

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: P885129

Luminaire Tested: **NAV-SB6B-735-U-T3**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P885129
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-735-U-T3
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 3500K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 34202 lumens
Efficiency: N/A
Efficacy: 155.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

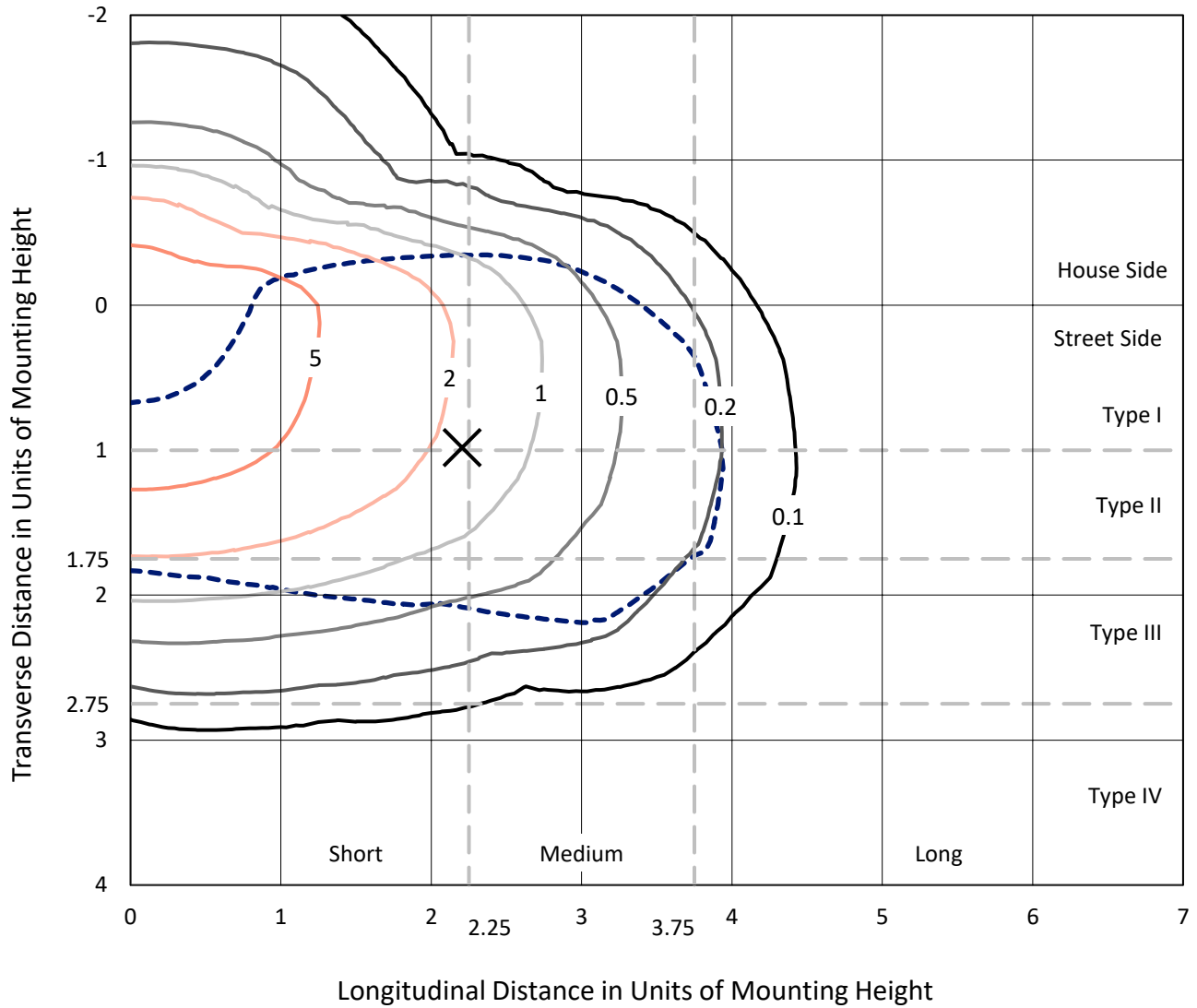
Input Watts (W): 220.4
Input Voltage (V): 120.0
Input Current (Ain): 1.838
Voltage Rise (V): NR
Power Factor: 0.995
Total Harmonic Distortion (THDi): 8.657
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

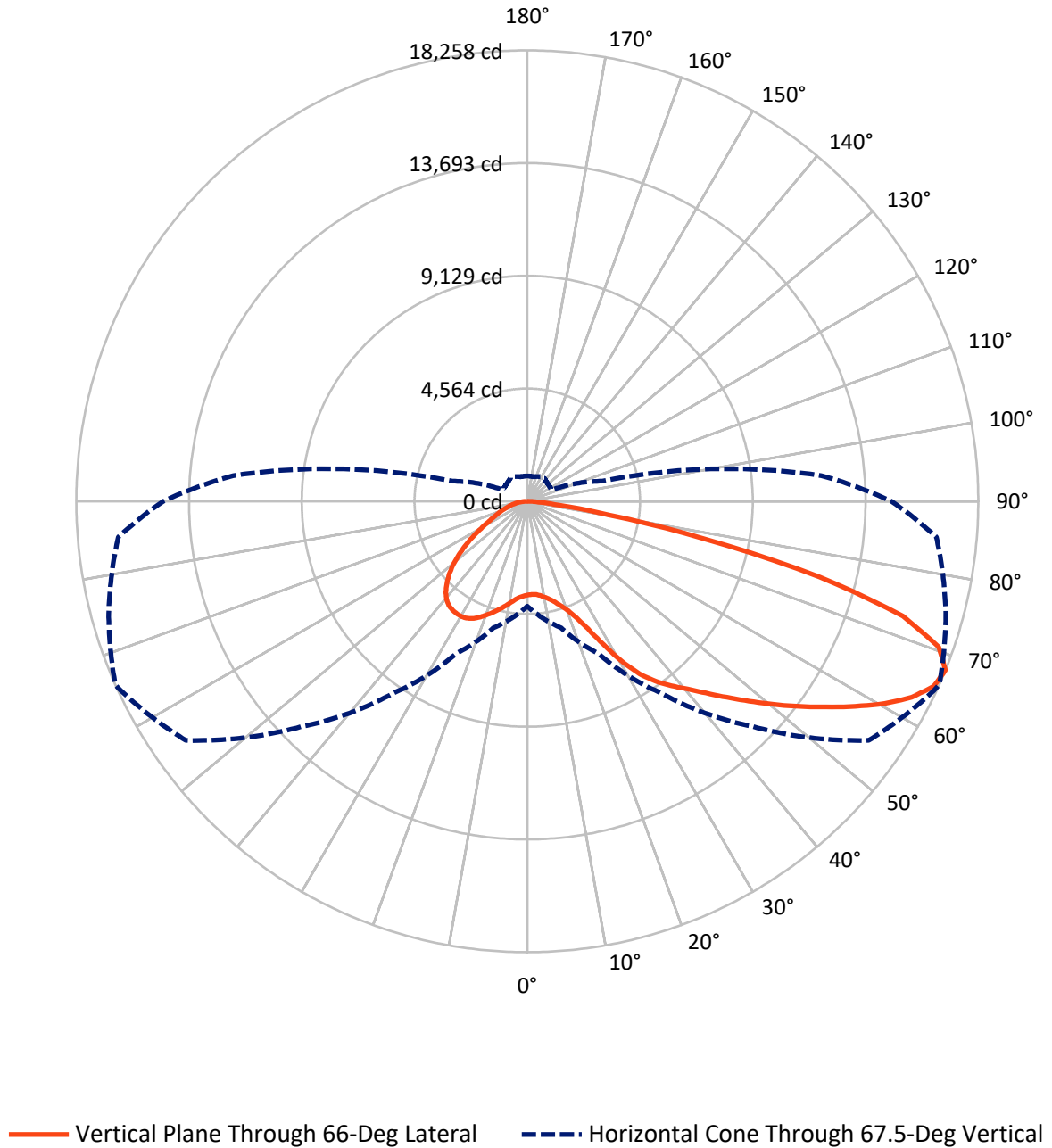
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.6 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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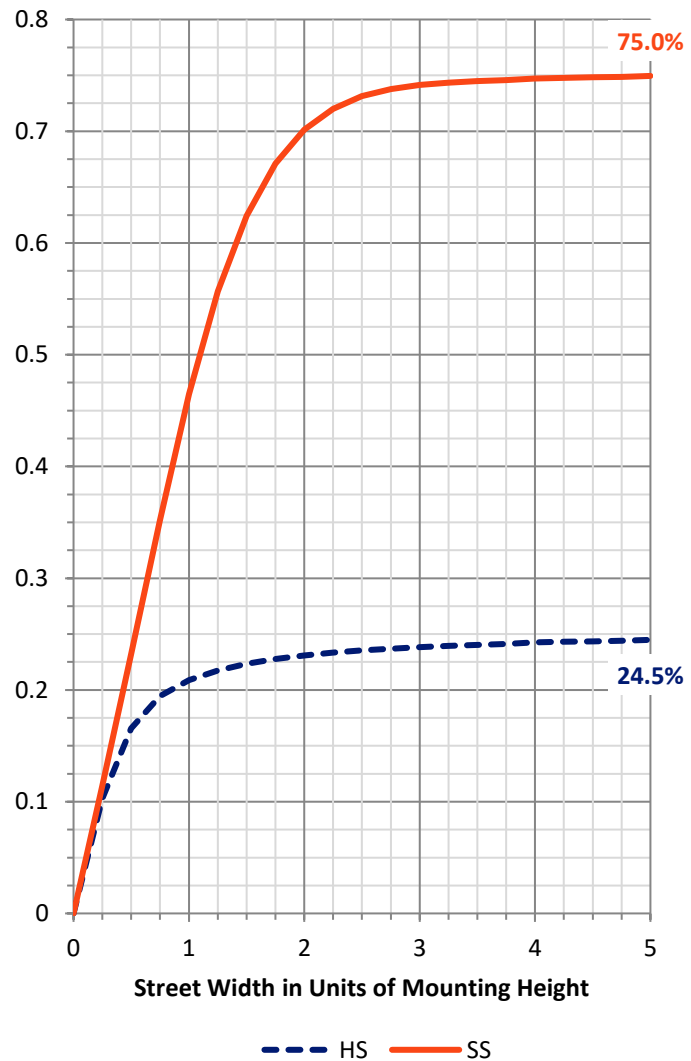
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8504.2	0.0	8504.2
	% Fixture	24.9	0.0	24.9
Street Side	Lumens	25697.8	0.0	25697.8
	% Fixture	75.1	0.0	75.1
Total	Lumens	34202.0	0.0	34202.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	376.1	1.1
10°-20°	1242.6	3.6
20°-30°	2395.1	7.0
30°-40°	4199.4	12.3
40°-50°	6243.1	18.3
50°-60°	7913.8	23.1
60°-70°	7743.4	22.6
70°-80°	3693.7	10.8
