

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: P884671

Luminaire Tested: **NAV-SB5C-830-U-T4FT**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P884671
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-24)
Test Lab: INNOVATION CENTER
Issue Date: 10/7/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB5C-830-U-T4FT
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(5) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32865 lumens
Efficiency: N/A
Efficacy: 131.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

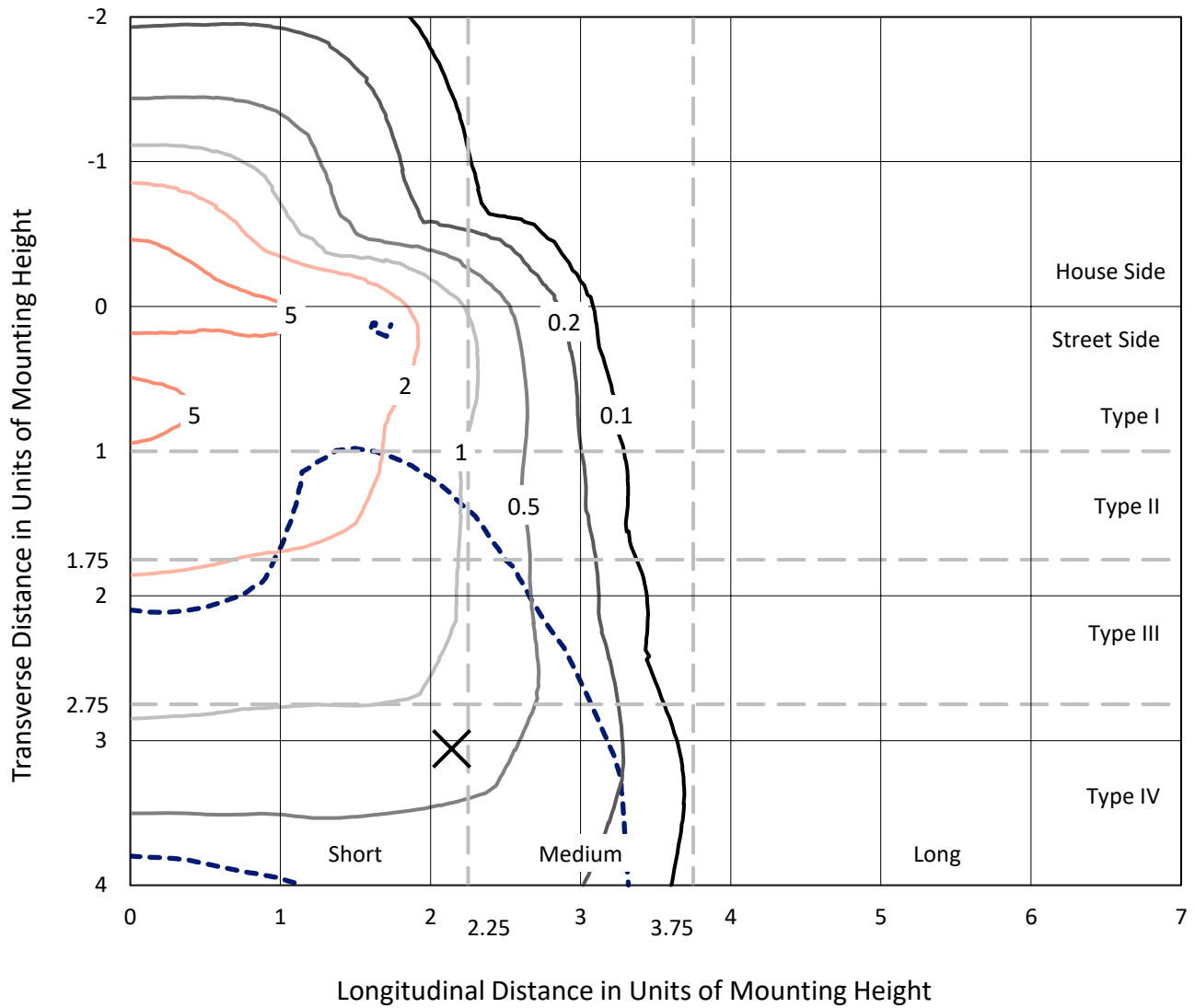
Input Watts (W): 249.5
Input Voltage (V): 120.0
Input Current (Ain): 2.116
Voltage Rise (V): NR
Power Factor: 0.996
Total Harmonic Distortion (THDi): 7.885
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

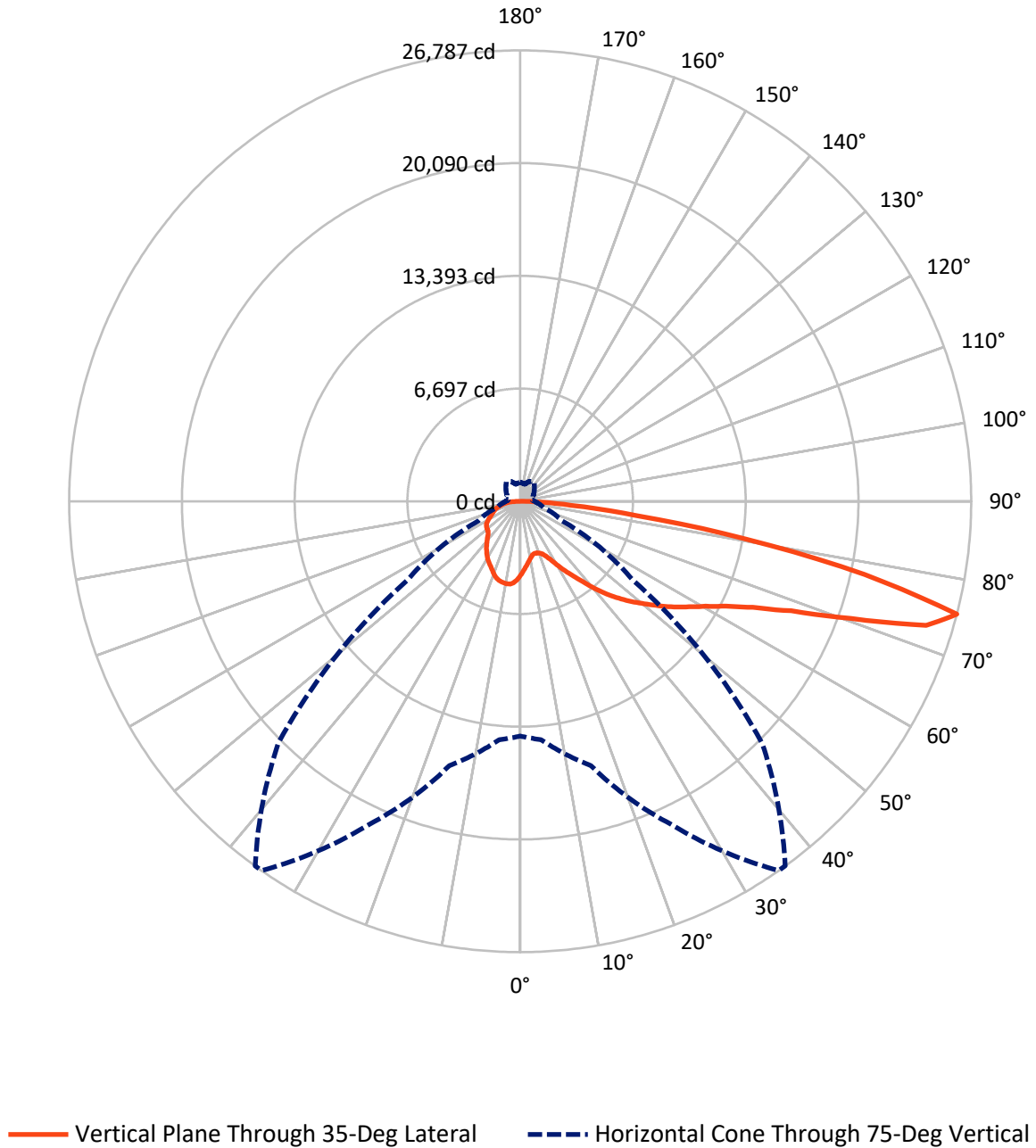
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.7 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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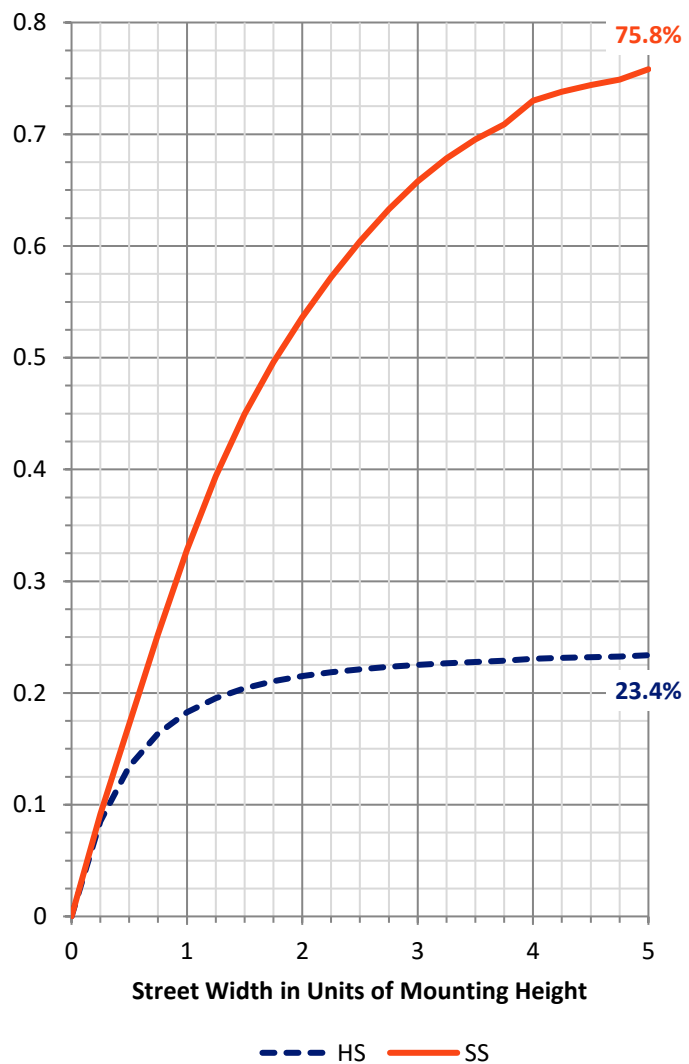
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7821.1	0.0	7821.1
	% Fixture	23.8	0.0	23.8
Street Side	Lumens	25044.0	0.0	25044.0
	% Fixture	76.2	0.0	76.2
Total	Lumens	32865.0	0.0	32865.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	414.6	1.3
10°-20°	1196.0	3.6
20°-30°	2008.4	6.1
