

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: P885124

Luminaire Tested: **NAV-SB6B-735-U-SL4**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P885124
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-735-U-SL4
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 3500K, 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: 33880 lumens
Efficiency: N/A
Efficacy: 153.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B4 - U0 - G5

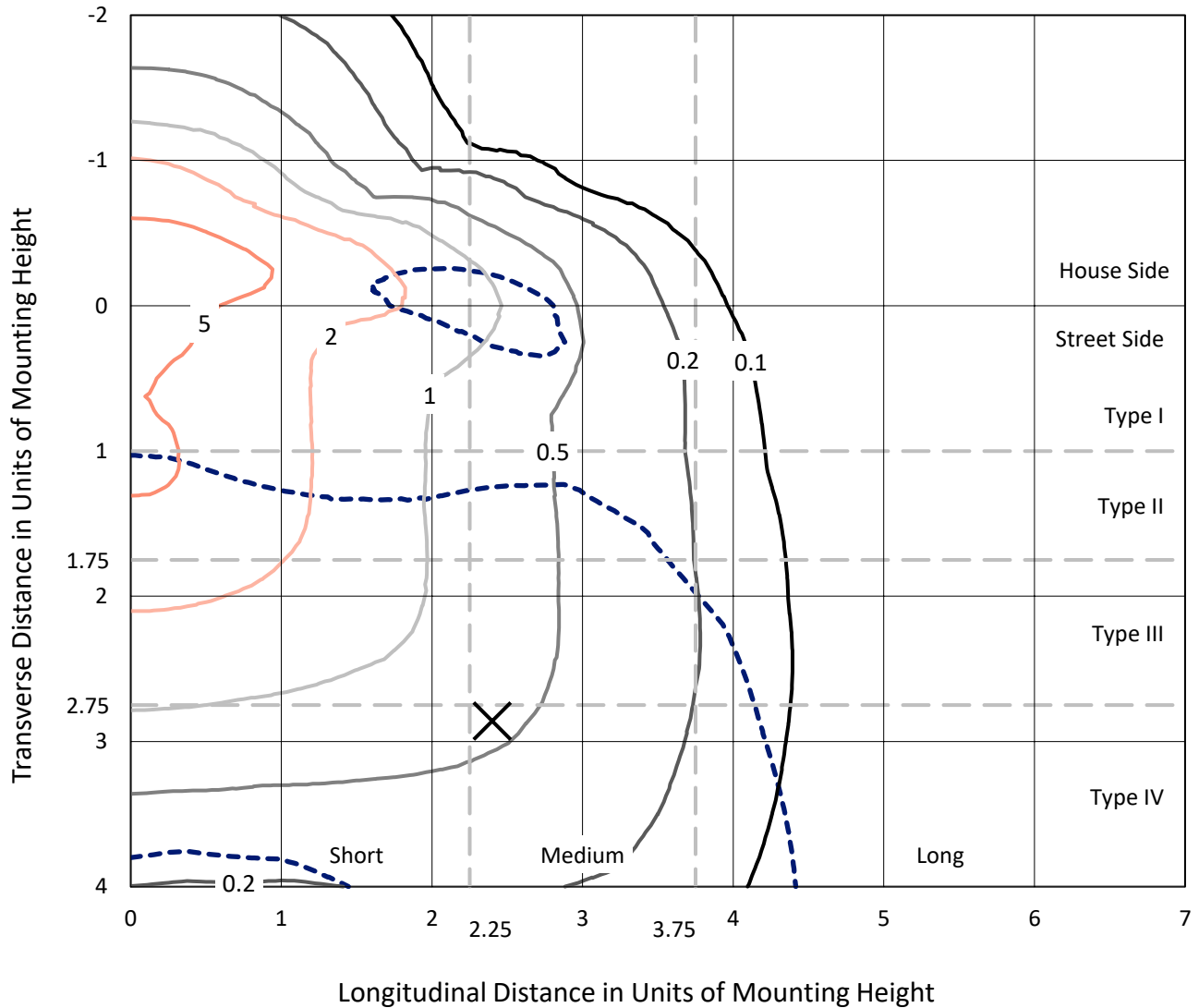
Input Watts (W): 220.4
Input Voltage (V): 120.0
Input Current (Ain): 1.838
Voltage Rise (V): NR
Power Factor: 0.995
Total Harmonic Distortion (THDi): 8.657
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P885124
 CATALOG NUMBER: NAV-SB6B-735-U-SL4

