5136.3	5024.0	4835.4	4658.3	4624.0	5031.6
40°	8017.8	7935.9	7535.9	6522.8	5686.7	5444.8	5263.9	4963.0	4726.9	4641.2	5102.0
42.5°	9194.7	9078.6	8648.1	7328.4	6193.3	5842.9	5570.5	5124.9	4827.8	4696.4	5197.3
45°	10640.2	10486.0	9876.5	8236.8	6831.3	6364.7	6000.9	5370.6	4982.1	4803.0	5340.1
47.5°	12100.9	12139.0	11272.5	9276.6	7596.9	7008.4	6539.9	5740.0	5206.8	4974.4	5570.5
50°	13653.1	13679.7	12660.8	10428.8	8465.3	7735.9	7145.5	6153.3	5519.1	5218.2	5915.2
52.5°	14864.3	14868.1	13921.6	11634.3	9369.9	8535.8	7798.8	6625.6	5881.0	5542.0	6374.2
55°	15622.3	15612.8	14805.3	12775.1	10409.8	9375.7	8522.5	7162.7	6322.8	5922.9	6951.3
57.5°	16172.7	16144.1	15414.7	13755.9	11518.2	10367.9	9341.4	7772.1	6844.6	6376.1	7711.2
60°	16382.2	16365.0	15828.0	14603.4	12683.7	11464.8	10286.0	8453.9	7436.9	6911.3	8688.1
62.5°	16462.1	16494.5	16233.6	15424.2	13931.1	12679.9	11323.9	9269.0	8103.5	7516.9	9718.5
65°	16744.0	16803.0	16749.7	16498.3	15340.4	14102.5	12700.8	10238.4	8831.0	8166.3	10794.5
67.5°	17302.0	17361.0	17383.9	17783.8	17062.0	15875.6	14418.7	11445.8	9682.3	8840.5	11603.9
70°	17288.7	17271.5	17675.3	18806.5	19217.9	18330.4	16734.5	12931.3	10697.3	9400.4	11706.7
72.5°	15736.5	15599.4	16553.6	18795.1	21011.9	20893.8	19562.6	14847.2	11573.4	9469.0	10158.4
75°	11805.7	11440.1	13125.5	16938.3	21310.9	22348.8	21360.4	16035.5	11365.8	8366.3	7069.4
77.5°	5048.7	4681.2	6667.5	12539.0	19073.2	20891.9	19711.1	13990.2	9072.8	5532.5	3471.8
80°	1321.7	1319.8	2014.9	5684.8	12971.3	15428.0	13535.0	9034.8	5183.9	1976.8	957.9
82.5°	546.6	533.2	740.8	2211.1	6338.0	8657.7	7065.5	4029.8	1872.1	535.2	318.0
85°	203.8	201.9	359.9	763.7	2235.8	3570.9	2584.4	1030.3	466.6	260.9	142.8
87.5°	57.1	55.2	78.1	264.7	544.7	826.5	441.8	169.5	131.4	102.8	41.9
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°	4106.0	4106.0	4106.0	4106.0	4106.0	4106.0	4106.0	4106.0	4106.0	4106.0	4106.0
2.5°	4119.3	4128.9	4146.0	4159.3	4176.5	4195.5	4222.2	4239.3	4256.5	4267.9	4260.3
5°	4136.5	4157.4	4201.2	4245.0	4296.5	4344.1	4399.3	4439.3	4471.7	4481.2	4485.0
7.5°	4174.6	4208.9	4283.1	4357.4	4439.3	4517.4	4597.4	4665.9	4721.2	4742.1	4744.0
10°	4241.2	4286.9	4391.7	4496.4	4605.0	4725.0	4827.8	4926.8	5004.9	5037.3	5039.2
12.5°	4325.0	4382.2	4519.3	4664.0	4814.5	4980.2	5113.5	5235.4	5332.5	5376.3	5376.3
15°	4433.6	4507.9	4683.1	4877.3	5098.2	5328.7	5498.2	5633.4	5741.9	5795.3	5791.5