30°-40°	3121.4	9.5
40°-50°	4633.0	14.1
50°-60°	6396.1	19.5
60°-70°	7760.0	23.6
70°-80°	6413.0	19.5
80°-90°	922.4	2.8
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°	32865.0	100.0
0°-180°	32865.0	100.0

Coefficient of Utilization



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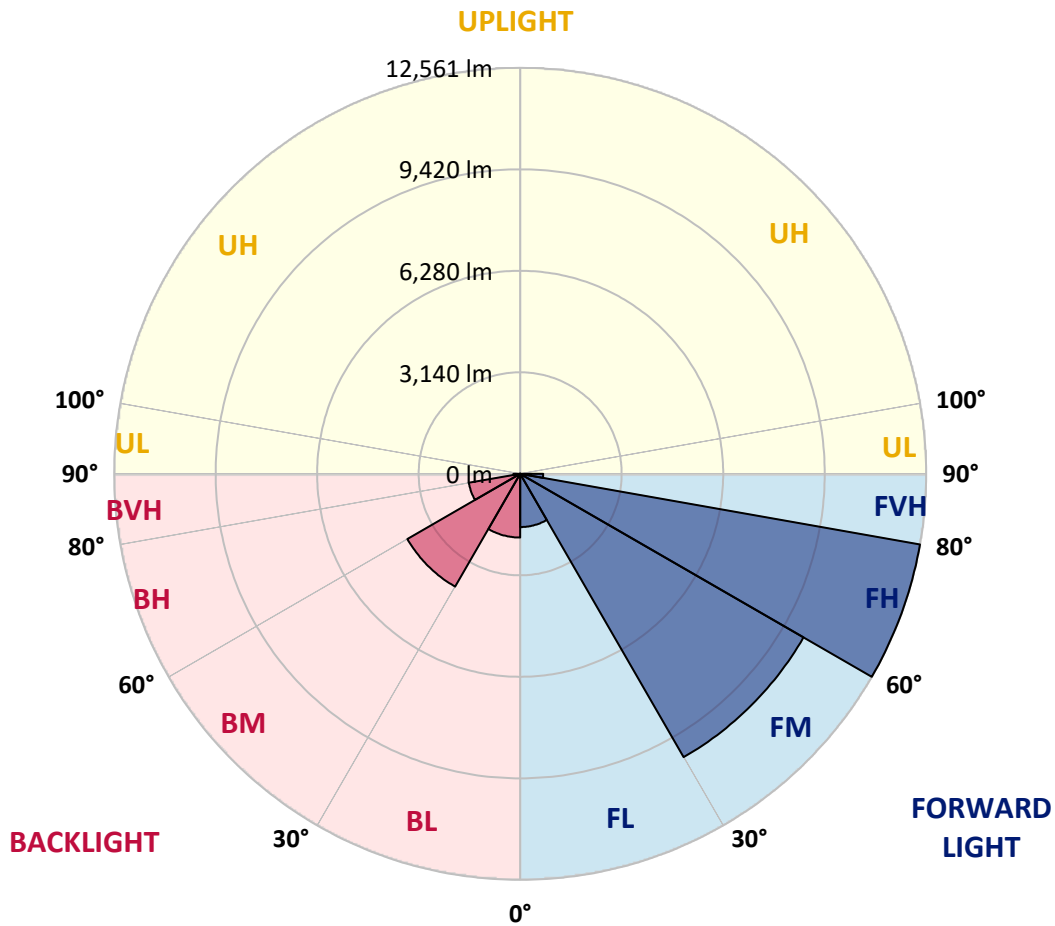
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1648.1	5.0			
FM (30°-60°)	10120.6	30.8			
FH (60°-80°)	12560.5	38.2			G5
FVH (80°-90°)	714.7	2.2			G4/750
BL (0°-30°)	1971.0	6.0	B3/2500		
BM (30°-60°)	4029.9	12.3	B3/5000		
BH (60°-80°)	1612.5	4.9	B3/2500		G3/2500
BVH (80°-90°)	207.7	0.6			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°	85°
0°	4379.5	4379.5	4379.5	4379.5	4379.5	4379.5	4379.5	4379.5	4379.5	4379.5	4379.5
2.5°	4038.4	4063.2	4073.9	4068.6	4095.2	4091.7	4129.0	4175.2	4239.1	4301.3	4391.9
5°	3727.4	3754.1	3777.2	3798.5	3850.0	3866.0	3924.7	4013.5	4130.8	4249.8	4399.0
7.5°	3437.9	3460.9	3496.5	3535.6	3622.6	3638.6	3736.3	3874.9	4038.4	4212.5	4418.6
10°	3201.6	3224.7	3262.0	3306.4	3414.8	3434.3	3558.7	3743.4	3956.6	4176.9	4439.9
12.5°	3100.3	3107.4	3128.7	3173.1	3267.3	3279.7	3416.5	3628.0	3876.7	4150.3	4471.9
15°	3095.0	3109.2	3110.9	3134.0	3212.2	3217.5	3343.7	3553.3	3826.9	4145.0	4519.8
17.5°	3148.3	3158.9	3142.9	3157.1	3222.9	3231.8	3331.3	3517.8	3811.0	4168.1	4601.6