Iso-Footcandle Lines of Horizontal Illumination

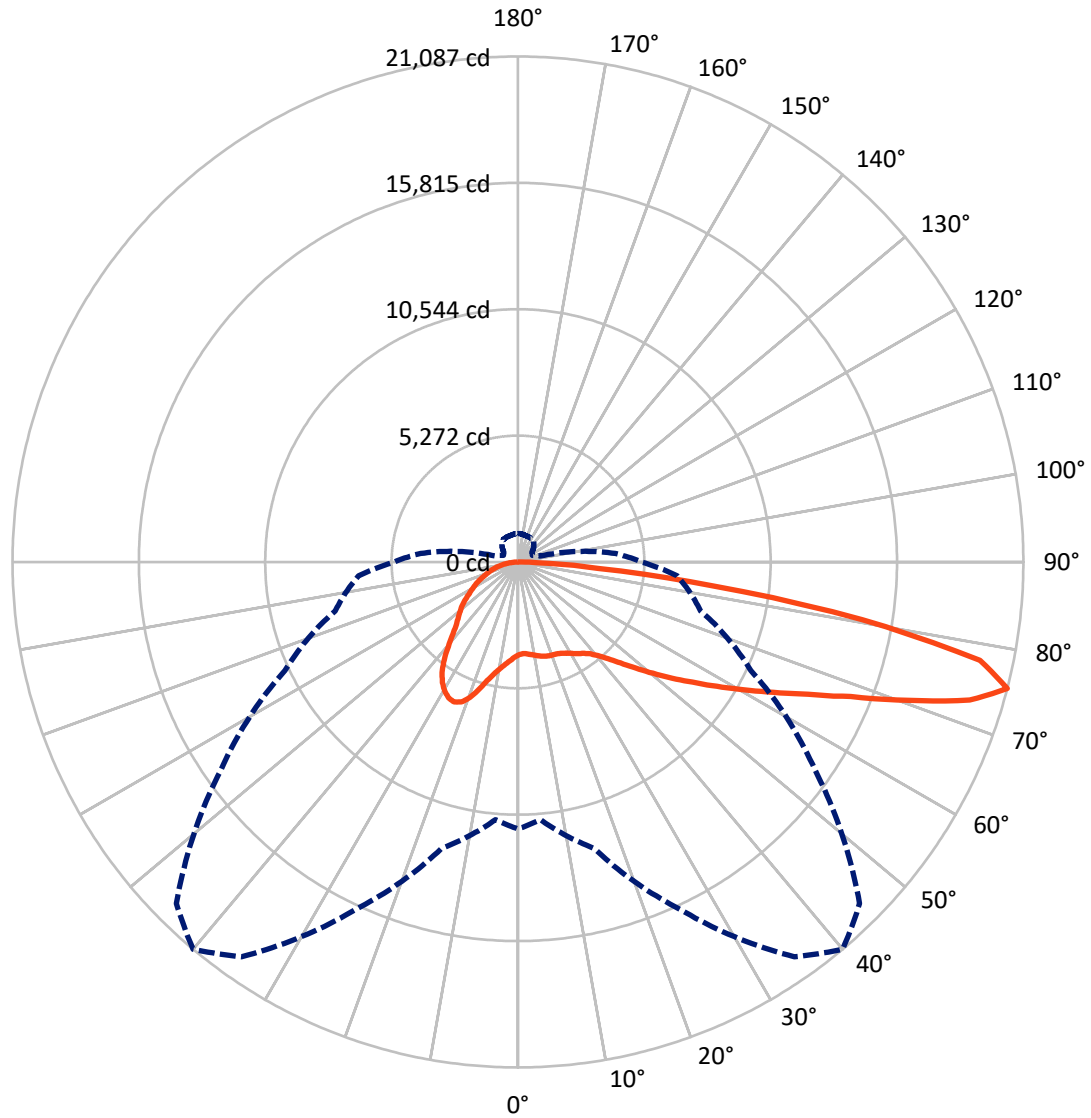
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8 fc
 Type IV - Medium - N/A