17.5°	4551.7	4650.7	4871.6	5164.9	5481.0	5783.8	5981.9	6080.9	6193.3	6244.7	6242.8
20°	4665.9	4787.8	5103.9	5530.5	5951.4	6273.3	6433.3	6459.9	6467.5	6473.3	6488.5
22.5°	4784.0	4947.8	5395.3	5991.4	6442.8	6665.6	6688.5	6574.2	6414.2	6339.9	6360.9
25°	4913.5	5130.6	5776.2	6499.9	6865.6	6892.2	6717.0	6439.0	6136.2	5997.1	6018.1
27.5°	5039.2	5342.0	6233.3	6985.6	7170.3	6936.0	6559.0	6164.7	5799.1	5652.4	5669.6
30°	5164.9	5583.9	6738.0	7410.2	7309.3	6827.5	6309.5	5869.5	5502.0	5347.7	5364.9
32.5°	5292.5	5865.7	7318.8	7716.9	7284.6	6597.0	5999.0	5538.2	5214.4	5052.5	5073.5
35°	5437.2	6212.3	7869.2	7884.5	7118.9	6258.1	5589.6	5142.0	4860.2	4730.7	4759.2
37.5°	5625.8	6652.3	8354.9	7926.4	6829.4	5761.0	5081.1	4673.5	4441.2	4382.2	4424.1
40°	5860.0	7181.7	8726.2	7859.7	6400.9	5157.3	4525.0	4199.3	4067.9	4081.3	4127.0
42.5°	6164.7	7774.0	8987.1	7688.3	5804.8	4534.5	4037.5	3892.7	3955.6	4008.9	4058.4
45°	6560.9	8389.1	9149.0	7396.9	5130.6	4007.0	3749.9	3784.2	3831.8	3837.5	3875.6
47.5°	7067.4	9011.9	9255.7	6957.0	4443.1	3635.6	3567.1	3574.7	3565.1	3525.2	3555.6
50°	7699.7	9617.5	9350.9	6374.2	3858.4	3403.3	3311.9	3285.2	3153.8	3024.3	3041.4
52.5°	8419.6	10173.6	9390.9	5650.5	3403.3	3209.0	3060.5	2892.9	2647.2	2607.2	2620.5
55°	9219.5	10687.8	9288.0	4761.1	3020.5	2959.5	2734.8	2532.9	2506.3	2472.0	2477.7
57.5°	10175.5	11242.0	9078.6	3768.9	2628.2	2668.1	2449.1	2472.0	2424.4	2371.1	2361.5
60°	11221.1	11815.3	8711.0	2864.3	2222.5	2304.4	2374.9	2373.0	2359.6	2315.8	2300.6
62.5°	12161.9	12192.3	7987.3	2193.9	1866.4	2022.5	2214.9	2213.0	2201.6	2176.8	2167.3
65°	12721.8	12135.2	6779.9	1727.3	1573.1	1790.2	1997.8	2013.0	2014.9	2013.0	2013.0
67.5°	12622.8	11466.7	5123.0	1375.0	1331.2	1554.0	1782.6	1803.5	1818.8	1822.6	1826.4
70°	11502.9	9998.4	3340.4	1097.0	1116.0	1346.5	1578.8	1599.7	1613.1	1628.3	1635.9
72.5°	8966.2	7351.2	1912.1	887.5	927.5	1167.4	1376.9	1401.7	1409.3	1437.9	1449.3
75°	5463.9	4323.1	1032.2	698.9	761.8	997.9	1177.0	1205.5	1218.9	1253.1	1256.9
77.5°	2597.7	1872.1	588.5	544.7	613.2	815.1	994.1	1026.5	990.3	1009.4	994.1
80°	878.0	695.1	371.4	415.2	468.5	636.1	796.1	828.4	752.3	748.5	740.8
82.5°	306.6	281.9	236.2	276.1	302.8	455.2	601.8	643.7	559.9	558.0	531.3
85°	120.0	114.3	131.4	150.5	180.9	280.0	396.1	417.1	344.7	278.1	274.2
87.5°	24.8	26.7	32.4	34.3	55.2	97.1	142.8	175.2	139.0	118.1	108.6
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)