20°	3290.4	3299.3	3251.3	3231.8	3279.7	3286.8	3384.6	3540.9	3826.9	4216.0	4713.5
22.5°	3592.4	3597.8	3480.5	3400.5	3404.1	3407.6	3492.9	3635.1	3889.1	4303.1	4855.6
25°	4063.2	4059.7	3873.1	3718.6	3629.7	3610.2	3667.0	3787.9	3993.9	4418.6	5038.6
27.5°	4614.0	4587.4	4400.8	4169.8	3976.2	3947.8	3935.3	3986.8	4143.2	4571.4	5262.5
30°	5235.8	5211.0	5010.2	4708.2	4439.9	4393.7	4276.4	4249.8	4365.3	4779.2	5573.4
32.5°	5918.1	5902.1	5662.2	5296.2	4937.4	4884.1	4686.8	4615.8	4706.4	5093.7	6006.9
35°	6490.2	6476.0	6277.0	5900.3	5461.5	5395.7	5195.0	5115.0	5161.2	5497.0	6573.7
37.5°	7007.2	7000.1	6829.5	6532.8	6079.8	5999.8	5774.2	5747.5	5738.6	6028.2	7261.2
40°	7486.9	7469.1	7291.4	7135.1	6799.3	6726.5	6527.5	6504.4	6436.9	6682.0	8039.4
42.5°	8018.1	7971.9	7714.3	7641.4	7550.8	7490.4	7371.4	7374.9	7225.7	7419.4	8863.8
45°	8451.6	8425.0	8160.2	8117.6	8215.3	8190.4	8293.5	8320.1	8030.5	8192.2	9720.1
47.5°	8917.1	8892.2	8668.4	8638.2	8902.9	8910.0	9274.2	9283.1	8815.8	8995.3	10578.3
50°	9491.0	9455.4	9233.3	9270.6	9567.4	9594.0	10260.3	10199.8	9538.9	9810.8	11429.3
52.5°	9869.4	9890.7	9842.7	9903.1	10308.2	10333.1	11230.3	11075.7	10254.9	10615.6	12264.3
55°	10148.3	10191.0	10340.2	10478.8	11090.0	11114.8	12145.3	11909.0	10848.3	11361.8	13049.6
57.5°	10507.2	10446.8	10725.7	10995.8	11832.6	11898.3	13035.4	12712.1	11374.2	12004.9	13587.9