REPORT NUMBER: P885124
CATALOG NUMBER: NAV-SB6B-735-U-SL4

Luminous Intensity Polar Plot



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

REPORT NUMBER: P885124

CATALOG NUMBER: NAV-SB6B-735-U-SL4

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10497.2	0.0	10497.2
	% Fixture	31.0	0.0	31.0
Street Side	Lumens	23382.8	0.0	23382.8
	% Fixture	69.0	0.0	69.0
Total	Lumens	33880.0	0.0	33880.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	386.7	1.1
10°-20°	1298.4	3.8
20°-30°	2370.8	7.0
30°-40°	3362.4	9.9
40°-50°	4540.3	13.4
50°-60°	6107.9	18.0
60°-70°	7752.3	22.9
70°-80°	7035.7	20.8
80°-90°	1025.6	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°	33880.0	100.0
0°-180°	33880.0	100.0

Coefficient of Utilization



REPORT NUMBER: P885124

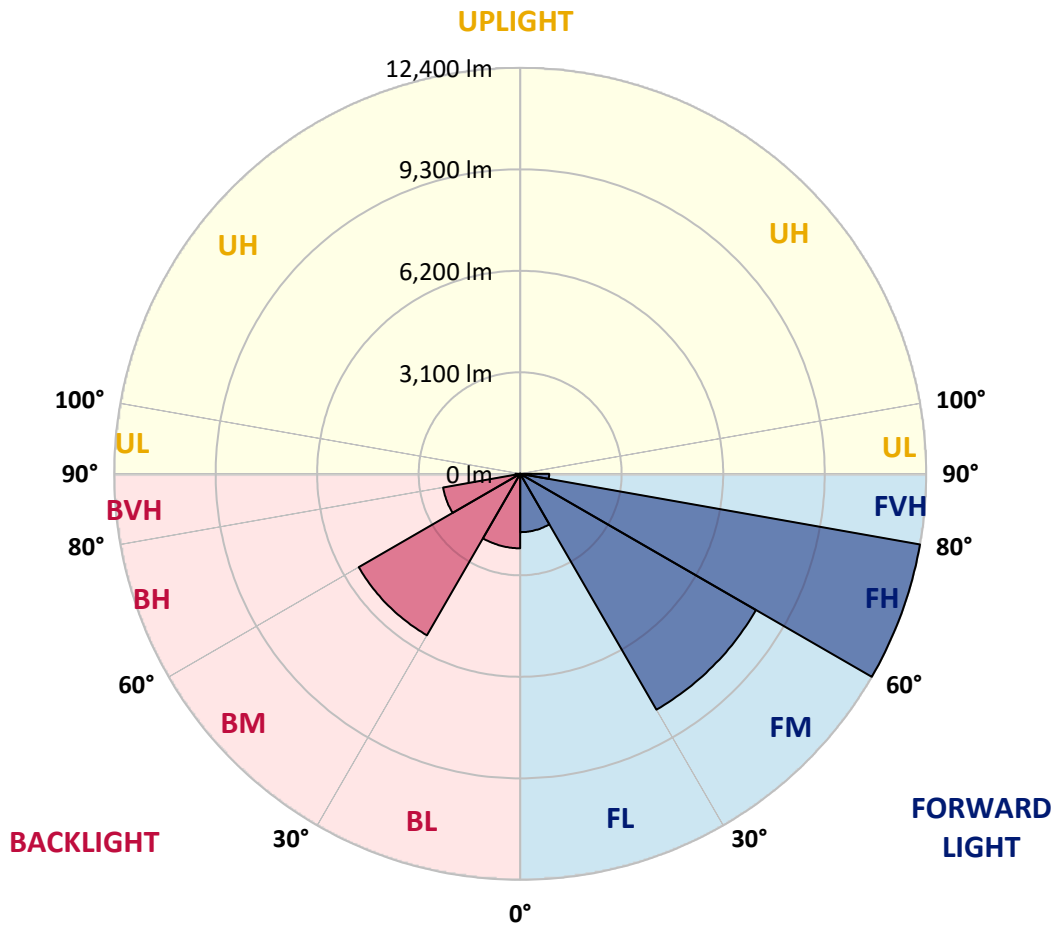
CATALOG NUMBER: NAV-SB6B-735-U-SL4

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1782.1	5.3			
FM (30°-60°)	8316.8	24.5			
FH (60°-80°)	12399.6	36.6			G5
FVH (80°-90°)	884.4	2.6			G5
BL (0°-30°)	2273.8	6.7	B3/2500		
BM (30°-60°)	5693.8	16.8	B4/8500		
BH (60°-80°)	2388.4	7.0	B3/2500		G3/2500
BVH (80°-90°)	141.2	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



