

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: P885154

Luminaire Tested: **NAV-SB6B-760-U-SL4**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P885154
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-SB6B-760-U-SL4
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 5700K, 450mA 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: 36527 lumens
Efficiency: N/A
Efficacy: 165.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B4 - U0 - G5

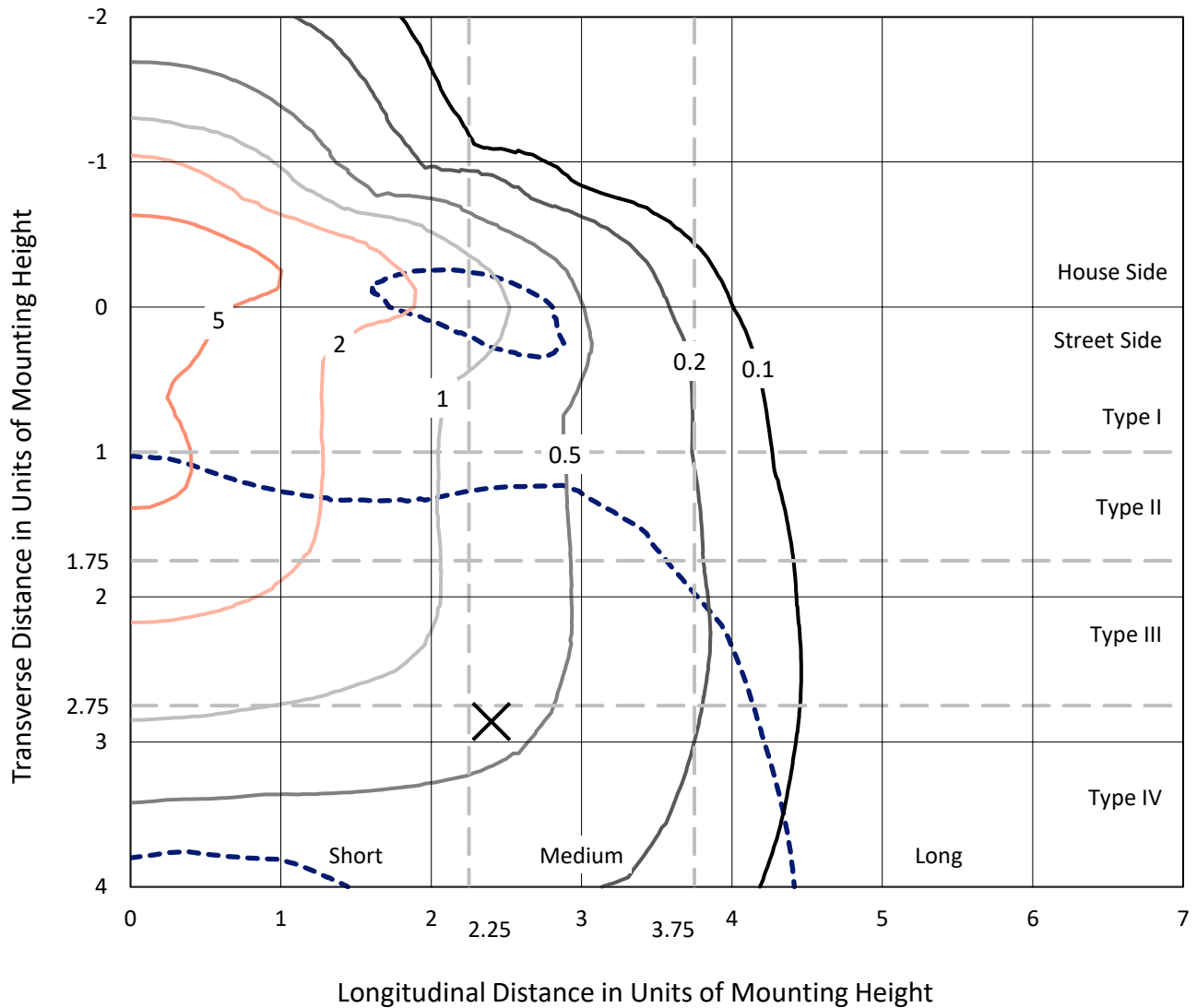
Input Watts (W): 220.4
Input Voltage (V): 120.0
Input Current (Ain): 1.838
Voltage Rise (V): NR
Power Factor: 0.995
Total Harmonic Distortion (THDi): 8.657
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

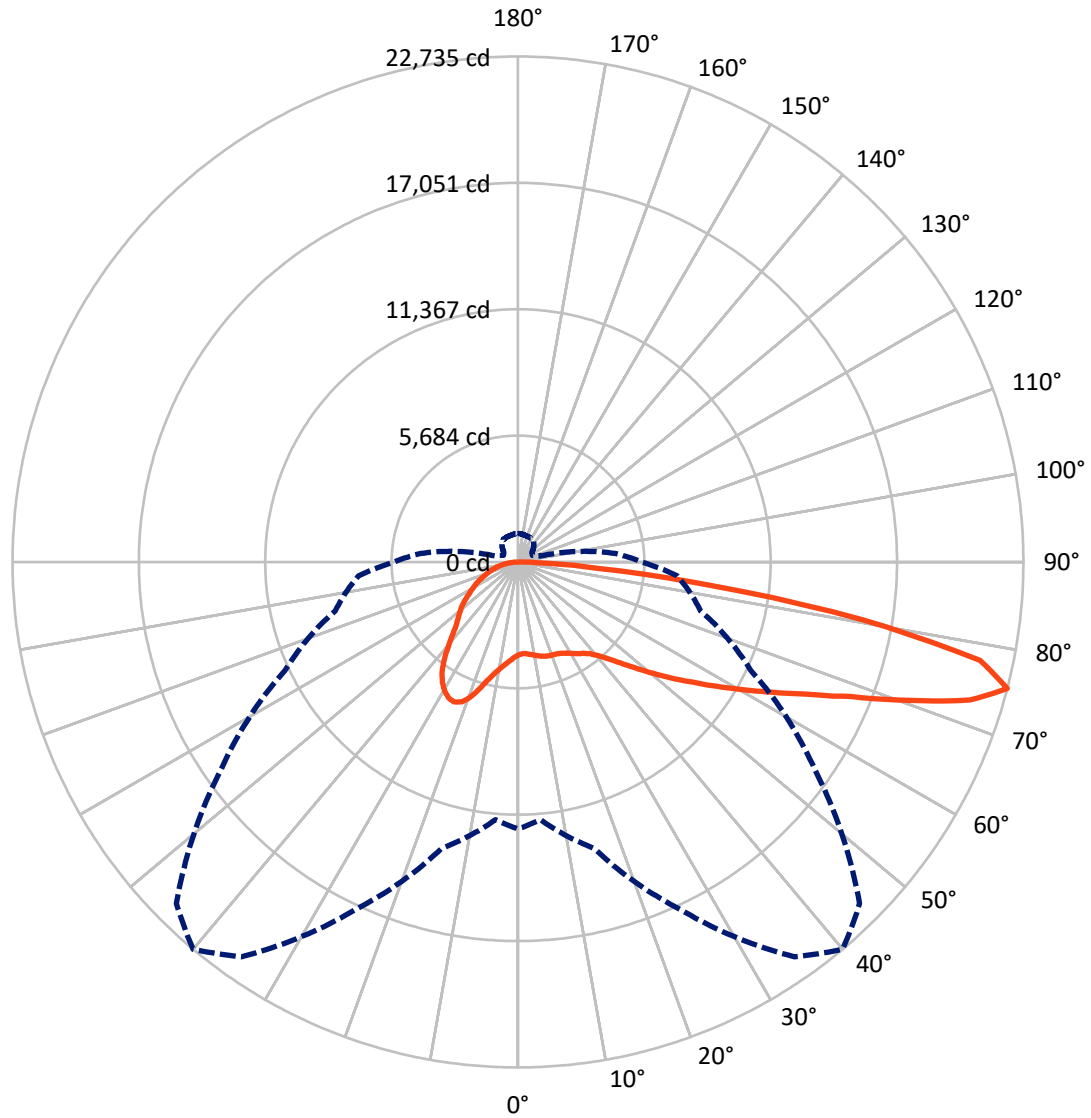
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.6 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	11317.3	0.0	11317.3
	% Fixture	31.0	0.0	31.0
Street Side	Lumens	25209.7	0.0	25209.7
	% Fixture	69.0	0.0	69.0
Total	Lumens	36527.0	0.0	36527.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	416.9	1.1
10°-20°	1399.8	3.8
20°-30°	2556.0	7.0
30°-40°	3625.1	9.9
40°-50°	4895.0	13.4
50°-60°	6585.1	18.0
60°-70°	8358.0	22.9
70°-80°	7585.4	20.8
80°-90°	1105.7	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°	36527.0	100.0
0°-180°	36527.0	100.0



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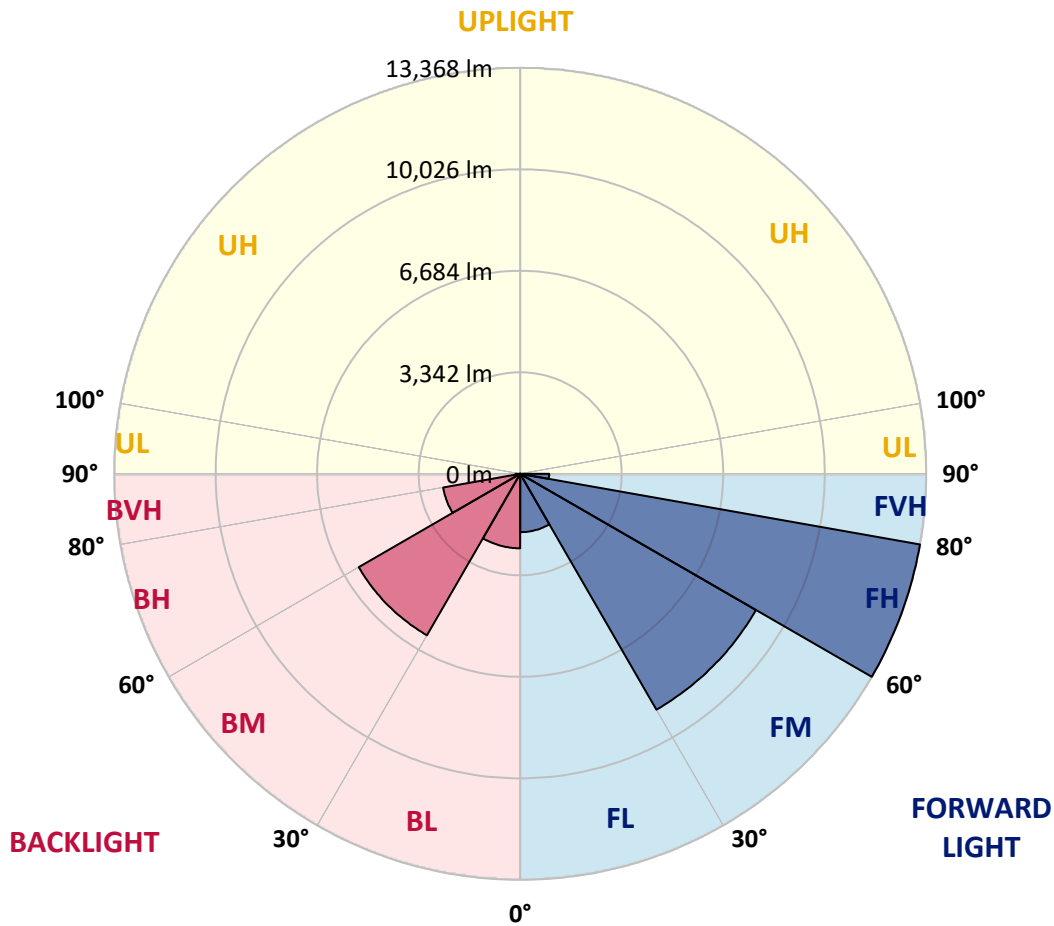
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1921.4	5.3			
FM (30°-60°)	8966.6	24.5			
FH (60°-80°)	13368.3	36.6			G5