60°	11022.4	10979.8	11196.6	11596.3	12664.1	12768.9	13977.0	13435.2	11759.8	12514.8	13692.8
62.5°	12067.1	11960.5	11994.3	12347.8	13712.3	13850.9	15039.5	14065.9	11951.6	12713.8	13131.3
65°	13628.8	13445.8	13275.3	13520.4	15188.7	15325.5	16238.7	14561.6	11880.6	12328.3	11640.7
67.5°	15595.6	15414.4	15204.7	15435.7	17363.4	17471.7	17718.7	14840.5	11320.9	10843.0	9005.9
70°	17217.7	17150.2	17400.7	18351.2	20836.7	20840.3	19616.2	14609.5	9787.7	7687.6	5211.0
72.5°	17002.7	16961.8	18281.9	21220.5	25214.5	25120.3	21412.4	12861.3	6593.2	3468.1	1952.6
75°	13948.6	14213.3	16258.3	21169.0	26786.8	26774.4	20312.6	8176.2	2727.2	1437.3	1009.1
77.5°	7479.8	7899.1	10555.2	15629.3	20911.4	21225.8	14280.8	2860.4	1170.8	920.3	698.2
80°	2439.4	2805.4	4207.1	7957.7	13587.9	13529.3	6120.6	1122.9	801.3	652.0	483.3
82.5°	1035.8	1078.4	1879.7	3757.7	6973.4	6865.0	1949.0	644.9	563.2	445.9	298.5
85°	405.1	453.1	829.7	1737.6	3020.3	2954.6	703.6	319.8	360.7	291.4	177.7
87.5°	133.3	161.7	296.7	595.2	939.9	906.1	172.3	110.2	156.3	133.3	64.0
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°	4379.5	4379.5	4379.5	4379.5	4379.5	4379.5	4379.5	4379.5	4379.5	4379.5	4379.5
2.5°	4416.8	4445.2	4479.0	4528.7	4571.4	4606.9	4644.2	4667.3	4676.2	4702.8	4701.1
5°	4448.8	4511.0	4594.5	4676.2	4756.1	4804.1	4846.7	4868.1	4887.6	4901.8	4905.4