80°-90°	394.8	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°	34202.0	100.0
0°-180°	34202.0	100.0

Coefficient of Utilization



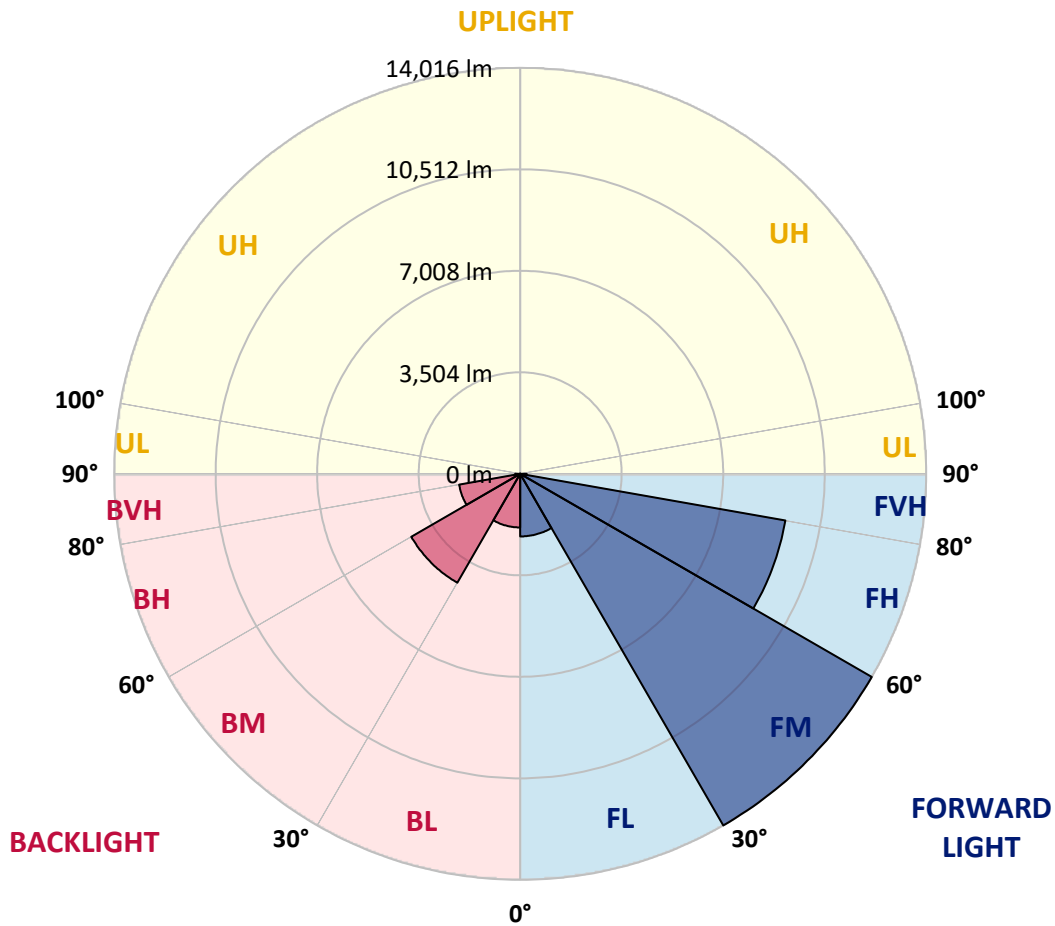
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2161.2	6.3			
FM (30°-60°)	14015.7	41.0			
FH (60°-80°)	9297.0	27.2			G4/12000
FVH (80°-90°)	223.8	0.7			G2/225
BL (0°-30°)	1852.5	5.4	B3/2500		
BM (30°-60°)	4340.7	12.7	B3/5000		
BH (60°-80°)	2140.1	6.3	B3/2500		G3/2500
BVH (80°-90°)	170.9	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



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	3793.5	3793.5	3793.5	3793.5	3793.5	3793.5	3793.5	3793.5	3793.5	3793.5	3793.5
2.5°	3753.9	3775.5	3770.1	3761.1	3759.3	3762.9	3768.3	3773.7	3771.9	3780.9	3795.3
5°	3743.1	3764.7	3762.9	3762.9	3770.1	3784.5	3793.5	3802.4	3793.5	3804.2	3824.0
7.5°	3750.3	3766.5	3773.7	3780.9	3798.8	3825.8	3847.4	3867.1	3856.3	3868.9	3894.1
10°	3842.0	3854.6	3861.7	3861.7	3874.3	3904.9	3926.4	3962.4	3953.4	3973.2	4005.5
12.5°	4009.1	4021.7	4021.7	4014.5	4023.5	4043.2	4050.4	4090.0	4073.8	4106.1	4138.5
15°	4214.0	4239.1	4219.3	4206.8	4210.4	4230.1	4228.3	4258.9	4242.7	4269.7	4298.4
17.5°	4440.4	4472.7	4440.4	4438.6	4431.4	4453.0	4454.7	4481.7	4453.0	4472.7	4492.5
20°	4708.1	4753.0	4726.1	4735.1	4718.9	4727.9	4736.9	4776.4	4731.5	4745.9	4740.5
