

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: P885149

Luminaire Tested: **NAV-SB6B-750-U-T3**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P885149
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-5)
Test Lab: INNOVATION CENTER
Issue Date: 10/7/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB6B-750-U-T3
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 5000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 36874 lumens
Efficiency: N/A
Efficacy: 167.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

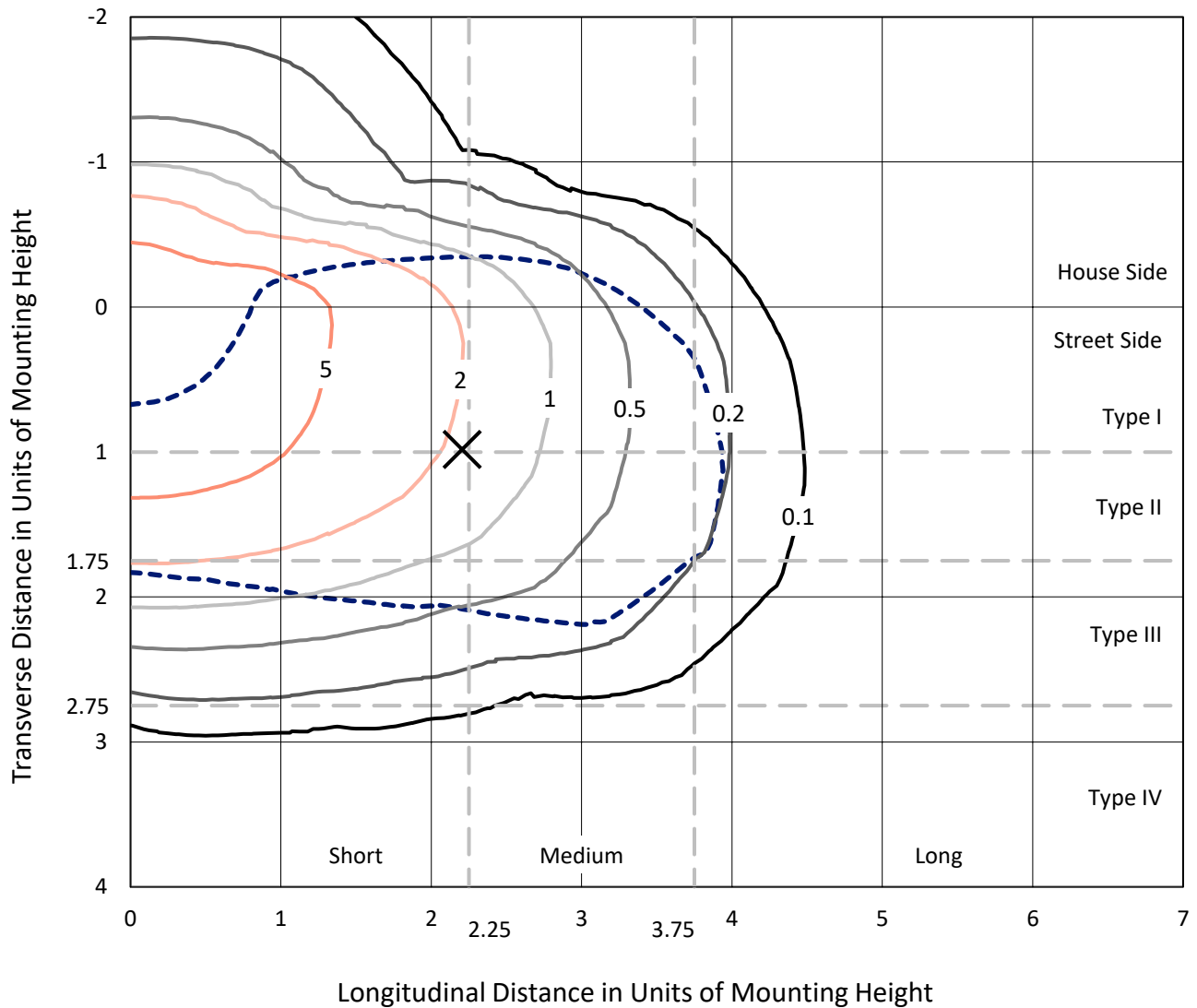
Input Watts (W): 220.4
Input Voltage (V): 120.0
Input Current (Ain): 1.838
Voltage Rise (V): NR
Power Factor: 0.995
Total Harmonic Distortion (THDi): 8.657
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