7.5°	4502.1	4582.0	4713.5	4820.1	4887.6	4926.7	4955.1	4948.0	4955.1	4958.7	4964.0
10°	4548.3	4660.2	4816.5	4917.8	4969.3	4971.1	4964.0	4939.1	4926.7	4928.5	4932.0
12.5°	4603.3	4727.7	4896.5	4981.8	4996.0	4956.9	4926.7	4884.1	4868.1	4861.0	4857.4
15°	4678.0	4820.1	4983.6	5015.5	4980.0	4930.3	4878.7	4809.4	4773.9	4745.5	4754.4
17.5°	4768.6	4924.9	5051.1	5028.0	4951.6	4869.8	4786.3	4681.5	4608.7	4578.5	4580.2
20°	4894.7	5035.1	5102.6	5001.3	4885.8	4761.5	4619.3	4491.4	4423.9	4393.7	4390.1
22.5°	5047.5	5182.5	5152.3	4955.1	4791.7	4592.7	4415.0	4320.9	4287.1	4265.8	4269.3
25°	5230.5	5346.0	5187.9	4887.6	4637.1	4368.8	4232.0	4201.8	4185.8	4169.8	4169.8
27.5°	5468.6	5530.8	5214.5	4788.1	4395.5	4130.8	4081.0	4086.3	4081.0	4054.4	4059.7
30°	5783.1	5770.6	5239.4	4626.4	4118.3	3915.8	3919.3	3942.4	3946.0	3928.2	3937.1
32.5°	6197.0	6070.9	5251.8	4416.8	3853.6	3727.4	3731.0	3755.9	3773.6	3743.4	3757.7
35°	6698.0	6420.9	5232.3	4153.8	3649.3	3548.0	3521.4	3528.5	3533.8	3505.4	3524.9
37.5°	7282.6	6813.5	5145.2	3862.5	3480.5	3372.1	3315.3	3267.3	3238.9	3212.2	3230.0
40°	7923.9	7241.7	4985.3	3578.2	3292.2	3185.6	3100.3	3009.7	2913.7	2878.2	2894.2
42.5°	8595.5	7682.3	4791.7	3306.4	3075.4	2988.4	2897.7	2766.3	2622.4	2549.5	2558.4
45°	9292.0	8133.6	4601.6	3038.1	2853.3	2816.0	2711.2	2553.1	2396.7	2304.3	2297.2
47.5°	9974.2	8560.0	4322.6	2768.0	2645.5	2686.3	2604.6	2458.9	2284.8	2139.1	2123.1