REPORT NUMBER: P885124

CATALOG NUMBER: NAV-SB6B-735-U-SL4

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	3874.2	3874.2	3874.2	3874.2	3874.2	3874.2	3874.2	3874.2	3874.2	3874.2	3874.2
2.5°	3814.9	3836.5	3831.1	3823.9	3823.9	3825.7	3823.9	3836.5	3849.1	3861.6	3881.4
5°	3854.5	3876.0	3865.2	3856.3	3849.1	3847.3	3841.9	3840.1	3847.3	3863.4	3890.4
7.5°	3931.7	3953.3	3937.1	3920.9	3906.6	3899.4	3892.2	3881.4	3876.0	3885.0	3922.7
10°	4018.0	4039.5	4019.8	3991.0	3967.7	3958.7	3951.5	3940.7	3933.5	3938.9	3980.2
12.5°	4104.2	4125.8	4098.8	4059.3	4028.8	4023.4	4014.4	4010.8	4009.0	4007.2	4048.5
15°	4185.1	4203.1	4168.9	4122.2	4089.9	4080.9	4071.9	4077.3	4086.3	4097.0	4143.8
17.5°	4248.0	4266.0	4215.6	4154.5	4124.0	4120.4	4115.0	4133.0	4158.1	4185.1	4242.6
20°	4305.5	4323.5	4258.8	4176.1	4140.2	4140.2	4142.0	4179.7	4215.6	4255.2	4334.2
22.5°	4386.4	4400.7	4321.7	4208.5	4156.3	4159.9	4174.3	4212.0	4257.0	4310.9	4420.5
25°	4506.7	4517.5	4420.5	4269.6	4210.3	4221.0	4233.6	4251.6	4294.7	4357.6	4505.0
27.5°	4700.8	4709.8	4582.2	4377.4	4287.5	4305.5	4323.5	4310.9	4330.6	4384.6	4573.2
30°	4974.0	4979.3	4817.6	4546.3	4418.7	4427.7	4431.3	4379.2	4341.4	4384.6	4621.8
32.5°	5297.4	5295.6	5103.3	4751.1	4567.8	4558.9	4528.3	4425.9	4337.8	4375.6	4664.9
35°	5798.8	5779.0	5531.0	5038.6	4736.8	4681.1	4609.2	4478.0	4355.8	4366.6	4702.6
37.5°	6628.9	6567.9	6224.6	5509.4	4988.3	4846.4	4740.4	4562.5	4395.3	4363.0	4747.5
40°	7565.2	7487.9	7110.5	6154.6	5365.7	5137.5	4966.8	4682.9	4460.0	4379.2	4814.0
42.5°	8675.7	8566.1	8159.9	6914.7	5843.7	5513.0	5256.1	4835.6	4555.3	4431.3	4903.9