22.5°	5085.5	5139.4	5110.7	5144.8	5134.0	5126.8	5125.0	5195.1	5125.0	5130.4	5078.3
25°	5635.4	5700.1	5649.7	5696.5	5696.5	5719.8	5746.8	5836.6	5719.8	5685.7	5550.9
27.5°	6447.6	6512.3	6413.5	6442.2	6433.2	6490.7	6462.0	6684.8	6559.0	6503.3	6232.0
30°	7425.2	7540.2	7353.3	7346.1	7337.1	7428.8	7470.1	7617.5	7489.9	7434.2	7107.1
32.5°	8481.8	8602.2	8379.4	8314.7	8280.5	8336.3	8302.1	8420.7	8332.7	8246.4	7842.1
35°	9599.5	9718.1	9506.1	9380.3	9243.7	9126.9	9004.7	9035.3	8952.6	8821.4	8402.7
37.5°	10656.2	10873.6	10649.0	10514.2	10262.6	10034.4	9693.0	9551.0	9473.8	9353.4	8931.1
40°	11732.6	11856.6	11685.9	11570.8	11297.7	10940.1	10393.8	10093.7	9989.5	9872.7	9515.1
42.5°	12525.0	12643.6	12552.0	12472.9	12259.1	11844.0	11137.8	10762.2	10611.2	10480.1	10176.4
45°	13154.0	13242.0	13184.5	13213.3	13121.6	12719.1	11908.7	11479.2	11322.9	11162.9	10923.9
47.5°	13407.4	13500.8	13592.5	13763.2	13919.5	13623.0	12737.1	12255.5	12090.2	11926.6	11691.2
50°	13378.6	13473.9	13739.8	14102.8	14588.0	14489.2	13610.4	13082.1	12929.4	12742.5	12525.0
52.5°	13148.6	13256.4	13597.9	14201.6	14974.3	15137.9	14499.9	13935.7	13791.9	13569.1	13351.7
55°	12544.8	12609.5	13121.6	13977.0	15066.0	15590.7	15371.5	14845.0	14701.2	14390.3	14153.1
57.5°	11425.3	11518.7	12264.5	13371.4	14836.0	15898.0	16137.0	15801.0	15662.6	15215.1	14967.2