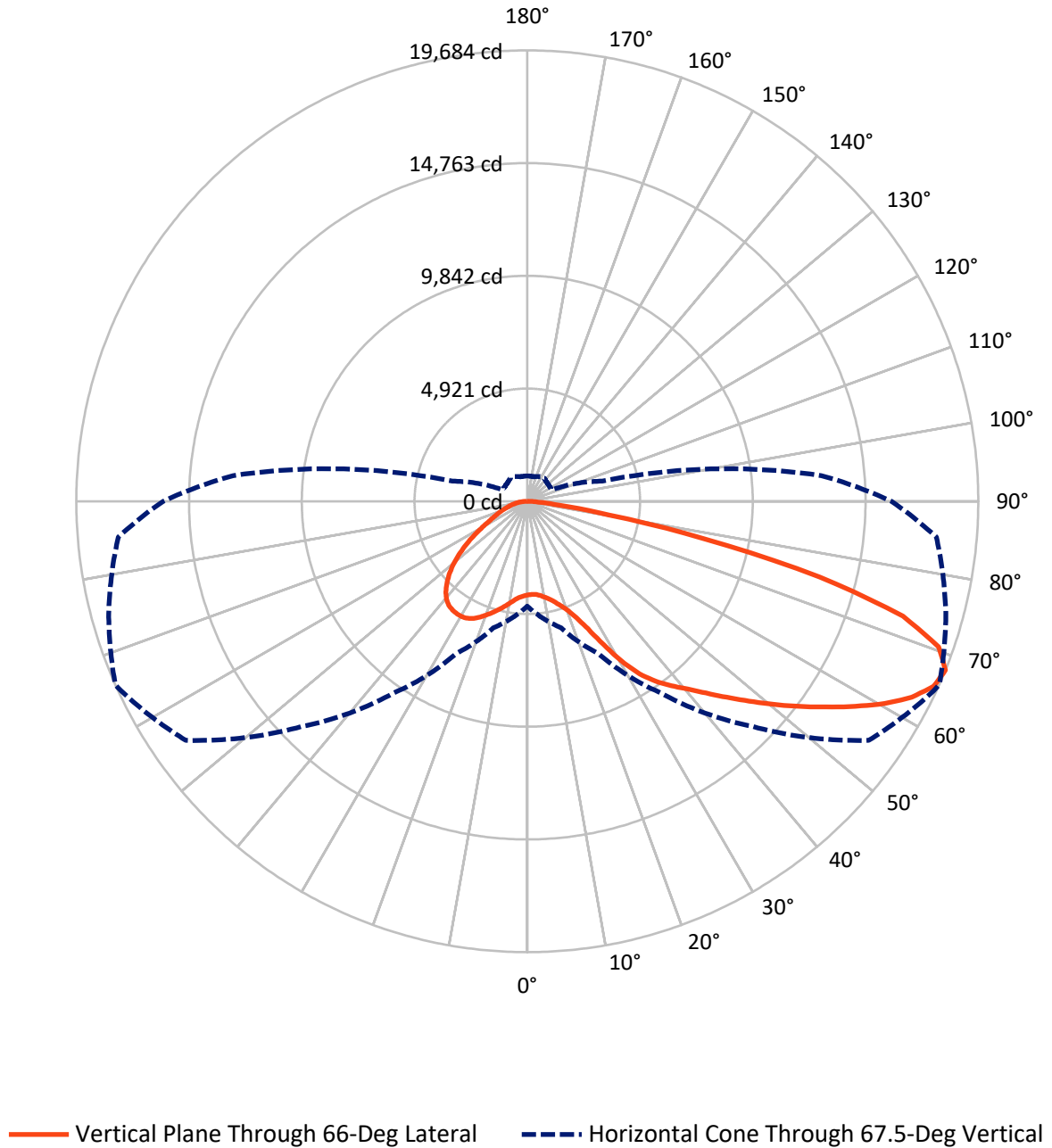
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.3 fc
 Type III - Short - N/A

REPORT NUMBER: P885149
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Luminous Intensity Polar Plot