FVH (80°-90°)	953.5	2.6			G5
BL (0°-30°)	2451.4	6.7	B3/2500		
BM (30°-60°)	6138.6	16.8	B4/8500		
BH (60°-80°)	2575.0	7.0	B4/5000		G4/5000
BVH (80°-90°)	152.2	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°	4176.9	4176.9	4176.9	4176.9	4176.9	4176.9	4176.9	4176.9	4176.9	4176.9	4176.9
2.5°	4113.0	4136.2	4130.4	4122.7	4122.7	4124.6	4122.7	4136.2	4149.8	4163.3	4184.7
5°	4155.6	4178.8	4167.2	4157.5	4149.8	4147.9	4142.0	4140.1	4147.9	4165.3	4194.3
7.5°	4238.9	4262.2	4244.7	4227.3	4211.8	4204.0	4196.3	4184.7	4178.8	4188.5	4229.2
10°	4331.9	4355.1	4333.8	4302.8	4277.7	4268.0	4260.2	4248.6	4240.8	4246.7	4291.2
12.5°	4424.9	4448.1	4419.1	4376.5	4343.5	4337.7	4328.0	4324.1	4322.2	4320.3	4364.8
15°	4512.1	4531.4	4494.6	4444.3	4409.4	4399.7	4390.0	4395.8	4405.5	4417.1	4467.5
17.5°	4579.9	4599.3	4545.0	4479.1	4446.2	4442.3	4436.5	4455.9	4483.0	4512.1	4574.1
20°	4641.9	4661.2	4591.5	4502.4	4463.6	4463.6	4465.6	4506.3	4545.0	4587.6	4672.9
22.5°	4729.1	4744.6	4659.3	4537.3	4481.1	4484.9	4500.4	4541.1	4589.6	4647.7	4765.9
25°	4858.9	4870.5	4765.9	4603.1	4539.2	4550.8	4564.4	4583.8	4630.2	4698.1	4856.9
27.5°	5068.1	5077.8	4940.2	4719.4	4622.5	4641.9	4661.2	4647.7	4669.0	4727.1	4930.5
30°	5362.6	5368.4	5194.0	4901.5	4763.9	4773.6	4777.5	4721.3	4680.6	4727.1	4982.8
32.5°	5711.3	5709.3	5502.1	5122.3	4924.7	4915.0	4882.1	4771.7	4676.7	4717.4	5029.3
35°	6251.8	6230.5	5963.1	5432.3	5106.8	5046.8	4969.3	4827.9	4696.1	4707.7	5070.0
37.5°	7146.9	7081.0	6711.0	5939.9	5378.1	5225.0	5110.7	4918.9	4738.7	4703.9	5118.5
40°	8156.2	8072.9	7666.1	6635.4	5784.9	5538.9	5354.8	5048.7	4808.5	4721.3	5190.1