60°	9964.3	10113.5	10967.1	12354.3	14250.2	15896.2	16832.4	16740.8	16625.8	16027.4	15768.6
62.5°	8311.1	8483.6	9304.8	10916.7	13225.9	15445.2	17267.3	17527.9	17468.6	16776.7	16446.1
65°	6382.9	6501.5	7319.2	9056.8	11631.9	14476.6	17317.6	18065.2	18076.0	17346.4	16800.1
67.5°	4249.9	4591.3	5301.1	6796.2	9497.1	12893.4	16875.6	18153.2	18257.5	17542.3	16622.2
70°	2073.7	2523.0	3218.4	4417.0	6796.2	10465.7	15720.1	17430.8	17662.7	16970.8	15562.0
72.5°	860.8	1006.3	1385.5	2179.8	3901.3	7062.2	13398.4	15472.1	15901.6	15037.2	13083.9
75°	580.4	628.9	792.5	1117.7	1777.2	3482.6	9662.4	11536.7	12228.5	11357.0	9283.3
77.5°	447.5	478.0	576.8	781.7	1056.6	1317.2	5171.7	6952.6	7310.2	6767.5	4830.3
80°	352.2	375.6	431.3	569.6	749.3	704.4	1762.9	3150.1	3356.8	2815.9	1552.6
82.5°	305.5	314.5	309.1	386.4	497.8	411.5	578.6	1162.7	1283.1	930.8	506.8
85°	221.0	246.2	257.0	239.0	264.2	208.5	237.2	411.5	452.8	404.3	285.7
87.5°	89.8	133.0	163.5	154.5	97.0	59.3	73.7	120.4	138.4	150.9	93.4
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°	3793.5	3793.5	3793.5	3793.5	3793.5	3793.5	3793.5	3793.5	3793.5	3793.5	3793.5
2.5°	3797.0	3809.6	3818.6	3829.4	3836.6	3847.4	3868.9	3881.5	3883.3	3892.3	3890.5
5°	3831.2	3849.2	3868.9	3897.7	3930.0	3957.0	3998.3	4027.1	4037.8	4046.8	4045.0
7.5°	3904.9	3930.0	3966.0	4016.3	4063.0	4098.9	4149.3	4183.4	4217.5	4230.1	4231.9