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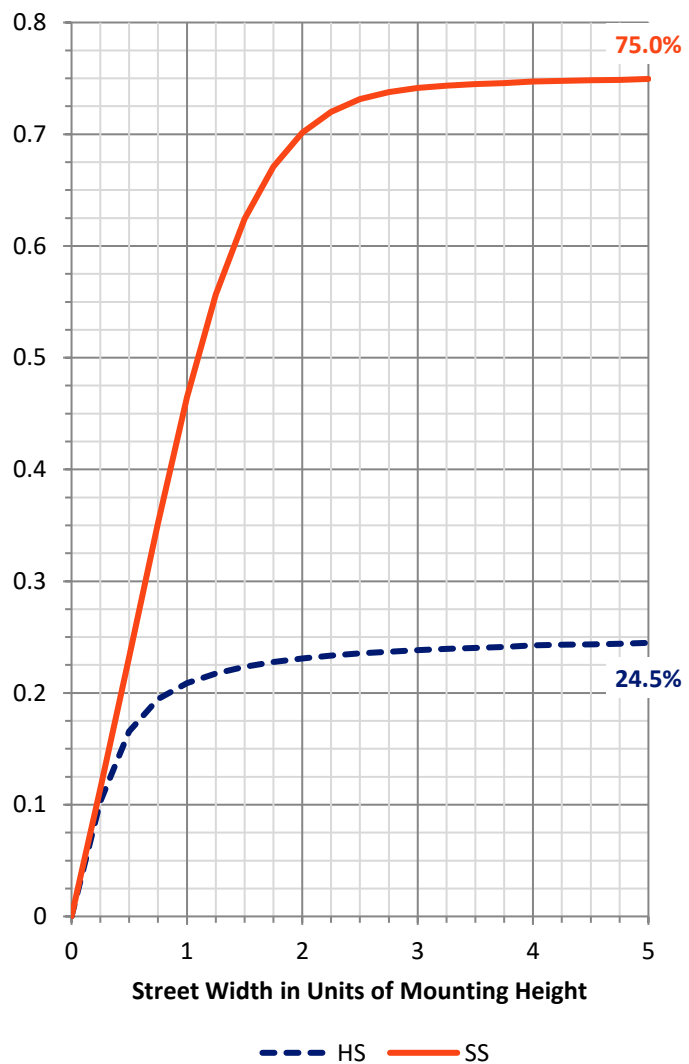
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9168.6	0.0	9168.6
	% Fixture	24.9	0.0	24.9
Street Side	Lumens	27705.4	0.0	27705.4
	% Fixture	75.1	0.0	75.1
Total	Lumens	36874.0	0.0	36874.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	405.5	1.1
10°-20°	1339.7	3.6
20°-30°	2582.2	7.0
30°-40°	4527.5	12.3
40°-50°	6730.9	18.3
50°-60°	8532.1	23.1
60°-70°	8348.4	22.6
70°-80°	3982.3	10.8
80°-90°	425.6	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°	36874.0	100.0
0°-180°	36874.0	100.0