42.5°	9353.5	9235.3	8797.5	7454.9	6300.2	5943.8	5666.7	5213.4	4911.2	4777.5	5287.0
45°	10823.9	10667.0	10047.1	8379.0	6949.2	6474.6	6104.6	5463.3	5068.1	4886.0	5432.3
47.5°	12309.9	12348.6	11467.1	9436.8	7728.1	7129.4	6652.8	5839.2	5296.7	5060.3	5666.7
50°	13888.8	13915.9	12879.5	10608.9	8611.5	7869.5	7268.9	6259.6	5614.4	5308.3	6017.4
52.5°	15121.0	15124.8	14162.0	11835.2	9531.7	8683.2	7933.4	6740.0	5982.5	5637.7	6484.3
55°	15892.0	15882.3	15060.9	12995.7	10589.5	9537.5	8669.6	7286.3	6432.0	6025.1	7071.3
57.5°	16451.9	16422.9	15680.9	13993.4	11717.0	10546.9	9502.7	7906.3	6962.8	6486.2	7844.3
60°	16665.0	16647.6	16101.3	14855.5	12902.7	11662.8	10463.6	8599.9	7565.3	7030.6	8838.2
62.5°	16746.4	16779.3	16513.9	15690.5	14171.7	12898.8	11519.4	9429.0	8243.4	7646.7	9886.3
65°	17033.1	17093.2	17038.9	16783.2	15605.3	14346.0	12920.1	10415.2	8983.5	8307.3	10980.9
67.5°	17600.8	17660.8	17684.1	18090.9	17356.7	16149.7	14667.6	11643.4	9849.5	8993.1	11804.2
70°	17587.2	17569.8	17980.5	19131.3	19549.7	18646.9	17023.4	13154.6	10882.1	9562.7	11908.8
72.5°	16008.3	15868.8	16839.4	19119.6	21374.7	21254.6	19900.4	15103.5	11773.2	9632.5	10333.8
75°	12009.6	11637.6	13352.2	17230.7	21678.9	22734.7	21729.2	16312.4	11562.1	8510.7	7191.4
77.5°	5135.9	4762.0	6782.6	12755.5	19402.5	21252.7	20051.5	14231.7	9229.5	5628.0	3531.8
80°	1344.5	1342.6	2049.7	5783.0	13195.2	15694.4	13768.7	9190.8	5273.4	2011.0	974.5
82.5°	556.0	542.5	753.6	2249.3	6447.5	8807.2	7187.5	4099.4	1904.4	544.4	323.5
85°	207.3	205.4	366.2	776.9	2274.4	3632.5	2629.0	1048.1	474.6	265.4	145.3