10°	4014.5	4050.4	4102.5	4170.8	4221.1	4267.9	4320.0	4348.7	4382.9	4397.2	4404.4
12.5°	4151.1	4188.8	4257.1	4352.3	4399.0	4431.4	4449.4	4442.2	4449.4	4461.9	4465.5
15°	4307.4	4348.7	4426.0	4528.4	4560.8	4532.0	4492.5	4456.5	4451.2	4454.7	4467.3
17.5°	4492.5	4523.0	4612.9	4699.1	4675.8	4557.2	4470.9	4413.4	4384.7	4375.7	4388.3
20°	4751.3	4751.3	4824.9	4878.8	4722.5	4521.2	4386.5	4293.0	4233.7	4208.6	4203.2
22.5°	5065.7	5037.0	5083.7	5046.0	4713.5	4420.6	4233.7	4072.0	3982.1	3946.2	3940.8
25°	5464.7	5430.5	5417.9	5184.3	4648.8	4260.7	3957.0	3761.1	3682.0	3662.3	3665.9
27.5°	6066.7	5980.4	5816.9	5259.8	4530.2	4009.1	3633.5	3452.0	3407.1	3408.9	3414.3
30°	6868.1	6695.6	6294.9	5272.4	4336.1	3653.3	3302.9	3173.5	3151.9	3160.9	3191.5
32.5°	7610.3	7446.7	6783.7	5214.9	4037.8	3304.7	3006.4	2920.1	2887.8	2898.6	2912.9
35°	8192.5	8147.6	7236.5	5134.0	3671.3	2977.6	2740.4	2666.7	2603.8	2589.5	2600.2
37.5°	8742.4	8724.4	7576.1	5020.8	3308.3	2745.8	2526.6	2429.5	2337.9	2287.6	2289.4
40°	9346.2	9328.2	7799.0	4846.5	2986.6	2544.5	2334.3	2206.7	2093.5	2001.9	2010.8
42.5°	10025.4	9919.4	7905.0	4596.7	2713.5	2373.8	2178.0	2005.4	1856.3	1771.8	1777.2
45°	10767.6	10528.6	7903.2	4278.6	2483.4	2217.5	2010.8	1766.4	1628.1	1549.0	1545.4
47.5°	11554.7	11110.8	7806.1	3926.4	2260.6	2045.0	1752.1	1565.2	1473.5	1425.0	1414.2