Coefficient of Utilization



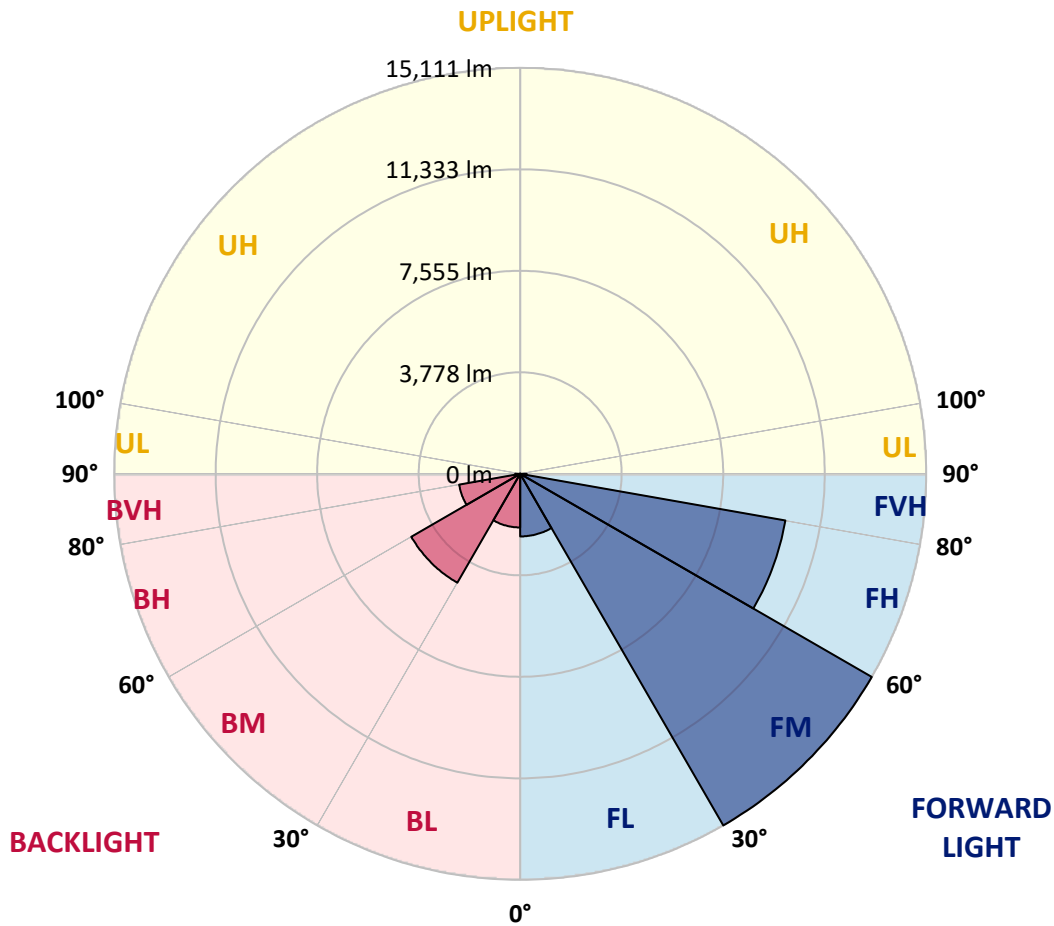
REPORT NUMBER: P885149
 CATALOG NUMBER: NAV-SB6B-750-U-T3

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2330.1	6.3			
FM (30°-60°)	15110.7	41.0			
FH (60°-80°)	10023.4	27.2			G4/12000
FVH (80°-90°)	241.3	0.7			G3/500
BL (0°-30°)	1997.3	5.4	B3/2500		
BM (30°-60°)	4679.8	12.7	B3/5000		
BH (60°-80°)	2307.3	6.3	B3/2500		G3/2500
BVH (80°-90°)	184.3	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