87.5°	58.1	56.2	79.4	269.3	554.1	840.8	449.5	172.4	133.7	104.6	42.6
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°	4176.9	4176.9	4176.9	4176.9	4176.9	4176.9	4176.9	4176.9	4176.9	4176.9	4176.9
2.5°	4190.5	4200.2	4217.6	4231.2	4248.6	4268.0	4295.1	4312.5	4330.0	4341.6	4333.8
5°	4207.9	4229.2	4273.8	4318.3	4370.6	4419.1	4475.3	4515.9	4548.9	4558.6	4562.4
7.5°	4246.7	4281.5	4357.1	4432.6	4515.9	4595.4	4676.7	4746.5	4802.7	4824.0	4825.9
10°	4314.5	4361.0	4467.5	4574.1	4684.5	4806.5	4911.2	5011.9	5091.3	5124.3	5126.2
12.5°	4399.7	4457.8	4597.3	4744.6	4897.6	5066.2	5201.8	5325.8	5424.6	5469.1	5469.1
15°	4510.1	4585.7	4763.9	4961.5	5186.3	5420.7	5593.1	5730.7	5841.1	5895.3	5891.5
17.5°	4630.2	4731.0	4955.7	5254.1	5575.7	5883.7	6085.2	6185.9	6300.2	6352.5	6350.6
20°	4746.5	4870.5	5192.1	5626.0	6054.2	6381.6	6544.3	6571.5	6579.2	6585.0	6600.5
22.5°	4866.6	5033.2	5488.5	6094.9	6554.0	6780.7	6803.9	6687.7	6525.0	6449.4	6470.7
25°	4998.3	5219.2	5876.0	6612.2	6984.1	7011.2	6833.0	6550.2	6242.1	6100.7	6122.0
27.5°	5126.2	5434.2	6340.9	7106.2	7294.1	7055.8	6672.2	6271.2	5899.2	5750.0	5767.5
30°	5254.1	5680.3	6854.3	7538.2	7435.5	6945.4	6418.4	5970.9	5597.0	5440.1	5457.5
32.5°	5383.9	5967.0	7445.2	7850.1	7410.3	6711.0	6102.6	5633.8	5304.4	5139.8	5161.1
35°	5531.1	6319.6	8005.1	8020.6	7241.8	6366.1	5686.1	5230.8	4944.1	4812.4	4841.4
37.5°	5722.9	6767.1	8499.1	8063.2	6947.3	5860.5	5168.8	4754.2	4517.9	4457.8	4500.4
40°	5961.2	7305.7	8876.9	7995.4	6511.4	5246.3	4603.1	4271.8	4138.2	4151.7	4198.2