45°	10039.6	9894.0	9319.0	7771.8	6445.7	6005.4	5662.2	5067.4	4700.8	4531.9	5038.6
47.5°	11417.8	11453.8	10636.1	8752.9	7168.0	6612.8	6170.7	5416.0	4912.9	4693.6	5256.1
50°	12882.3	12907.5	11946.1	9840.1	7987.4	7299.2	6742.2	5805.9	5207.6	4923.6	5581.3
52.5°	14025.2	14028.8	13135.7	10977.6	8841.0	8053.9	7358.5	6251.6	5549.0	5229.1	6014.4
55°	14740.4	14731.4	13969.5	12053.9	9822.1	8846.4	8041.3	6758.3	5965.9	5588.5	6558.9
57.5°	15259.7	15232.7	14544.5	12979.4	10868.0	9782.6	8814.0	7333.4	6458.2	6016.2	7275.8
60°	15457.4	15441.2	14934.4	13779.0	11967.7	10817.6	9705.3	7976.7	7017.1	6521.1	8197.7
62.5°	15532.8	15563.4	15317.2	14553.5	13144.7	11964.1	10684.7	8745.8	7646.0	7092.6	9169.8
65°	15798.8	15854.5	15804.2	15567.0	14474.4	13306.4	11983.9	9660.4	8332.5	7705.3	10185.1
67.5°	16325.3	16381.0	16402.6	16779.9	16098.9	14979.4	13604.7	10799.7	9135.7	8341.4	10948.8
70°	16312.7	16296.5	16677.5	17744.9	18133.0	17295.6	15789.8	12201.3	10093.5	8869.7	11045.8
72.5°	14848.2	14718.8	15619.1	17734.1	19825.7	19714.3	18458.3	14009.0	10920.1	8934.4	9584.9
75°	11139.3	10794.3	12384.6	15982.1	20107.9	21087.2	20154.6	15130.3	10724.2	7894.0	6670.3
77.5°	4763.7	4416.9	6291.1	11831.1	17996.4	19712.5	18598.4	13200.4	8560.7	5220.1	3275.8
80°	1247.1	1245.3	1901.2	5363.9	12239.0	14557.1	12770.9	8524.7	4891.3	1865.2	903.9
82.5°	515.7	503.1	699.0	2086.3	5980.2	8168.9	6666.7	3802.3	1766.4	504.9	300.1
85°	192.3	190.5	339.6	720.6	2109.6	3369.3	2438.5	972.1	440.3	246.2	134.8
87.5°	53.9	52.1	73.7	249.8	513.9	779.9	416.9	159.9	124.0	97.0	39.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P885124
 CATALOG NUMBER: NAV-SB6B-735-U-SL4