50°	10626.2	8959.7	3866.0	2494.4	2476.7	2647.2	2569.1	2359.4	2160.4	1973.9	1957.9
52.5°	11273.0	9283.1	3281.5	2245.7	2386.1	2636.6	2522.9	2291.9	2048.5	1853.1	1831.7
55°	11821.9	9450.1	2718.3	2032.5	2254.6	2546.0	2467.8	2212.0	1890.4	1682.5	1664.7
57.5°	12134.6	9315.1	2249.3	1822.9	2073.4	2396.7	2373.6	2041.4	1702.0	1542.1	1520.8
60°	11999.6	8767.9	1865.5	1639.9	1901.0	2235.0	2210.2	1872.6	1558.1	1407.1	1385.8
62.5°	11255.2	7724.9	1561.7	1480.0	1744.7	2069.8	2046.7	1742.9	1448.0	1302.3	1279.2
65°	9755.7	6284.1	1325.4	1346.7	1586.6	1870.8	1904.6	1634.5	1360.9	1218.8	1195.7
67.5°	7440.7	4551.8	1140.6	1231.2	1432.0	1675.4	1773.1	1556.4	1288.1	1153.1	1131.7
70°	4240.9	2585.1	984.3	1119.3	1295.2	1494.2	1671.8	1494.2	1209.9	1098.0	1083.8
72.5°	1607.9	1186.8	851.0	1007.4	1163.7	1341.4	1559.9	1396.5	1119.3	1035.8	1021.6
75°	858.1	723.1	716.0	875.9	1012.7	1192.1	1419.6	1300.5	1051.8	1094.4	1130.0
77.5°	584.5	511.7	598.7	749.8	847.5	1026.9	1270.3	1154.8	911.4	907.9	836.8
80°	405.1	362.4	486.8	604.1	655.6	863.5	1108.6	991.4	742.6	692.9	662.7
82.5°	243.4	236.3	364.2	451.3	463.7	666.3	918.5	831.5	607.6	529.4	533.0
85°	133.3	140.4	232.7	264.7	270.1	465.5	719.6	643.2	467.3	392.6	396.2
87.5°	37.3	48.0	85.3	104.8	129.7	241.6	428.2	382.0	234.5	163.5	163.5
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)