REPORT NUMBER: P885149
 CATALOG NUMBER: NAV-SB6B-750-U-T3

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	4089.8	4089.8	4089.8	4089.8	4089.8	4089.8	4089.8	4089.8	4089.8	4089.8	4089.8
2.5°	4047.2	4070.4	4064.6	4054.9	4053.0	4056.9	4062.7	4068.5	4066.6	4076.3	4091.8
5°	4035.6	4058.8	4056.9	4056.9	4064.6	4080.1	4089.8	4099.5	4089.8	4101.4	4122.7
7.5°	4043.3	4060.8	4068.5	4076.3	4095.6	4124.7	4147.9	4169.2	4157.6	4171.2	4198.3
10°	4142.1	4155.7	4163.4	4163.4	4177.0	4209.9	4233.2	4271.9	4262.2	4283.6	4318.4
12.5°	4322.3	4335.9	4335.9	4328.1	4337.8	4359.1	4366.9	4409.5	4392.0	4426.9	4461.8
15°	4543.2	4570.3	4549.0	4535.4	4539.3	4560.6	4558.7	4591.6	4574.2	4603.2	4634.2
17.5°	4787.3	4822.1	4787.3	4785.3	4777.6	4800.8	4802.8	4831.8	4800.8	4822.1	4843.5
20°	5075.9	5124.4	5095.3	5105.0	5087.6	5097.3	5106.9	5149.6	5101.1	5116.6	5110.8
22.5°	5482.8	5540.9	5509.9	5546.7	5535.1	5527.4	5525.4	5601.0	5525.4	5531.2	5475.0
25°	6075.6	6145.4	6091.1	6141.5	6141.5	6166.7	6195.7	6292.6	6166.7	6129.9	5984.6
27.5°	6951.3	7021.1	6914.5	6945.5	6935.8	6997.8	6966.8	7207.1	7071.4	7011.4	6718.8
30°	8005.3	8129.3	7927.8	7920.0	7910.3	8009.1	8053.7	8212.6	8075.0	8015.0	7662.3
32.5°	9144.4	9274.2	9034.0	8964.3	8927.5	8987.5	8950.7	9078.6	8983.6	8890.6	8454.7
35°	10349.5	10477.4	10248.8	10113.1	9965.9	9840.0	9708.2	9741.2	9652.0	9510.6	9059.2
37.5°	11488.7	11723.1	11480.9	11335.6	11064.4	10818.3	10450.2	10297.2	10213.9	10084.1	9628.8
40°	12649.2	12782.8	12598.8	12474.8	12180.3	11794.8	11205.8	10882.3	10769.9	10644.0	10258.4
42.5°	13503.6	13631.4	13532.6	13447.4	13216.8	12769.3	12007.9	11603.0	11440.2	11298.8	10971.4
45°	14181.6	14276.6	14214.6	14245.6	14146.8	13712.8	12839.0	12376.0	12207.4	12035.0	11777.3
47.5°	14454.8	14555.6	14654.4	14838.4	15007.0	14687.3	13732.2	13212.9	13034.7	12858.4	12604.6
50°	14423.8	14526.5	14813.2	15204.6	15727.7	15621.1	14673.7	14104.1	13939.5	13738.0	13503.6
52.5°	14175.8	14292.1	14660.2	15311.1	16144.2	16320.5	15632.7	15024.4	14869.4	14629.2	14394.8
55°	13524.9	13594.6	14146.8	15069.0	16243.0	16808.7	16572.4	16004.7	15849.7	15514.6	15258.8
57.5°	12317.9	12418.6	13222.6	14416.1	15995.0	17140.0	17397.7	17035.4	16886.2	16403.8	16136.5
60°	10742.8	10903.6	11823.8	13319.5	15363.4	17138.1	18147.5	18048.7	17924.7	17279.5	17000.5
62.5°	8960.4	9146.4	10031.8	11769.6	14259.1	16651.8	18616.3	18897.2	18833.3	18087.4	17730.9
65°	6881.6	7009.4	7891.0	9764.4	12540.7	15607.6	18670.6	19476.5	19488.1	18701.6	18112.6
67.5°	4581.9	4950.0	5715.3	7327.2	10239.1	13900.7	18194.0	19571.4	19683.8	18912.7	17920.8
70°	2235.7	2720.1	3469.9	4762.1	7327.2	11283.3	16948.2	18792.6	19042.5	18296.6	16777.7
72.5°	928.0	1084.9	1493.7	2350.0	4206.1	7613.9	14445.1	16680.9	17143.9	16212.0	14106.1
75°	625.8	678.1	854.4	1205.1	1916.1	3754.6	10417.3	12438.0	13183.9	12244.3	10008.5
77.5°	482.4	515.3	621.9	842.8	1139.2	1420.1	5575.8	7495.7	7881.3	7296.2	5207.7
80°	379.7	404.9	465.0	614.2	807.9	759.5	1900.6	3396.2	3619.0	3035.9	1673.9
82.5°	329.4	339.0	333.2	416.5	536.7	443.7	623.8	1253.5	1383.3	1003.6	546.3
85°	238.3	265.4	277.0	257.7	284.8	224.7	255.7	443.7	488.2	435.9	308.0
87.5°	96.9	143.4	176.3	166.6	104.6	63.9	79.4	129.8	149.2	162.7	100.7
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: P885149
 CATALOG NUMBER: NAV-SB6B-750-U-T3