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3874.2	3874.2	3874.2	3874.2	3874.2	3874.2	3874.2	3874.2	3874.2	3874.2	3874.2
2.5°	3886.8	3895.8	3912.0	3924.5	3940.7	3958.7	3983.8	4000.0	4016.2	4027.0	4019.8
5°	3903.0	3922.7	3964.1	4005.4	4053.9	4098.8	4151.0	4188.7	4219.2	4228.2	4231.8
7.5°	3938.9	3971.3	4041.3	4111.4	4188.7	4262.4	4337.8	4402.5	4454.6	4474.4	4476.2
10°	4001.8	4044.9	4143.8	4242.6	4345.0	4458.2	4555.3	4648.7	4722.4	4752.9	4754.7
12.5°	4080.9	4134.8	4264.2	4400.7	4542.7	4699.0	4824.8	4939.8	5031.5	5072.8	5072.8
15°	4183.3	4253.4	4418.7	4602.0	4810.4	5027.9	5187.8	5315.4	5417.8	5468.1	5464.5
17.5°	4294.7	4388.2	4596.6	4873.3	5171.6	5457.3	5644.2	5737.7	5843.7	5892.2	5890.4
20°	4402.5	4517.5	4815.8	5218.3	5615.5	5919.2	6070.1	6095.3	6102.4	6107.8	6122.2
22.5°	4513.9	4668.5	5090.8	5653.2	6079.1	6289.3	6310.9	6203.1	6052.1	5982.0	6001.8
25°	4636.1	4841.0	5450.1	6133.0	6478.0	6503.2	6337.8	6075.5	5789.8	5658.6	5678.4
27.5°	4754.7	5040.4	5881.4	6591.2	6765.5	6544.5	6188.7	5816.7	5471.7	5333.3	5349.5
30°	4873.3	5268.7	6357.6	6991.9	6896.7	6442.1	5953.3	5538.2	5191.4	5045.8	5062.0
32.5°	4993.7	5534.6	6905.7	7281.2	6873.3	6224.6	5660.4	5225.5	4920.0	4767.3	4787.1
35°	5130.3	5861.6	7425.0	7439.4	6717.0	5904.8	5274.0	4851.8	4585.8	4463.6	4490.6
37.5°	5308.2	6276.7	7883.2	7478.9	6443.9	5435.8	4794.3	4409.7	4190.5	4134.8	4174.3
40°	5529.2	6776.3	8233.6	7416.0	6039.5	4866.1	4269.6	3962.3	3838.3	3850.9	3894.0
42.5°	5816.7	7335.1	8479.8	7254.3	5477.1	4278.5	3809.5	3673.0	3732.3	3782.6	3829.3
45°	6190.5	7915.6	8632.5	6979.4	4841.0	3780.8	3538.2	3570.5	3615.5	3620.9	3656.8
47.5°	6668.5	8503.2	8733.2	6564.3	4192.3	3430.4	3365.7	3372.9	3363.9	3326.2	3354.9
50°	7265.1	9074.6	8823.0	6014.4	3640.6	3211.1	3124.9	3099.7	2975.7	2853.6	2869.7
52.5°	7944.3	9599.3	8860.8	5331.5	3211.1	3027.9	2887.7	2729.6	2497.8	2460.0	2472.6
55°	8699.0	10084.5	8763.7	4492.4	2850.0	2792.5	2580.4	2389.9	2364.8	2332.4	2337.8
57.5°	9601.1	10607.4	8566.1	3556.2	2479.8	2517.5	2310.9	2332.4	2287.5	2237.2	2228.2
60°	10587.6	11148.3	8219.2	2702.6	2097.0	2174.3	2240.8	2239.0	2226.4	2185.1	2170.7
62.5°	11475.3	11504.1	7536.4	2070.1	1761.0	1908.4	2089.9	2088.1	2077.3	2053.9	2044.9
65°	12003.6	11450.2	6397.1	1629.8	1484.3	1689.1	1885.0	1899.4	1901.2	1899.4	1899.4
67.5°	11910.2	10819.4	4833.8	1297.4	1256.1	1466.3	1681.9	1701.7	1716.1	1719.7	1723.3
70°	10853.6	9434.0	3151.8	1035.0	1053.0	1270.4	1489.7	1509.4	1522.0	1536.4	1543.6
72.5°	8460.0	6936.2	1804.1	837.4	875.1	1101.5	1299.2	1322.6	1329.7	1356.7	1367.5
75°	5155.4	4079.1	973.9	659.5	718.8	941.6	1110.5	1137.5	1150.0	1182.4	1186.0
77.5°	2451.0	1766.4	555.3	513.9	578.6	769.1	938.0	968.6	934.4	952.4	938.0
80°	828.4	655.9	350.4	391.7	442.0	600.2	751.1	781.7	709.8	706.2	699.0
82.5°	289.3	265.9	222.8	260.6	285.7	429.5	567.8	607.4	528.3	526.5	501.3
85°	113.2	107.8	124.0	142.0	170.7	264.2	373.8	393.5	325.2	262.4	258.8
87.5°	23.4	25.2	30.5	32.3	52.1	91.6	134.8	165.3	131.2	111.4	102.4
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)