50°	12366.9	11655.3	7640.8	3522.1	2032.4	1849.1	1590.3	1462.8	1392.7	1347.7	1331.6
52.5°	13130.6	12149.5	7441.4	3063.9	1800.6	1658.6	1518.5	1419.6	1345.9	1295.6	1274.1
55°	13840.4	12575.4	7159.2	2594.9	1611.9	1531.0	1484.3	1401.7	1317.2	1257.9	1234.5
57.5°	14471.2	12852.1	6672.2	2154.6	1477.1	1443.0	1448.4	1371.1	1274.1	1223.8	1191.4
60°	14995.9	13055.2	5951.6	1746.7	1367.5	1356.7	1392.7	1313.6	1200.4	1142.9	1117.7
62.5°	15310.4	13051.6	5067.5	1430.4	1274.1	1277.7	1319.0	1241.7	1126.7	1072.8	1056.6
65°	15283.4	12731.7	4097.1	1223.8	1184.2	1187.8	1241.7	1162.7	1065.6	1033.3	1031.5
67.5°	14742.5	11951.8	3142.9	1089.0	1085.4	1101.6	1164.5	1108.7	1027.9	1024.3	1029.7
70°	13278.0	10332.7	2264.2	981.2	983.0	1006.3	1089.0	1074.6	1008.1	1015.3	1013.5
72.5°	10647.2	7878.0	1520.3	867.9	869.7	907.5	1017.1	1047.6	988.3	1083.6	1098.0
75°	7090.9	4913.0	977.6	747.5	749.3	797.9	954.2	995.5	934.4	1080.0	1089.0
77.5°	3407.1	2208.5	708.0	628.9	628.9	673.9	824.8	891.3	796.1	839.2	769.1
80°	1177.0	830.2	557.1	506.8	496.0	526.5	695.4	772.7	686.5	632.5	593.0
82.5°	463.6	431.3	447.5	393.5	357.6	377.4	540.9	637.9	505.0	456.4	454.6
85°	266.0	280.3	316.3	260.6	206.7	231.8	397.1	458.2	381.0	336.0	343.2
87.5°	71.9	98.8	145.6	134.8	93.4	98.8	188.7	253.4	219.2	168.9	174.3
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)