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4089.8	4089.8	4089.8	4089.8	4089.8	4089.8	4089.8	4089.8	4089.8	4089.8	4089.8
2.5°	4093.7	4107.3	4116.9	4128.6	4136.3	4147.9	4171.2	4184.7	4186.7	4196.4	4194.4
5°	4130.5	4149.9	4171.2	4202.2	4237.1	4266.1	4310.7	4341.7	4353.3	4363.0	4361.0
7.5°	4209.9	4237.1	4275.8	4330.0	4380.4	4419.2	4473.4	4510.2	4547.0	4560.6	4562.5
10°	4328.1	4366.9	4423.0	4496.7	4550.9	4601.3	4657.5	4688.5	4725.3	4740.8	4748.5
12.5°	4475.4	4516.0	4589.7	4692.3	4742.7	4777.6	4797.0	4789.2	4797.0	4810.5	4814.4
15°	4643.9	4688.5	4771.8	4882.2	4917.1	4886.1	4843.5	4804.7	4798.9	4802.8	4816.3
17.5°	4843.5	4876.4	4973.3	5066.3	5041.1	4913.2	4820.2	4758.2	4727.2	4717.5	4731.1
20°	5122.4	5122.4	5201.9	5260.0	5091.4	4874.5	4729.2	4628.4	4564.5	4537.3	4531.5
22.5°	5461.5	5430.5	5480.9	5440.2	5081.8	4766.0	4564.5	4390.1	4293.2	4254.5	4248.7
25°	5891.6	5854.8	5841.2	5589.3	5012.0	4593.5	4266.1	4054.9	3969.7	3948.4	3952.3
27.5°	6540.6	6447.6	6271.3	5670.7	4884.1	4322.3	3917.4	3721.7	3673.3	3675.2	3681.0
30°	7404.7	7218.7	6786.6	5684.3	4674.9	3938.7	3560.9	3421.4	3398.2	3407.9	3440.8
32.5°	8204.8	8028.5	7313.6	5622.3	4353.3	3562.8	3241.2	3148.2	3113.4	3125.0	3140.5
35°	8832.5	8784.1	7801.8	5535.1	3958.1	3210.2	2954.5	2875.1	2807.3	2791.8	2803.4
37.5°	9425.4	9406.0	8168.0	5413.0	3566.7	2960.3	2724.0	2619.3	2520.5	2466.3	2468.2
40°	10076.3	10057.0	8408.2	5225.1	3219.9	2743.3	2516.7	2379.1	2257.1	2158.2	2167.9
42.5°	10808.7	10694.3	8522.5	4955.8	2925.4	2559.3	2348.1	2162.1	2001.3	1910.3	1916.1
45°	11608.8	11351.1	8520.6	4612.9	2677.5	2390.7	2167.9	1904.4	1755.3	1670.0	1666.1
47.5°	12457.4	11978.8	8416.0	4233.2	2437.2	2204.7	1888.9	1687.5	1588.7	1536.3	1524.7
50°	13333.1	12565.9	8237.7	3797.3	2191.2	1993.6	1714.6	1577.0	1501.5	1453.0	1435.6
52.5°	14156.5	13098.6	8022.7	3303.2	1941.3	1788.2	1637.1	1530.5	1451.1	1396.9	1373.6
55°	14921.7	13557.8	7718.5	2797.6	1737.8	1650.6	1600.3	1511.2	1420.1	1356.2	1331.0
57.5°	15601.7	13856.2	7193.5	2322.9	1592.5	1555.7	1561.5	1478.2	1373.6	1319.4	1284.5
60°	16167.5	14075.1	6416.6	1883.1	1474.3	1462.7	1501.5	1416.2	1294.2	1232.2	1205.1
62.5°	16506.5	14071.2	5463.4	1542.2	1373.6	1377.5	1422.0	1338.7	1214.7	1156.6	1139.2
65°	16477.4	13726.4	4417.2	1319.4	1276.7	1280.6	1338.7	1253.5	1148.9	1114.0	1112.1
67.5°	15894.3	12885.5	3388.5	1174.1	1170.2	1187.6	1255.4	1195.4	1108.2	1104.3	1110.1
70°	14315.3	11139.9	2441.1	1057.8	1059.7	1084.9	1174.1	1158.6	1086.9	1094.6	1092.7
72.5°	11479.0	8493.5	1639.0	935.8	937.7	978.4	1096.6	1129.5	1065.6	1168.2	1183.7
75°	7644.9	5296.8	1053.9	806.0	807.9	860.2	1028.7	1073.3	1007.4	1164.4	1174.1
77.5°	3673.3	2381.0	763.3	678.1	678.1	726.5	889.3	960.9	858.3	904.8	829.2
80°	1269.0	895.1	600.6	546.3	534.7	567.7	749.8	833.1	740.1	682.0	639.3
82.5°	499.8	465.0	482.4	424.3	385.5	406.9	583.2	687.8	544.4	492.1	490.2
85°	286.7	302.2	341.0	280.9	222.8	249.9	428.2	494.0	410.7	362.3	370.0
87.5°	77.5	106.6	156.9	145.3	100.7	106.6	203.4	273.2	236.4	182.1	187.9
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)