42.5°	6271.2	7908.2	9142.3	7821.1	5905.0	4612.8	4107.2	3959.9	4023.9	4078.1	4128.5
45°	6674.1	8534.0	9307.0	7524.6	5219.2	4076.2	3814.6	3849.5	3897.9	3903.7	3942.5
47.5°	7189.5	9167.5	9415.5	7077.1	4519.8	3698.4	3628.6	3636.4	3626.7	3586.0	3617.0
50°	7832.7	9783.6	9512.4	6484.3	3925.1	3462.0	3369.0	3341.9	3208.2	3076.5	3093.9
52.5°	8565.0	10349.3	9553.0	5748.1	3462.0	3264.4	3113.3	2942.8	2692.9	2652.2	2665.8
55°	9378.7	10872.4	9448.4	4843.4	3072.6	3010.6	2782.0	2576.7	2549.5	2514.7	2520.5
57.5°	10351.2	11436.1	9235.3	3834.0	2673.5	2714.2	2491.4	2514.7	2466.2	2412.0	2402.3
60°	11414.8	12019.3	8861.4	2913.8	2260.9	2344.2	2415.9	2413.9	2400.4	2355.8	2340.3
62.5°	12371.9	12402.9	8125.2	2231.8	1898.6	2057.5	2253.1	2251.2	2239.6	2214.4	2204.7
65°	12941.5	12344.7	6896.9	1757.2	1600.2	1821.1	2032.3	2047.8	2049.7	2047.8	2047.8
67.5°	12840.7	11664.7	5211.5	1398.8	1354.2	1580.9	1813.4	1834.7	1850.2	1854.0	1857.9
70°	11701.6	10171.0	3398.1	1115.9	1135.3	1369.7	1606.1	1627.4	1640.9	1656.4	1664.2
72.5°	9121.0	7478.1	1945.1	902.8	943.5	1187.6	1400.7	1425.9	1433.6	1462.7	1474.3
75°	5558.2	4397.8	1050.0	711.0	774.9	1015.2	1197.3	1226.3	1239.9	1274.8	1278.6
77.5°	2642.5	1904.4	598.6	554.1	623.8	829.2	1011.3	1044.2	1007.4	1026.8	1011.3
80°	893.1	707.1	377.8	422.3	476.6	647.1	809.8	842.7	765.3	761.4	753.6
82.5°	311.9	286.7	240.2	280.9	308.0	463.0	612.2	654.8	569.6	567.6	540.5
85°	122.1	116.2	133.7	153.1	184.0	284.8	403.0	424.3	350.7	282.9	279.0
87.5°	25.2	27.1	32.9	34.9	56.2	98.8	145.3	178.2	141.4	120.1	110.4
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)